



BALLAST CATALOG

AGE REDUCED LAMP TYPE HIGH OUTPUT LOW WATTAGE RESIDENTIAL T12 HO WAREHOUSE MAGNETIC CIRCUIT ELECTRONIC HI LEAD LENGTH T5 LE
NDARD T5 HO 2D CASE HID SIGN CIRCLINE T8 COMPACT BALLASTS TRANSFORMER VOLUME 1.2 KTEB BAY KHz AMPS PULSE
AL HALIDE EFFICIENCY CURRENT RECESSED 1945 VOLTAGE INDUSTRIAL QUICK SHIP T8 HO COMMERCIAL PROGRAM START INPUT VOLTS T12 WIRI

ABOUT KEYSTONE



ACROSS THE USA:

Nationwide sales
network and multiple
fulfillment centers



PREFERRED PARTNER PROGRAMS:

Value-added programs
to benefit Keystone
distributors



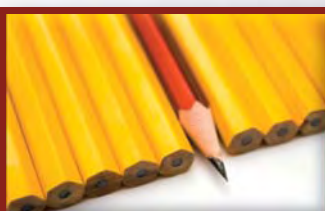
ENERGY EFFICIENCY:

Proven leadership
in energy efficient
products



A HIGHER LEVEL OF SERVICE:

Truly personal service
and exceptional
customer satisfaction



INNOVATION:

Cutting-edge products
through technology
leadership



AWARD-WINNING RELIABILITY:

Recognition for
superior performance
and dependability



Contact us today to see why the most respected
fixture manufacturers and the nation's premier
electrical distributors choose Keystone as

THE RIGHT CHOICE IN BALLASTS!



WE'RE HERE FOR YOU!

Customers have relied on Keystone's quality for more than 65 years.

After returning from the second World War, Harold Fox dreamed of starting his own manufacturing company. Looking for the perfect product to assemble, Harold decided to consult some close friends in the hardware and electrical trade. He asked them if there were any products that were always in high demand but short supply. The resounding answer was lighting ballasts. So the enterprising young businessman bought a sample ballast from another manufacturer and put his own label on it. He took this "prototype" around to hardware and electrical stores in Philadelphia and they unanimously expressed strong interest in the product. In fact, one customer even gave Harold a blanket purchase order with a cash advance payment so that Harold could begin producing his ballasts. And so Keystone was formed, with the singular purpose of manufacturing ballasts and transformers in Philadelphia. Shortly thereafter, Harold's brother-in-law, Marvin Spielman, joined the budding manufacturing company.

Over 65 years later, Keystone continues to evolve and grow with the changing demands of the lighting business. Now in its third generation of family leadership, Keystone's line has grown substantially beyond Harold's original core and coil product to offer magnetic and electronic ballasts, transformers, and drivers for all lighting types and categories. Throughout the years, Keystone has shipped millions of ballasts to North America's leading lighting fixture manufacturers and premier electrical distributors. We continue on a path of leadership and quality, but our legacy of truly personal service remains as strong today as when Marvin and Harold made their first sale in 1945.



KEYSTONE
BALLAST COMPANY



1945

1985

2001

NOW



KEYSTONE'S GREEN INITIATIVES

At Keystone Technologies, our company mission is to develop products with a focus on lasting quality, reliability, and superior energy efficiency.

RoHS
Compliant

Energy Star Rated: Keystone Technologies is the industry leader in ballasts for Energy Star® rated lighting fixtures, with more products exceeding the Energy Star® requirements than any other ballast manufacturer.

NEMA
Premium

RoHS Compliant: All Keystone electronic ballasts, LED drivers, electronic sign ballasts, and transformers produced after January 1, 2010 are RoHS compliant, meaning they are made from environmentally-friendly components.

CEE
Qualified

NEMA Premium: Keystone's high efficiency T8 ballasts earned the prestigious NEMA Premium designation by exceeding the standards set forth by the Consortium for Energy Efficiency (CEE). They are an excellent source to help meet green or sustainable lighting objectives and for achieving LEED, ASHRAE, or other energy certifications.

CEE Qualified - The Consortium for Energy Efficiency is the premiere agency for recognizing the most efficient electrical products. Lighting ballasts qualified by CEE are recognized as the most energy efficient products and automatically qualify for utility rebate programs throughout the United States. For more information visit www.cee1.org.



EISA Certified: Keystone's new lineup of pulse start metal halide ballasts exceeds the energy efficiency standards established by the Energy Independence and Security Act of 2007 (EISA).

2 Company Info

3 Quick Reference Guide

1-1 Electronic Ballasts

1-2 | T12

1-6 | T12HO

1-8 | T8

1-18 | T8 Lamps Over 48"

1-22 | T5

1-26 | T5HO

1-28 | PLL

1-34 | Circline

1-36 | 2D

2-1 Compact Fluorescent Ballasts

3-1 HID Ballasts

3-2 | Pulse Start Metal Halide

3-6 | Metal Halide

3-10 | High Pressure Sodium

3-14 | F-Can

3-15 | Accessories

3-17 | Wiring Schematics

3-18 | HID Kits

4-1 Sign Ballasts

4-2 | Magnetic Sign Ballasts

4-4 | Electronic Sign Ballasts

5-1 Transformers

5-2 | Low Voltage Transformers

6-1 LED Drivers

6-2 | Constant Current

6-4 | Constant Voltage

7-1 Emergency Ballasts

8-1 References

8-1 | Explanation of Approvals

8-2 | Cross Reference Guide

8-5 | Obsolete Product Guide

8-5 | Date Code

8-6 | Glossary

8-8 | Ordering Information

8-8 | Custom Orders

8-9 | Index

8-12 | Warranty

COMPANY INFO



"We've installed thousands and thousands of Keystone ballasts and have never had any issues with their products."

- *Electrical Contractor, New York City*

"I have been pleasantly surprised by Keystone's products. We have literally no returns due to quality. I can't say the same with my experience from the other big brand ballast companies."

- *Owner, Electrical Wholesaler with 3 Branches, Southeast*

"We have never had any service hiccups. In fact, service from Keystone has been exceptional. It is indeed a pleasure to have a supplier such as Keystone."

- *Purchasing Manager, Major OEM Fixture Manufacturer, Georgia*

"I have complete confidence in Keystone's quality. Our engineering team tests all products to ensure quality and conformance, and Keystone regularly meets all of our stringent performance standards."

- *Director of Engineering, Mid-Market OEM Fixture Manufacturer, Midwest*

"It's amazing how Keystone's product line continues to grow. They have steadily become one of our most strategic suppliers."

- *Owner, Small OEM Fixture Manufacturer, West Coast*

"I enjoy dealing with Keystone because they give us the service we need. We're a small business and it's nice to be remembered by someone who cares. This is the way business ought to be!"

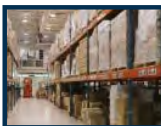
- *Owner, Lighting Showroom, Ohio*



COMMON APPLICATIONS OF KEYSTONE PRODUCTS:



SIGNAGE



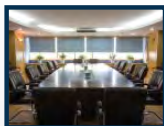
WAREHOUSES



EDUCATIONAL FACILITIES



ROADWAYS



CORPORATE ENVIRONMENTS



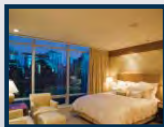
INDUSTRIAL SETTINGS



DISPLAY & RETAIL LIGHTING



RESIDENTIAL



HOSPITALITY



PARKING FACILITIES

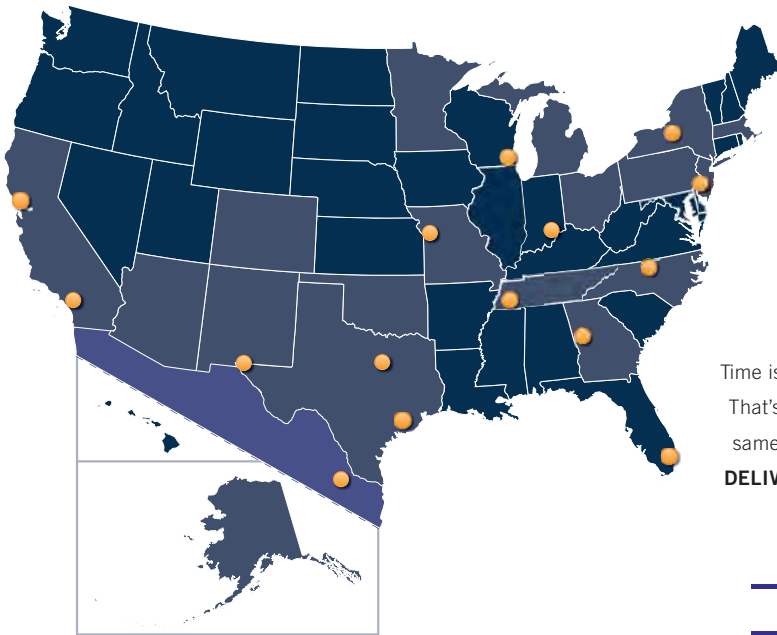


MANUFACTURING PLANTS



SPORTING VENUES

QUICK REFERENCE GUIDE



Time is money when it comes to servicing your customers. That's why Keystone pledges to ship most items the very same day you place your order. In fact, most orders are **DELIVERED NEXT DAY** thanks to Keystone's strategically located, nationwide fulfillment centers.

FULFILLMENT CENTERS

CATEGORY	PRIMARY LAMP TYPE	NO. OF LAMPS	INPUT VOLTS	CATALOG NUMBER	DESCRIPTION	QUICK SHIP?	PAGE NUMBER
ELECTRONIC							
T12	F20T12	1	120	KTEB-120-1-TP	1 Lite F20T12, Normal Power Factor	●	1-2, 1-8, 1-9
		2	120	KTEB-120-1-TP-EMI	1 Lite F20T12, FCC Class B, Normal Power Factor	●	1-2, 1-8, 1-9
	F40T12	1	120	KTEB-220-1-TP-EMI	2 Lite F20T12, FCC Class B, Normal Power Factor	●	1-2, 1-8, 1-9
		1	120	KTEB-140-1-TP-EMI	1 Lite F40T12, Class B, Normal Power Factor	●	1-2
		2	120	KTEB-240-1-TP-PIC	2 Lite F40T12, F40T12ES, and F34T12 High Power Factor	●	1-2
		2	120-277	KTEB-240-UV-TP-PIC	2 Lite F40T12, F40T12ES, and F34T12 High Power Factor	●	1-2
	F96T12	1 or 2	120	KTEB-275-1-TP-PIC-SL	2 Lite F96T12 and F96T12ES	●	1-4
		1 or 2	120-277	KTEB-275-UV-TP-PIC	2 Lite F96T12 and F96T12ES	●	1-4
	F96T12HO	1 or 2	120	KTEB-2110-1-TP-PIC	2 Lite F96T12HO and F96T12HOES	●	1-6
		1 or 2	120-277	KTEB-2110-UV-TP-PIC	2 Lite F96T12HO and F96T12HOES	●	1-6
T8 Instant Start High Efficiency	F32T8	1	120-277	KTEB-132-UV-IS-N-P	1 Lite F17/25/32 T8, NEMA Premium, Standard Output	●	1-8, 1-10, 1-11, 1-12, 1-13
				KTEB-132-UV-IS-L-P	1 Lite F17/25/32 T8, NEMA Premium, Reduced Output	●	1-8, 1-10, 1-11, 1-12, 1-13
		2	120-277	KTEB-232-UV-IS-N-P	2 Lite F17/25/32 T8, NEMA Premium, Standard Output	●	1-8, 1-9, 1-10, 1-11, 1-12, 1-13, 1-14, 1-18
				KTEB-232-UV-IS-L-P	2 Lite F17/25/32 T8, NEMA Premium, Reduced Output	●	1-8, 1-9, 1-10, 1-11, 1-12, 1-13, 1-14, 1-18
				KTEB-232-UV-IS-H-P	2 Lite F17/25/32 T8, NEMA Premium, High Output	●	1-8, 1-9, 1-10, 1-11, 1-12, 1-13, 1-14, 1-18
				KTEB-332-UV-IS-N-P	3 Lite F17/25/32 T8, NEMA Premium, Standard Output	●	1-9, 1-10, 1-11, 1-12, 1-13, 1-14, 1-18
		3	120-277	KTEB-332-UV-IS-L-P	3 Lite F17/25/32 T8, NEMA Premium, Reduced Output	●	1-9, 1-10, 1-11, 1-12, 1-13, 1-14, 1-18
				KTEB-332-UV-IS-H-P	3 Lite F17/25/32 T8, NEMA Premium, High Output	●	1-9, 1-10, 1-11, 1-12, 1-13, 1-14, 1-18
				KTEB-432-UV-IS-N-P	4 Lite F17/25/32 T8, NEMA Premium, Standard Output	●	1-9, 1-10, 1-11, 1-12, 1-13, 1-14, 1-18
		4	120-277	KTEB-432-UV-IS-L-P	4 Lite F17/25/32 T8, NEMA Premium, Reduced Output	●	1-9, 1-10, 1-11, 1-12, 1-13, 1-14, 1-18
				KTEB-432-UV-IS-H-P	4 Lite F17/25/32 T8, NEMA Premium, High Output	●	1-9, 1-10, 1-11, 1-12, 1-13, 1-14, 1-18

Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

QUICK REFERENCE GUIDE

ELECTRONIC

CATEGORY	PRIMARY LAMP TYPE	NO. OF LAMPS	INPUT VOLTS	CATALOG NUMBER	DESCRIPTION	QUICK SHIP?	PAGE NUMBER
T8 Program Start High Efficiency	F32T8	1	120-277	KTEB-132-UV-PS-N-P	1 Lite F17/25/32 T8, NEMA Premium, Standard Output	●	1-8, 1-10, 1-11, 1-12, 1-13
		2	120-277	KTEB-232-UV-PS-N-P	2 Lite F17/25/32 T8, NEMA Premium, Standard Output	●	1-8, 1-9, 1-10, 1-11, 1-12, 1-13, 1-14, 1-18
		3	120-277	KTEB-332-UV-PS-N-P	3 Lite F17/25/32 T8, NEMA Premium, Standard Output	●	1-9, 1-10, 1-11, 1-12, 1-13, 1-14, 1-18
		4	120-277	KTEB-432-UV-PS-N-P	4 Lite F17/25/32 T8, NEMA Premium, Standard Output	●	1-9, 1-10, 1-11, 1-12, 1-13, 1-14, 1-18
T8 Instant Start Standard	F32T8	2	120	KTEB-232LBF-1-TP-PIC-EV	2 Lite F17/25/32 T8	●	1-8, 1-9, 1-10, 1-13, 1-14, 1-18
		4	120	KTEB-432LBF-1-TP-PIC	4 Lite F17/25/32 T8	●	1-9, 1-10, 1-11, 1-14, 1-18
	F59T8	2	120-277	KTEB-259-UV-TP-PIC	2 Lite F96T8	●	1-20
	F86T8HO	2	120-277	KTEB-286HO-UV-IS-N	2 Lite F96T8HO	●	1-20
T8 Residential	F32T8	1	120	KTEB-132-1-TP-EMI	1 Lite F17/25/32 T8, Normal Power Factor	●	1-8, 1-10, 1-13
		2	120	KTEB-232RIS-1-TP-SL	2 Lite F17/25/32 T8, Normal Power Factor	●	1-8, 1-9, 1-10, 1-13, 1-14, 1-18
		4	120	KTEB-432RIS-1-TP	4 Lite F17/25/32 T8, Normal Power Factor	●	1-9, 1-10, 1-11, 1-14
T5HO	F24T5HO	2	120-277	KTEB-224HO-UV-PS-SL	2 Lite F24T5HO Program Start, Rated, 9" Case	●	1-26, 1-28, 1-30
	F39T5HO	2	120-277	KTEB-239HO-UV-PS-SL	2 Lite F39T5HO Program Start, 90°C Rated, 9" Case	●	1-26, 1-28, 1-30, 1-34
	F54T5HO	2	120-277	KTEB-254HO-UV-TP-PS	2 Lite F54T5HO Program Start, Rated	●	1-32
				KTEB-254HO-UV-PS-SL	2 Lite F54T5HO Program Start, Rated, 9" Case	●	1-32
		4	120-277	KTEB-454HO-UV-PS-SL	4 Lite F54T5HO Program Start, 90°C Rated, 9" Case	●	1-18, 1-30, 1-32
				KTEB-454HO-UV-TP-PS	4 Lite F54T5HO Program Start, Rated	●	1-26, 1-28, 1-32
T5	F8T5	1	120	KTEB-108-TP-FC	1 Lite F8T5 Undercabinet Electronic Ballast	●	1-22, 2-2
		2	120	KTEB-208-1-TP-SL-MB	2 Lite F8T5 Undercabinet Electronic Ballast	●	1-22
	F13T5	1	120	KTEB-113-1-TP-SL-MB	1 Lite F13T5 Undercabinet Electronic Ballast	●	1-22
		2	120	KTEB-213-1-TP-SL-MB	2 Lite F13T5 Undercabinet Electronic Ballast	●	1-22
	F14T5	1	120	KTEB-114-1-TP-FC	1 Lite F13/14T5 Undercabinet Electronic Ballast	●	1-22, 1-24, 2-2
	F28T5	2	120-277	KTEB-228HE-UV-PS-SL	2 Lite F14/21/28 T5 Program Start, 90°C Rated, 9" Case	●	1-22, 1-24
				KTEB-228HE-UV-TP-PS	2 Lite F14/21/28 T5 Program Start, 90°C Rated		1-22, 1-24
F35T5	1	120	KTEB-135HE-1-TP	1 Lite F35T5HE Electronic Ballast	●	1-24	
Circline	FC22T9	1	120	KTEB-1C22-1-TP-WS-LC	1 Lite 22W, 6" Case, with Sockets	●	1-34
				KTEB-1C22-1-TP-WS	1 Lite 22W, Small Case, with Sockets	●	1-34
	FC32T9	1	120	KTEB-140-1-TP-EMI-WS	1 Lite 32 or 40W, with Sockets	●	1-34
	FC40T9	1	120	KTEB-140-1-TP-EMI-WS	1 Lite 32 or 40W, with Sockets	●	1-34
	FC22T9 & FC32T9	2	120	KTEB-2C72-1-TP-WS	2 Lite 22W & 32W or 32 & 40W, with Sockets	●	1-34
	FC32T9 & FC40T9	2	120	KTEB-2C72-1-TP-WS	2 Lite 22W & 32W or 32 & 40W, with Sockets	●	1-34

CFL

CATEGORY	PRIMARY LAMP TYPE	NO. OF LAMPS	INPUT VOLTS	CATALOG NUMBER	DESCRIPTION	QUICK SHIP?	PAGE NUMBER
Commercial Grade	13W CFL	1 or 2	120-277	KTEB-213-UV-TP-PSD	1 or 2 Lite 13W 4-Pin CFL, Program Start	●	2-2
				KTEB-213-UV-TP-PIC-DW	1 or 2 Lite 13W 4-Pin CFL, Rapid Start	●	2-2, 2-4
				KTEB-213-UV-TP-PIC-DW-KIT	1 or 2 Lite 13W 4-Pin CFL, Kit includes Wires/Stud Plate	●	2-2, 2-4
	18W CFL	1 or 2	120-277	KTEB-218-UV-TP-PSD	1 or 2 Lite 18W 4-Pin CFL, Program Start	●	1-36, 2-4
				KTEB-218-UV-TP-PIC-DW	1 or 2 Lite 18W 4-Pin CFL, Rapid Start	●	2-4
				KTEB-218-UV-TP-PIC-DW-KIT	1 or 2 Lite 18W 4-Pin CFL, Kit includes Wires/Stud Plate	●	2-4
	26W CFL	1 or 2	120-277	KTEB-226-UV-TP-PSD	1 or 2 Lite 26W, 1x 32W or 40W 4-Pin CFL, Program Start	●	1-28, 1-36, 2-4, 2-6
				KTEB-226-UV-TP-PIC-DW	1 or 2 Lite 26W, 1x 32W or 40W 4-Pin CFL, Rapid Start	●	1-34, 2-4, 2-6
				KTEB-226-UV-TP-PIC-DW-KIT	1 or 2 Lite 26W, 1x 32W or 40W 4-Pin CFL, Kit includes Wires/Stud Plate	●	1-34, 2-4, 2-6
	42W CFL	1 or 2	120-277	KTEB-242T-UV-TP-PSD	1 or 2 Lite 32W or 42W 4-Pin CFL, Program Start	●	1-28, 1-30, 1-34, 1-36, 2-4, 2-6, 2-8
				KTEB-242T-UV-TP-PIC-DW	1 or 2 Lite 32W or 42W 4-Pin CFL, Rapid Start	●	2-4, 2-6, 2-8
				KTEB-242T-UV-TP-PIC-DW-KIT	1 or 2 Lite 32W or 42W 4-Pin CFL, Kit includes Wires/Stud Plate	●	2-4, 2-6, 2-8

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QUICK REFERENCE GUIDE

CFL (continued)

CATEGORY	PRIMARY LAMP TYPE	NO. OF LAMPS	INPUT VOLTS	CATALOG NUMBER	DESCRIPTION	QUICK SHIP?	PAGE NUMBER
Residential Grade	13W CFL	1	120	KTEB-113-1-TP-xx*	1 Lite 13W 4-Pin CFL		2-2
		2	120	KTEB-213-1-TP-xx*	2 Lite 13W 4-Pin CFL		2-2
	18W CFL	1	120	KTEB-118-1-TP-xx*	1 Lite 18W 4-Pin CFL		2-4
		2	120	KTEB-218-1-TP-xx*	2 Lite 18W 4-Pin CFL		2-4
	26W CFL	1	120	KTEB-126-1-TP-xx*	1 Lite 26W 4-Pin CFL		2-4
		2	120	KTEB-226-1-TP-xx*	2 Lite 26W 4-Pin CFL		2-6
	42W CFL	1	120	KTEB-142T-1-TP-xx*	1 Lite 42W 4-Pin CFL		1-30, 1-36, 2-4, 2-6, 2-8

* xx denotes several case styles available.

HID

CATEGORY	LAMP WATTS	NO. OF TAPS	INPUT VOLTS	CATALOG NUMBER	DESCRIPTION	QUICK SHIP?	PAGE NUMBER
Metal Halide	50	Quad	120/208/240/277	MH-50X-Q-KIT	50W (M110) Metal Halide Ballast Kit	●	3-6
	70	Quad	120/208/240/277	MH-70X-Q-KIT	70W (M98) Metal Halide Ballast Kit	●	3-6
	100	Quad	120/208/240/277	MH-100X-Q-KIT	100W (M90) Metal Halide Ballast Kit	●	3-6
	150	Quad	120/208/240/277	MH-150X-Q-KIT	150W (M102) Metal Halide Ballast Kit	●	3-6
	175	Quad	120/208/240/277	MH-175A-Q-KIT	175W (M57) Metal Halide Ballast Kit	●	3-6
		5-Tap	120/208/240/277/480	MH-175A-P-KIT	175W (M57) Metal Halide Ballast Kit	●	3-6
	250	Single	480	MH-250A-4-KIT	250W (M58) Metal Halide Ballast Kit	●	3-8
		Quad	120/208/240/277	MH-250A-Q-KIT	250W (M58) Metal Halide Ballast Kit	●	3-8
		5-Tap	120/208/240/277/480	MH-250A-P-KIT	250W (M58) Metal Halide Ballast Kit	●	3-6
	400	Single	480	MH-400A-4-KIT	400W (M59) Metal Halide Ballast Kit	●	3-8
		Quad	120/208/240/277	MH-400A-Q-KIT	400W (M59) Metal Halide Ballast Kit	●	3-8
		5-Tap	120/208/240/277/480	MH-400A-P-KIT	400W (M59) Metal Halide Ballast Kit	●	3-8
	1000	Single	480	MH-1000A-4-KIT	1000W (M47) Metal Halide Ballast Kit	●	3-8
		Quad	120/208/240/277	MH-1000A-Q-KIT	1000W (M47) Metal Halide Ballast Kit	●	3-8
		5-Tap	120/208/240/277/480	MH-1000A-P-KIT	1000W (M47) Metal Halide Ballast Kit	●	3-8
	1500	Quad	120/208/240/277	MH-1500A-Q-KIT	1500W (M48) Metal Halide Ballast Kit	●	3-8
		5-Tap	120/208/240/277/480	MH-1500A-P-KIT	1500W (M48) Metal Halide Ballast Kit	●	3-8
Pulse Start Metal Halide	175	Quad	120/208/240/277	MPS-175A-Q-KIT	175W Pulse Start (M137) Metal Halide Ballast Kit, EISA Compliant 	●	3-2
		5-Tap	120/208/240/277/480	MPS-175A-P-KIT	175W Pulse Start (M137) Metal Halide Ballast Kit, EISA Compliant 	●	3-2
	200	Quad	120/208/240/277	MPS-200A-Q-KIT	200W Pulse Start (M136) Metal Halide Ballast Kit, EISA Compliant 	●	3-2
	250	Quad	120/208/240/277	MPS-250A-Q-KIT	250W Pulse Start (M138) Metal Halide Ballast Kit, EISA Compliant 	●	3-2
		5-Tap	120/208/240/277/480	MPS-250A-P-KIT	250W Pulse Start (M138) Metal Halide Ballast Kit, EISA Compliant 	●	3-2
	320	Quad	120/208/240/277	MPS-320A-Q-KIT	320W Pulse Start (M132) Metal Halide Ballast Kit, EISA Compliant 	●	3-2
		5-Tap	120/208/240/277/480	MPS-320A-P-KIT	320W Pulse Start (M132) Metal Halide Ballast Kit, EISA Compliant 	●	3-2
	350	Quad	120/208/240/277	MPS-350A-Q-KIT	350W Pulse Start (M131) Metal Halide Ballast Kit, EISA Compliant 	●	3-2
		5-Tap	120/208/240/277/480	MPS-350A-P-KIT	350W Pulse Start (M131) Metal Halide Ballast Kit, EISA Compliant 	●	3-2
	400	Single	480	MPS-400A-4-KIT	400W Pulse Start (M135) Metal Halide Ballast Kit, EISA Compliant 	●	3-4
		Quad	120/208/240/277	MPS-400A-Q-KIT	400W Pulse Start (M135) Metal Halide Ballast Kit, EISA Compliant 	●	3-4
		5-Tap	120/208/240/277/480	MPS-400A-P-KIT	400W Pulse Start (M135) Metal Halide Ballast Kit, EISA Compliant 	●	3-4
	450	Quad	120/208/240/277	MPS-450A-Q-KIT	450W Pulse Start (M144) Metal Halide Ballast Kit, EISA Compliant 	●	3-4
		5-Tap	120/208/240/277/480	MPS-450A-P-KIT	450W Pulse Start (M144) Metal Halide Ballast Kit, EISA Compliant 	●	3-4
	750	Quad	120/208/240/277	MPS-750A-Q-KIT	750W Pulse Start (M149) Metal Halide Ballast Kit	●	3-4
	1000	Quad	120/208/240/277	MPS-1000A-Q-KIT	1000W Pulse Start (M141) Metal Halide Ballast Kit	●	3-4

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QUICK REFERENCE GUIDE

HID (continued)

CATEGORY	LAMP WATTS	NO. OF TAPS	INPUT VOLTS	CATALOG NUMBER	DESCRIPTION	QUICK SHIP?	PAGE NUMBER
High Pressure Sodium	35	Single	120	HPS-35R-1-KIT	35W (S76) High Pressure Sodium Ballast Kit	●	3-10
	50	Single	120	HPS-50R-1-KIT	50W (S68) High Pressure Sodium Ballast Kit	●	3-10
	70	Single	120	HPS-70R-1-KIT	70W (S62) High Pressure Sodium Ballast Kit	●	3-10
		Quad	120/208/240/277	HPS-70X-Q-KIT	70W (S62) High Pressure Sodium Ballast Kit	●	3-10
	100	Single	120	HPS-100R-1-KIT	100W (S54) High Pressure Sodium Ballast Kit	●	3-10
		Quad	120/208/240/277	HPS-100X-Q-KIT	100W (S54) High Pressure Sodium Ballast Kit	●	3-10
	150	Single	120	HPS-150R-1-KIT	150W (S55) High Pressure Sodium Ballast Kit	●	3-10
		Quad	120/208/240/277	HPS-150X-Q-KIT	150W (S55) High Pressure Sodium Ballast Kit	●	3-10
	250	Quad	120/208/240/277	HPS-250A-Q-KIT	250W (S50) High Pressure Sodium Ballast Kit	●	3-12
		5-Tap	120/208/240/277/480	HPS-250A-P-KIT	250W (S50) High Pressure Sodium Ballast Kit	●	3-12
	400	Single	480	HPS-400A-4-KIT	400W (S51) High Pressure Sodium Ballast Kit	●	3-12
		Quad	120/208/240/277	HPS-400A-Q-KIT	400W (S51) High Pressure Sodium Ballast Kit	●	3-12
		5-Tap	120/208/240/277/480	HPS-400A-P-KIT	400W (S51) High Pressure Sodium Ballast Kit	●	3-12
	600	Quad	120/208/240/277	HPS-600A-Q-KIT	600W (S106) High Pressure Sodium Ballast Kit	●	3-12
F-Can	70	Dual	120/277	MH-70X-D-FCAN	70W (M98) Metal Halide F-Can	●	3-14
					100W (M90) Metal Halide F-Can	●	3-14
	150	Dual	120/277	MH-150X-D-FCAN	150W (M102) Metal Halide F-Can	●	3-14
	175	Dual	120/277	MH-175A-D-FCAN	175W (M57/H39) Metal Halide F-Can	●	3-14

SIGN BALLASTS

CATEGORY	INPUT VOLTS	NO. OF LAMPS	COMBINED LAMP LENGTH (FT.)	CATALOG NUMBER	DESCRIPTION	QUICK SHIP?	PAGE NUMBER
Magnetic	120	1 or 2	4-12	KTSB-0412-12-1-TP	1-2 T12HO Lamps with Combined Length of 4-12 Feet	●	4-2
		2, 3, or 4	6-20	KTSB-0620-24-1-TP	2-4 T12HO Lamps with Combined Length of 6-20 Feet	●	4-2
			12-24	KTSB-1224-24-1-TP	2-4 T12HO Lamps with Combined Length of 12-24 Feet	●	4-2
			20-40	KTSB-2040-24-1-TP	2-4 T12HO Lamps with Combined Length of 20-40 Feet	●	4-2
		4, 5, or 6	12-40	KTSB-1240-46-1-TP	4-6 T12HO Lamps with Combined Length of 12-40 Feet	●	4-2
			24-48	KTSB-2448-46-1-TP	4-6 T12HO Lamps with Combined Length of 24-48 Feet	●	4-2
Electronic	120-277	1 or 2	2-16	KTSB-E-0216-12-UV	1-2 T8HO Lamps, Length 4-12 Feet/1-2 T12HO Lamps, Length 2-16 Feet	●	4-4
		1, 2, 3, or 4	4-32	KTSB-E-0432-14-UV	1-4 T8HO Lamps, Length 4-24 Feet/1-2 T12HO Lamps, Length 4-32 Feet	●	4-4
			10-40	KTSB-E-1040-14-UV	1-4 T8HO Lamps, Length 8-32 Feet/1-4 T12HO Lamps, Length 10-40 Feet	●	4-4
		4, 5, or 6	8-48	KTSB-E-0848-46-UV	4-6 T8HO Lamps, Length 16-36 Feet/4-6 T12HO Lamps, Length 8-48 Feet	●	4-4

MAGNETIC

CATEGORY	PRIMARY LAMP TYPE	NO. OF LAMPS	INPUT VOLTS	CATALOG NUMBER	DESCRIPTION	QUICK SHIP?	PAGE NUMBER
CFL	13W 2-Pin	1	120	CC1322TP	13-22 Watt, 2-Pin Compact Fluorescent	●	1-2, 1-8, 2-2
				113SHPTP	1 Lite 13 Watt, 2-Pin Compact Fluorescent, High Power Factor	●	2-2
	9W 2-Pin	1	120	CC579TP	5, 7, 9 Watt, 2-Pin Compact Fluorescent	●	2-2
Circline	FC8T9	1	120	SS22WSTP	22W Circline, Small Case, Self-Start	●	1-34

We keep all of our Quick Ship items well-stocked to fulfill orders immediately.

Contact us for availability of items not listed as Quick Ship.

Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

ELECTRONIC BALLASTS

CONTENTS

1-2 | T12

1-6 | T12HO

1-8 | T8

1-18 | T8 Lamps
Over 48"

1-22 | T5

1-26 | T5HO

1-28 | PLL

1-34 | Circline

1-36 | 2D



Keystone's extensive portfolio of electronic ballasts covers all fluorescent lighting applications, including commercial, industrial, and residential type lighting fixtures. Known for their dependability and energy efficiency, every Keystone electronic ballast is "burnt in" at the factory to ensure exceptional performance and superior reliability.



Energy Star® - Keystone Technologies is the industry leader in ballasts for Energy Star® rated lighting fixtures. With more products exceeding the Energy Star® requirements than any other ballast manufacturer, Keystone Technologies continues to lead the way in energy efficiency.



NEMA Premium High Efficiency Series - Setting the standards in superior energy efficiency, Keystone's high efficiency T8 ballasts earned the prestigious NEMA Premium designation by exceeding the standards set forth by the Consortium for Energy Efficiency (CEE).



CEE Qualified - The Consortium for Energy Efficiency is the premiere agency for recognizing the most efficient electrical products. Lighting ballasts qualified by CEE are recognized as the most energy efficient products and automatically qualify for utility rebate programs throughout the United States. For more information visit www.cee1.org.



RoHS Compliant: All Keystone electronic ballasts produced after January 1, 2010 are RoHS compliant, meaning they are made from environmentally-friendly components.



NEW Smaller Case Sizes - Keystone's latest electronic ballast designs employ the smallest case styles on the market today. Smaller case styles enable fixture manufacturers to design sleeker, more streamlined fixtures.



CATALOG NUMBER DESIGNATIONS

KTEB: Keystone Technologies Electronic Ballast
CC: Clamp Core and Coil
EMI: Meets FCC Class B EMI Requirements
FC: Finger Case
H: 1.18 Ballast Factor (High Light Output)
HE: High Efficiency
VH: 90°C Temp Rating
L: 0.77 Ballast Factor (Low Light Output)

LBF: 0.88 Ballast Factor
LC: Long Case
MB: Mounting Bracket
N: 0.88 Ballast Factor (Normal Light Output)
P: NEMA Premium Series
PIC: Active Power Factor Correction
PS: Program Start
RIS: Residential Instant Start

SL: Slim Case Style
SS: Self Start
TP: Thermally Protected
1: 120V Input
UV: Universal Voltage Input (120-277V)
WS: With Circline Socket

ELECTRONIC BALLASTS



T12

ELECTRONIC BALLASTS
T12

LAMP TYPE												WARRANTY			APPROVALS		
NO. OF LAMPS	INPUT POWER (W)	CATALOG NUMBER	INPUT VOLTS	STARTING METHOD	LINE CURRENT	MIN. POWER FACTOR	MAX THD	BALLAST FACTOR	MIN. START TEMP (°C/°F)	MAX CASE TEMP. (°C/°F)		WIRING DIAGRAM	CASE STYLE			STATUS	
F14T12																	
1	16	CC1322TP*	120	Preheat	0.33	0.40	15	0.80	0/32	90/194	3	F1-1	B2			Quick Ship	
	15	KTEB-120-1-TP	120	Rapid	0.24	0.50	150	1.00	-18/0	75/167	3	F1-6	X1			Quick Ship	
		KTEB-120-1-TP-EMI	120	Rapid	0.24	0.50	150	1.00	-18/0	75/167	3	F1-6	L7			Quick Ship	
2	27	KTEB-220-1-TP-EMI	120	Rapid	0.42	0.50	150	0.85	-18/0	75/167	3	F2-10	L7			Quick Ship	
F15T12																	
1	17	CC1322TP*	120	Preheat	0.32	0.45	15	0.85	0/32	90/194	3	F1-1	B2			Quick Ship	
	17	KTEB-120-1-TP	120	Rapid	0.26	0.50	150	1.00	-18/0	75/167	3	F1-6	X1			Quick Ship	
		KTEB-120-1-TP-EMI	120	Rapid	0.26	0.50	150	1.00	-18/0	75/167	3	F1-6	L7			Quick Ship	
2	36	KTEB-220-1-TP-EMI	120	Rapid	0.52	0.50	150	1.02	-18/0	75/167	3	F2-10	L7			Quick Ship	
F20T12																	
1	17	CC1322TP*	120	Preheat	0.24	0.60	15	0.65	0/32	90/194	3	F1-1	B2			Quick Ship	
	18	KTEB-120-1-TP	120	Rapid	0.27	0.50	150	0.90	-18/0	75/167	3	F1-6	X1			Quick Ship	
		KTEB-120-1-TP-EMI	120	Rapid	0.27	0.50	150	0.90	-18/0	75/167	3	F1-6	L7			Quick Ship	
2	36	KTEB-220-1-TP-EMI	120	Rapid	0.52	0.50	150	0.87	-18/0	75/167	3	F2-10	L7			Quick Ship	
F30T12																	
1	38	KTEB-240-1-TP-PIC	120	Rapid	0.32	0.98	10	1.00	-18/0	75/167	3	F1-13	L5			Quick Ship	
		KTEB-240-UV-TP-PIC	120-277	Rapid	0.32-0.14	0.99	10	1.00	-18/0	75/167	3	F1-13	L5			Quick Ship	
2	47	KTEB-240-1-TP	120	Rapid	0.73	0.55	150	0.85	-18/0	75/167	3	F2-9	L1			Quick Ship	
	58	KTEB-240-1-TP-PIC	120	Rapid	0.49	0.99	10	0.88	-18/0	75/167	3	F2-1	L5			Quick Ship	
		KTEB-240-UV-TP-PIC	120-277	Rapid	0.49-0.22	0.99	10	0.88	-18/0	75/167	3	F2-1	L5			Quick Ship	
F40T12																	
1	36	KTEB-140-1-TP-EMI	120	Rapid	0.53	4.00	150	0.88	-18/0	75/167	3	F1-7	L7			Quick Ship	
	47	KTEB-240-1-TP-PIC	120	Rapid	0.40	0.99	10	1.10	-18/0	75/167	3	F1-13	L5			Quick Ship	
		KTEB-240-UV-TP-PIC	120-277	Rapid	0.40-0.18	0.98	10	1.10	-18/0	75/167	3	F1-13	L5			Quick Ship	
2	58	KTEB-240-1-TP	120	Rapid	0.87	0.50	150	0.75	-18/0	75/167	3	F2-9	L1			Quick Ship	
	74	KTEB-240-1-TP-PIC	120	Rapid	0.62	0.99	10	0.88	-18/0	75/167	3	F2-1	L5			Quick Ship	
		KTEB-240-UV-TP-PIC	120	Rapid	0.62-0.27	0.99	10	0.88	-18/0	75/167	3	F2-1	L5			Quick Ship	
F40T12 (34W ENERGY SAVER)																	
1	30	KTEB-140-1-TP-EMI	120	Rapid	0.45	0.50	150	0.88	-18/0	75/167	3	F1-7	L7			Quick Ship	
	40	KTEB-240-1-TP-PIC	120	Rapid	0.34	0.98	10	1.10	-18/0	75/167	3	F1-13	L5			Quick Ship	
	47	KTEB-240-UV-TP-PIC	120-277	Rapid	0.34-0.15	0.97	10	1.10	-18/0	75/167	3	F1-13	L5			Quick Ship	
2	48	KTEB-240-1-TP	120	Rapid	0.76	0.50	150	0.73	-18/0	75/167	3	F2-9	L1			Quick Ship	
	63	KTEB-240-1-TP-PIC	120	Rapid	0.53	0.99	10	0.85	-18/0	75/167	3	F2-1	L5			Quick Ship	
	74	KTEB-240-UV-TP-PIC	120-277	Rapid	0.62-0.27	0.98	10	0.88	-18/0	75/167	3	F2-1	L5			Quick Ship	

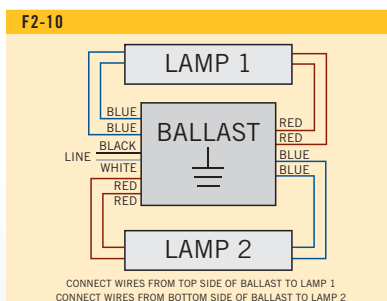
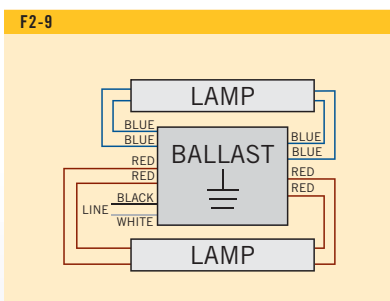
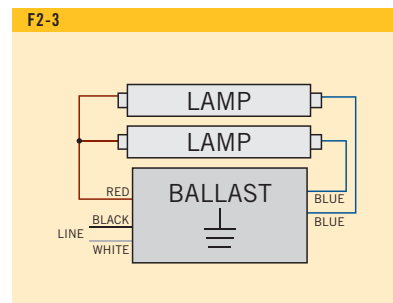
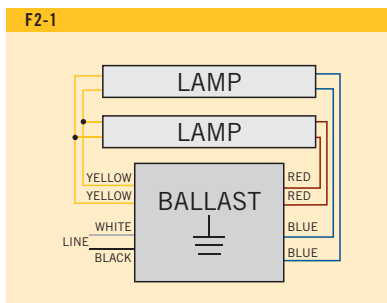
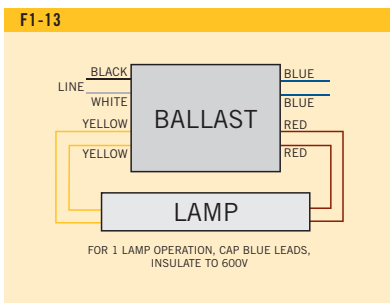
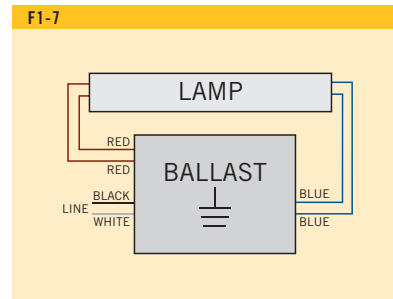
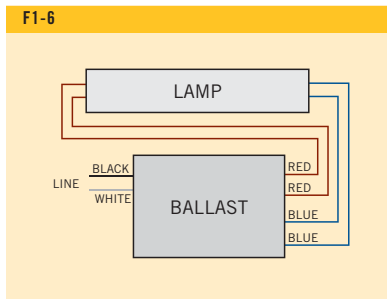
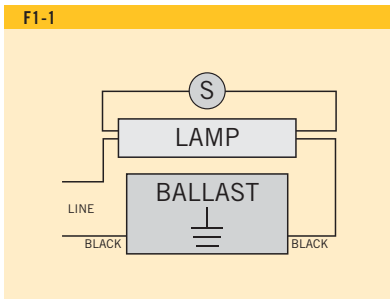
*Electromagnetic Ballast

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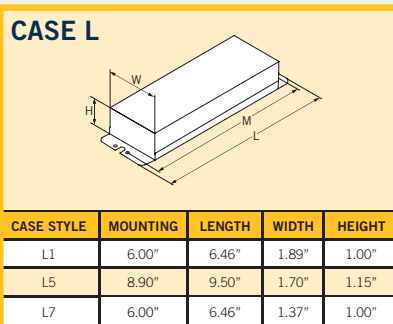
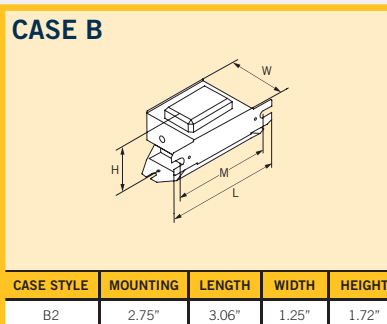
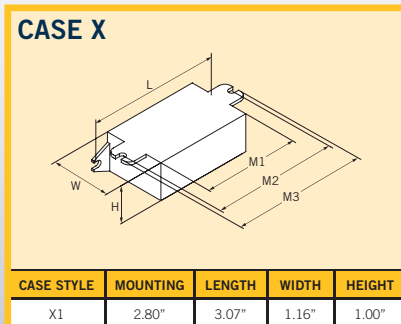
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WIRING DIAGRAMS



CASE STYLES



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ELECTRONIC BALLASTS



T12

ELECTRONIC BALLASTS
T12

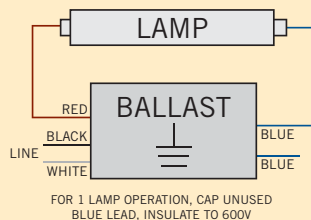
LAMP TYPE															APPROVALS	
NO. OF LAMPS	INPUT POWER (W)	CATALOG NUMBER	INPUT VOLTS	STARTING METHOD	LINE CURRENT	MIN. POWER FACTOR	MAX THD	BALLAST FACTOR	MIN. START TEMP (°C/°F)	MAX CASE TEMP. (°C/°F)	WARRANTY	WIRING DIAGRAM	CASE STYLE		STATUS	
F48T12 (40W)																
2	64	KTEB-275-1-TP-PIC-SL	120	Instant	0.68	0.99	12	0.92	-18/0	75/167	3	F2-3	L3		Quick Ship	
		KTEB-275-UV-TP-PIC	120-277	Instant	0.68-0.30	0.99	12	0.92	-18/0	75/167	3	F2-3	AA1		Quick Ship	
F48T12 (30W ENERGY SAVER)																
2	64	KTEB-275-1-TP-PIC-SL	120	Instant	0.60	0.98	12	0.92	16/60	75/167	3	F2-3	L3		Quick Ship	
		KTEB-275-UV-TP-PIC	120-277	Instant	0.60-0.26	0.95	12	0.92	16/60	75/167	3	F2-3	AA1		Quick Ship	
F72T12																
1	67	KTEB-275-1-TP-PIC-SL	120	Instant	0.60	0.98	12	1.05	-18/0	75/167	3	F1-10	L3		Quick Ship	
		KTEB-275-UV-TP-PIC	120-277	Instant	0.60-0.26	0.95	12	1.05	-18/0	75/167	3	F1-10	AA1		Quick Ship	
2	107	KTEB-275-1-TP-PIC-SL	120	Instant	0.92	0.98	12	0.95	-18/0	75/167	3	F2-3	L3		Quick Ship	
		KTEB-275-UV-TP-PIC	120-277	Instant	0.92-0.40	0.95	12	0.95	-18/0	75/167	3	F2-3	AA1		Quick Ship	
F96T12																
1	83	KTEB-275-1-TP-PIC-SL	120	Instant	0.69	0.98	12	1.05	-18/0	75/167	3	F1-10	L3		Quick Ship	
		KTEB-275-UV-TP-PIC	120-277	Instant	0.31-0.69	0.98	12	1.05	-18/0	75/167	3	F1-10	AA1		Quick Ship	
2	133	KTEB-275-1-TP-PIC-SL	120	Instant	1.15	0.98	12	0.86	-18/0	75/167	3	F2-3	L3		Quick Ship	
		KTEB-275-UV-TP-PIC	120-277	Instant	1.15-0.49	0.98	12	0.86	-18/0	75/167	3	F2-3	AA1		Quick Ship	
F96T12 (60W ENERGY SAVER)																
1	71	KTEB-275-1-TP-PIC-SL	120	Instant	0.60	0.98	12	1.12	16/60	75/167	3	F1-10	L3		Quick Ship	
	72	KTEB-275-UV-TP-PIC	120-277	Instant	0.27-0.60	0.98	12	1.12	16/60	75/167	3	F1-10	AA1		Quick Ship	
2	115	KTEB-275-1-TP-PIC-SL	120	Instant	0.97	0.98	12	0.95	16/60	75/167	3	F2-3	L3		Quick Ship	
		KTEB-275-UV-TP-PIC	120-277	Instant	0.97-0.42	0.98	12	0.95	16/60	75/167	3	F2-3	AA1		Quick Ship	

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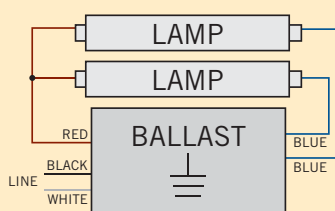


WIRING DIAGRAMS

F1-10

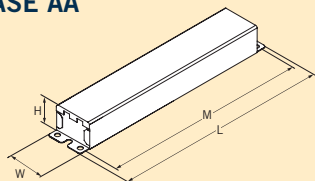


F2-3



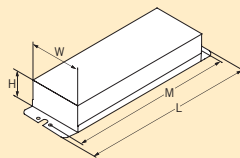
CASE STYLES

CASE AA



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
AA1	11.00"	11.80"	2.15"	1.61"

CASE L



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
L3	8.90"	9.45"	1.80"	1.37"

ELECTRONIC BALLASTS

T12HO

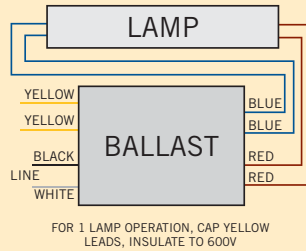
ELECTRONIC BALLASTS
T12HO

LAMP TYPE												WARRANTY			APPROVALS	
NO. OF LAMPS	INPUT POWER (W)	CATALOG NUMBER	INPUT VOLTS	STARTING METHOD	LINE CURRENT	MIN. POWER FACTOR	MAX THD	BALLAST FACTOR	MIN. START TEMP (°C/°F)	MAX CASE TEMP. (°C/°F)		WIRING DIAGRAM	CASE STYLE			STATUS
F48T12HO																
2	104	KTEB-2110-1-TP-PIC	120	Rapid	0.88	0.98	10	0.90	-29/-20	75/167	3	F2-1	AA1		Quick Ship	
		KTEB-2110-UV-TP-PIC	120-277	Rapid	0.88-0.38	0.95	20	0.90	-29/-20	75/167	3	F2-1	AA1		Quick Ship	
F60T12HO																
2	132	KTEB-2110-1-TP-PIC	120	Rapid	1.10	0.98	10	0.90	-29/-20	75/167	3	F2-1	AA1		Quick Ship	
		KTEB-2110-UV-TP-PIC	120-277	Rapid	1.10-0.48	0.95	20	0.90	-29/-20	75/167	3	F2-1	AA1		Quick Ship	
F72T12HO																
2	154	KTEB-2110-1-TP-PIC	120	Rapid	1.30	0.98	10	0.90	-29/-20	75/167	3	F2-1	AA1		Quick Ship	
		KTEB-2110-UV-TP-PIC	120-277	Rapid	1.30-0.56	0.95	20	0.90	-29/-20	75/167	3	F2-1	AA1		Quick Ship	
F96T12HO																
1	104	KTEB-2110-1-TP-PIC	120	Rapid	0.88	0.98	10	0.92	-29/-20	75/167	3	F1-12	AA1		Quick Ship	
		KTEB-2110-UV-TP-PIC	120-277	Rapid	0.88-0.38	0.95	20	0.92	-29/-20	75/167	3	F1-12	AA1		Quick Ship	
2	196	KTEB-2110-1-TP-PIC	120	Rapid	1.65	0.98	10	0.90	-29/-20	75/167	3	F2-1	AA1		Quick Ship	
		KTEB-2110-UV-TP-PIC	120-277	Rapid	1.65-0.72	0.95	20	0.90	-29/-20	75/167	3	F2-1	AA1		Quick Ship	
F96T12HO (95W ENERGY SAVER)																
2	164	KTEB-2110-1-TP-PIC	120	Rapid	1.38	0.98	10	0.90	16/60	75/167	3	F2-1	AA1		Quick Ship	
		KTEB-2110-UV-TP-PIC	120-277	Rapid	1.38-0.60	0.95	20	0.90	16/60	75/167	3	F2-1	AA1		Quick Ship	

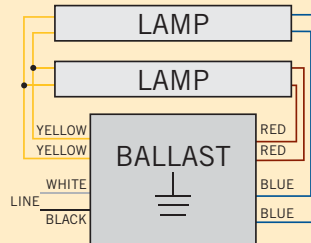
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WIRING DIAGRAMS

F1-12

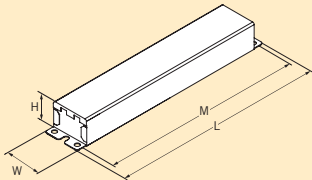


F2-1



CASE STYLES

CASE AA



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
AA1	11.00"	11.80"	2.15"	1.61"

ELECTRONIC BALLASTS



T8

ELECTRONIC BALLASTS
T8

LAMP TYPE												WARRANTY			APPROVALS			
NO. OF LAMPS	INPUT POWER (W)	CATALOG NUMBER	INPUT VOLTS	STARTING METHOD	LINE CURRENT	MIN. POWER FACTOR	MAX THD	BALLAST FACTOR	MIN. START TEMP (°C/°F)	MAX CASE TEMP. (°C/°F)			WIRING DIAGRAM	CASE STYLE	UL LISTED	CEC Qualified	NEMA Premium	STATUS
F13T8																		
1	16	KTEB-126-1-TP	120	Rapid	0.27	0.50	160	1.10	-18/0	75/167	3	F1-6	S1	●				Active
		KTEB-126-1-TP-LC	120	Rapid	0.27	0.50	160	1.10	-18/0	75/167	3	F1-6	L2	●				Active
F14T8																		
1	16	CC1322TP*	120	Preheat	0.33	0.40	15	0.80	0/32	90/194	3	F1-1	B2	●				Quick Ship
	15	KTEB-120-1-TP	120	Rapid	0.24	0.50	150	1.10	-18/0	75/167	3	F1-6	X1	●				Quick Ship
		KTEB-120-1-TP-EMI	120	Rapid	0.24	0.50	150	1.10	-18/0	75/167	3	F1-6	L7	●	●			Quick Ship
2	27	KTEB-220-1-TP-EMI	120	Rapid	0.42	0.50	150	0.85	-18/0	75/167	3	F2-10	L7	●	●			Quick Ship
F15T8																		
1	17	CC1322TP*	120	Preheat	0.27	0.50	15	0.82	0/32	90/194	3	F1-1	B2	●				Quick Ship
		KTEB-120-1-TP	120	Rapid	0.26	0.50	150	1.10	-18/0	75/167	3	F1-6	X1	●				Quick Ship
		KTEB-120-1-TP-EMI	120	Rapid	0.26	0.50	150	1.10	-18/0	75/167	3	F1-6	L7	●	●			Quick Ship
		KTEB-126-1-TP	120	Rapid	0.27	0.50	150	1.00	-18/0	75/167	3	F1-6	S1	●	●			Active
		KTEB-126-1-TP-LC	120	Rapid	0.27	0.50	150	1.00	-18/0	75/167	3	F1-6	L2	●	●			Active
		KTEB-132-1-TP-EMI	120	Rapid	0.27	0.50	150	1.10	-18/0	75/167	3	F1-8	L7	●	●			Quick Ship
	KTEB-232LBF-1-TP-PIC-EV	120	Instant	0.15	0.96	10	0.91	-18/0	75/167	5	F1-4	L9	●				Quick Ship	
2	20	KTEB-232RIS-1-TP-SL	120	Instant	0.32	0.52	150	0.90	-18/0	75/167	3	F1-5	N3	●				Quick Ship
	32	KTEB-220-1-TP-EMI	120	Rapid	0.48	0.50	150	1.00	-18/0	75/167	3	F2-10	L7	●	●			Quick Ship
	25	KTEB-232LBF-1-TP-PIC-EV	120	Instant	0.21	0.97	10	0.77	-18/0	75/167	5	F2-4	L9	●				Quick Ship
	28	KTEB-232RIS-1-TP-SL	120	Instant	0.43	0.50	160	0.80	-18/0	75/167	3	F2-3	N3	●	●			Quick Ship
29	KTEB-2C72-1-TP	120	Rapid	0.45	0.50	160	0.80	-18/0	75/167	3	F2-8	L1	●	●			Quick Ship	
F17T8																		
1	19	KTEB-120-1-TP	120	Rapid	0.29	0.50	150	1.15	-18/0	75/167	3	F1-6	X1	●				Quick Ship
		KTEB-120-1-TP-EMI	120	Rapid	0.29	0.50	150	1.15	-18/0	75/167	3	F1-6	L7	●	●			Quick Ship
	20	KTEB-126-1-TP	120	Rapid	0.31	0.50	150	1.00	-18/0	75/167	3	F1-6	S1	●	●			Active
		KTEB-126-1-TP-LC	120	Rapid	0.31	0.50	150	1.00	-18/0	75/167	3	F1-6	L2	●	●			Active
		KTEB-132-1-TP-EMI	120	Rapid	0.31	0.50	150	1.15	-18/0	75/167	3	F1-8	L7	●	●			Quick Ship
	22	KTEB-132-UV-IS-H-P	120-277	Instant	0.19-0.09	0.95	12	1.23	-18/0	75/167	5	F1-14	L12	●			●	Active
	14	KTEB-132-UV-IS-L-P	120-277	Instant	0.12-0.06	0.95	12	0.78	-18/0	75/167	5	F1-9	L9	●			●	Special Order
	16	KTEB-132-UV-IS-N-P	120-277	Instant	0.13-0.07	0.95	12	0.90	-18/0	75/167	5	F1-9	L9	●			●	Quick Ship
	23	KTEB-132-UV-PS-H-P	120-277	Program	0.20-0.09	0.97	12	1.20	-18/0	75/167	5	F1-7	L6	●			●	Active
	17	KTEB-132-UV-PS-L-P	120-277	Program	0.15-0.07	0.94	15	0.88	-18/0	75/167	5	F1-7	L6	●			●	Active
	20	KTEB-132-UV-PS-N-P	120-277	Program	0.17-0.08	0.95	10	0.88	-18/0	75/167	5	F1-7	L6	●			●	Quick Ship
	21	KTEB-132-UV-TP-SL	120-277	Rapid	0.18-0.08	0.96	12	1.00	-18/0	75/167	5	F1-7	L4	●				Active
	22	KTEB-232LBF-1-TP-PIC-EV	120	Instant	0.19	0.97	10	1.18	-18/0	75/167	5	F1-4	L9	●	●			Quick Ship
		KTEB-232LBF-1-TP-PIC-SL	120	Instant	0.19	0.98	10	1.20	-18/0	75/167	5	F1-5	L6	●	●			Active
	25	KTEB-232RIS-1-TP-SL	120	Instant	0.39	0.54	150	1.10	-18/0	75/167	3	F1-5	N3	●				Quick Ship
	28	KTEB-232-UV-IS-H-P	120-277	Instant	0.26-0.13	0.92	15	1.38	-18/0	75/167	5	F1-5	L9	●			●	Quick Ship
	18	KTEB-232-UV-IS-L-P	120-277	Instant	0.15-0.07	0.95	12	1.05	-18/0	75/167	5	F1-4	L9	●			●	Quick Ship
	21	KTEB-232-UV-IS-N-P	120-277	Instant	0.17-0.08	0.95	15	1.25	-18/0	75/167	5	F1-4	L9	●			●	Quick Ship
	30	KTEB-232-UV-PS-H-P	120-277	Program	0.25-0.12	0.93	15	1.44	-18/0	75/167	5	F2-18	L6	●			●	Active
	21	KTEB-232-UV-PS-L-P	120-277	Program	0.17-0.08	0.95	15	0.84	-18/0	75/167	5	F2-18	L6	●			●	Active
	24	KTEB-232-UV-PS-N-P	120-277	Program	0.38-0.17	0.97	12	0.99	-18/0	75/167	5	F2-18	L6	●			●	Quick Ship

*Electromagnetic Ballast

T8 Case Styles are listed on page 1-15. T8 Wiring Diagrams are listed on pages 1-16 and 1-17.

Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

LAMP TYPE	NO. OF LAMPS	INPUT POWER (W)	CATALOG NUMBER	INPUT VOLTS	STARTING METHOD	LINE CURRENT	MIN. POWER FACTOR	MAX THD	BALLAST FACTOR	MIN. START TEMP (°C/°F)	MAX CASE TEMP. (°C/°F)	WARRANTY	WIRING DIAGRAM	CASE STYLE	APPROVALS	STATUS
															  	
F17T8 (continued)																
2	37		KTEB-220-1-TP-EMI	120	Rapid	0.54	0.50	150	1.02	-18/0	75/167	3	F2-10	L7	 	Quick Ship
	34		KTEB-232LBF-1-TP-PIC-EV	120	Instant	0.28	0.98	10	0.88	-18/0	75/167	5	F2-4	L9	 	Quick Ship
	32		KTEB-232LBF-1-TP-PIC-SL	120	Instant	0.28	0.98	10	0.90	-18/0	75/167	5	F2-3	L6	 	Active
	34		KTEB-232RIS-1-TP-SL	120	Instant	0.50	0.54	150	0.93	-18/0	75/167	3	F2-3	N3	 	Quick Ship
	41		KTEB-232-UV-IS-H-P	120-277	Instant	0.38-0.18	0.95	15	1.18	-18/0	75/167	5	F2-3	L9	 	Quick Ship
	25		KTEB-232-UV-IS-L-P	120-277	Instant	0.21-0.10	0.95	12	0.80	-18/0	75/167	5	F2-4	L9	 	Quick Ship
	30		KTEB-232-UV-IS-N-P	120-277	Instant	0.24-0.12	0.95	12	0.90	-18/0	75/167	5	F2-4	L9	 	Quick Ship
	44		KTEB-232-UV-PS-H-P	120-277	Program	0.37-0.16	0.96	12	1.18	-18/0	75/167	5	F2-18	L6	 	Active
	31		KTEB-232-UV-PS-L-P	120-277	Program	0.25-0.12	0.97	12	0.77	-18/0	75/167	5	F2-18	L6	 	Active
	35		KTEB-232-UV-PS-N-P	120-277	Program	0.30-0.13	0.96	10	0.88	-18/0	75/167	5	F2-18	L6	 	Quick Ship
	36		KTEB-2C72-1-TP	120	Rapid	0.60	0.50	160	0.95	-18/0	75/167	3	F2-8	L1	 	Active
	46		KTEB-332-UV-IS-H-P	120-277	Instant	0.41-0.19	0.95	15	1.20	-18/0	75/167	5	F2-5	L9	 	Quick Ship
	35		KTEB-332-UV-IS-L-P	120-277	Instant	0.28-0.14	0.92	15	0.94	-18/0	75/167	5	F2-5	L6	 	Quick Ship
	38		KTEB-332-UV-IS-N-P	120-277	Instant	0.31-0.14	0.93	15	1.01	-18/0	75/167	5	F2-5	L6	 	Quick Ship
3	49		KTEB-332-UV-PS-H-P	120-277	Program	0.40-0.19	0.95	15	1.30	-18/0	75/167	5	F3-9	L11	 	Active
	36		KTEB-332-UV-PS-L-P	120-277	Program	0.30-0.14	0.95	15	0.84	-18/0	75/167	5	F3-9	L11	 	Active
	41		KTEB-332-UV-PS-N-P	120-277	Program	0.33-0.15	0.95	10	0.98	-18/0	75/167	5	F3-9	L11	 	Quick Ship
	60		KTEB-332-UV-IS-H-P	120-277	Instant	0.54-0.24	0.97	12	1.19	-18/0	75/167	5	F3-1	L6	 	Quick Ship
	42		KTEB-332-UV-IS-L-P	120-277	Instant	0.35-0.15	0.95	12	0.82	-18/0	75/167	5	F3-2	L6	 	Quick Ship
	46		KTEB-332-UV-IS-N-P	120-277	Instant	0.39-0.17	0.97	10	0.92	-18/0	75/167	5	F3-2	L6	 	Quick Ship
	62		KTEB-332-UV-PS-H-P	120-277	Program	0.52-0.23	0.96	12	1.18	-18/0	75/167	5	F3-9	L11	 	Active
	45		KTEB-332-UV-PS-L-P	120-277	Program	0.37-0.17	0.96	12	0.77	-18/0	75/167	5	F3-9	L11	 	Active
	51		KTEB-332-UV-PS-N-P	120-277	Program	0.42-0.19	0.97	10	0.90	-18/0	75/167	5	F3-9	L11	 	Quick Ship
	60		KTEB-432LBF-1-TP-PIC	120	Instant	0.51	0.98	10	0.90	-18/0	75/167	5	F3-3	L5		Quick Ship
			KTEB-432RIS-1-TP	120	Instant	0.96	0.50	140	0.88	-18/0	80/176	3	F3-3	L5		Quick Ship
4	47		KTEB-432-UV-IS-L-P	120-277	Instant	0.39-0.17	0.95	15	0.90	-18/0	75/167	5	F3-3	L6		Quick Ship
	51		KTEB-432-UV-IS-N-P	120-277	Instant	0.43-0.18	0.95	15	0.99	-18/0	75/167	5	F3-3	L6		Quick Ship
	49		KTEB-432-UV-PS-L-P	120-277	Program	0.40-0.18	0.96	12	0.82	-18/0	75/167	5	F4-6	L11		Active
	53		KTEB-432-UV-PS-N-P	120-277	Program	0.45-0.21	0.95	10	0.94	-18/0	75/167	5	F3-8	L11		Quick Ship
	60		KTEB-432LBF-1-TP-PIC	120	Instant	0.51	0.98	10	0.90	-18/0	75/167	5	F4-1	L5		Quick Ship
			KTEB-432RIS-1-TP	120	Instant	0.96	0.50	140	0.88	-18/0	80/176	3	F4-1	L5		Quick Ship
	53		KTEB-432-UV-IS-L-P	120-277	Instant	0.44-0.20	0.98	10	0.79	-18/0	75/167	5	F4-1	L6		Quick Ship
1	59		KTEB-432-UV-IS-N-P	120-277	Instant	0.49-0.22	0.97	10	0.90	-18/0	75/167	5	F4-1	L6		Quick Ship
	56		KTEB-432-UV-PS-L-P	120-277	Program	0.46-0.21	0.97	12	0.74	-18/0	75/167	5	F4-6	L11		Active
	63		KTEB-432-UV-PS-N-P	120-277	Program	0.52-0.24	0.97	10	0.90	-18/0	75/167	5	F4-6	L11		Quick Ship
	18		KTEB-120-1-TP	120	Rapid	0.27	0.50	150	0.95	-18/0	75/167	3	F1-6	X1		Quick Ship
			KTEB-120-1-TP-EMI	120	Rapid	0.27	0.50	150	0.95	-18/0	75/167	3	F1-6	L7		Quick Ship
2	34		KTEB-126-1-TP	120	Rapid	0.28	0.50	160	0.95	-18/0	75/167	3	F1-6	S1		Active
			KTEB-126-1-TP-LC	120	Rapid	0.28	0.50	160	0.95	-18/0	75/167	3	F1-6	L2		Active
2	34		KTEB-220-1-TP-EMI	120	Rapid	0.50	0.50	150	0.92	-18/0	75/167	3	F2-10	L7		Quick Ship
F18T8																

T8 Case Styles are listed on page 1-15. T8 Wiring Diagrams are listed on pages 1-16 and 1-17.

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ELECTRONIC BALLASTS

T8



ELECTRONIC BALLASTS
T8

LAMP TYPE	NO. OF LAMPS	INPUT POWER (W)	CATALOG NUMBER	INPUT VOLTS	STARTING METHOD	LINE CURRENT	MIN. POWER FACTOR	MAX THD	BALLAST FACTOR	MIN. START TEMP (°C/°F)	MAX CASE TEMP. (°C/°F)	WARRANTY	WIRING DIAGRAM	CASE STYLE	APPROVALS	STATUS
F25T8																
1	28		KTEB-126-1-TP	120	Rapid	0.41	0.50	130	0.95	-18/0	75/167	3	F1-6	S1		Active
			KTEB-126-1-TP-LC	120	Rapid	0.41	0.50	130	0.95	-18/0	75/167	3	F1-6	L2		Active
			KTEB-132-1-TP-EMI	120	Rapid	0.41	0.50	130	1.05	-18/0	75/167	3	F1-7	L7		Quick Ship
	30		KTEB-132-UV-IS-H-P	120-277	Instant	0.26-0.11	0.96	12	1.22	-18/0	75/167	5	F1-14	L12		Active
	14		KTEB-132-UV-IS-L-P	120-277	Instant	0.12-0.06	0.95	12	0.78	-18/0	75/167	5	F1-9	L9		Special Order
	16		KTEB-132-UV-IS-N-P	120-277	Instant	0.13-0.07	0.95	12	0.90	-18/0	75/167	5	F1-9	L9		Quick Ship
	32		KTEB-132-UV-PS-H-P	120-277	Program	0.27-0.12	0.98	10	1.20	-18/0	75/167	5	F1-7	L6		Active
	22		KTEB-132-UV-PS-L-P	120-277	Program	0.19-0.09	0.96	12	0.80	-18/0	75/167	5	F1-7	L6		Active
	27		KTEB-132-UV-PS-N-P	120-277	Program	0.22-0.10	0.96	10	0.88	-18/0	75/167	5	F1-7	L6		Quick Ship
	29		KTEB-232LBF-1-TP-PIC-EV	120	Instant	0.25	0.98	10	1.10	-18/0	75/167	5	F1-4	L9		Quick Ship
	31		KTEB-232LBF-1-TP-PIC-SL	120	Instant	0.26	0.99	10	1.15	-18/0	75/167	5	F1-5	L6		Active
	27		KTEB-232RIS-1-TP-SL	120	Instant	0.45	0.50	150	0.95	-18/0	75/167	3	F1-5	N3		Quick Ship
	38		KTEB-232-UV-IS-H-P	120-277	Instant	0.35-0.16	0.94	15	1.38	-18/0	75/167	5	F1-5	L9		Quick Ship
	23		KTEB-232-UV-IS-L-P	120-277	Instant	0.19-0.09	0.97	12	0.92	-18/0	75/167	5	F1-4	L9		Quick Ship
	27		KTEB-232-UV-IS-N-P	120-277	Instant	0.23-0.10	0.97	12	1.10	-18/0	75/167	5	F1-4	L9		Quick Ship
	38		KTEB-232-UV-PS-H-P	120-277	Program	0.32-0.14	0.95	15	1.33	-18/0	75/167	5	F2-18	L6		Active
	28		KTEB-232-UV-PS-L-P	120-277	Program	0.23-0.10	0.97	12	0.88	-18/0	75/167	5	F2-18	L6		Active
2	32		KTEB-232-UV-PS-N-P	120-277	Program	0.26-0.12	0.95	12	0.99	-18/0	75/167	5	F2-18	L6		Quick Ship
	46		KTEB-232LBF-1-TP-PIC-EV	120	Instant	0.39	0.99	10	0.88	-18/0	75/167	5	F2-4	L9		Quick Ship
			KTEB-232LBF-1-TP-PIC-SL	120	Instant	0.39	0.99	10	0.90	-18/0	75/167	5	F2-3	L6		Active
	47		KTEB-232RIS-1-TP-SL	120	Instant	0.65	0.59	150	0.90	-18/0	75/167	3	F2-3	N3		Quick Ship
	61		KTEB-232-UV-IS-H-P	120-277	Instant	0.51-0.22	0.97	10	1.18	-18/0	75/167	5	F2-3	L9		Quick Ship
	37		KTEB-232-UV-IS-L-P	120-277	Instant	0.30-0.14	0.97	10	0.79	-18/0	75/167	5	F2-4	L9		Quick Ship
	44		KTEB-232-UV-IS-N-P	120-277	Instant	0.36-0.16	0.97	10	0.88	-18/0	75/167	5	F2-4	L9		Quick Ship
	60		KTEB-232-UV-PS-H-P	120-277	Program	0.50-0.22	0.97	12	1.15	-18/0	75/167	5	F2-18	L6		Active
	41		KTEB-232-UV-PS-L-P	120-277	Program	0.35-0.15	0.98	10	0.74	-18/0	75/167	5	F2-18	L6		Active
	47		KTEB-232-UV-PS-N-P	120-277	Program	0.40-0.18	0.95	10	0.86	-18/0	75/167	5	F2-18	L6		Quick Ship
	52		KTEB-240-1-TP	120	Rapid	0.81	0.50	150	1.05	-18/0	75/167	3	F2-9	L1		Quick Ship
	48		KTEB-2C72-1-TP	120	Rapid	0.72	0.50	150	0.95	-18/0	75/167	3	F2-8	L1		Quick Ship
	64		KTEB-332-UV-IS-H-P	120-277	Instant	0.57-0.24	0.97	12	1.25	-18/0	75/167	5	F2-5	L9		Quick Ship
	47		KTEB-332-UV-IS-L-P	120-277	Instant	0.39-0.18	0.96	12	0.88	-18/0	75/167	5	F2-5	L6		Quick Ship
	54		KTEB-332-UV-IS-N-P	120-277	Instant	0.45-0.20	0.96	12	1.01	-18/0	75/167	5	F2-5	L6		Quick Ship
	68		KTEB-332-UV-PS-H-P	120-277	Program	0.57-0.25	0.97	12	1.33	-18/0	75/167	5	F3-9	L11		Active
	50		KTEB-332-UV-PS-L-P	120-277	Program	0.40-0.18	0.97	12	0.88	-18/0	75/167	5	F3-9	L11		Active
3	54		KTEB-332-UV-PS-N-P	120-277	Program	0.44-0.20	0.97	10	0.95	-18/0	75/167	5	F3-9	L11		Quick Ship
	83		KTEB-332-UV-IS-H-P	120-277	Instant	0.69-0.30	0.98	10	1.16	-18/0	75/167	5	F3-1	L6		Quick Ship
	58		KTEB-332-UV-IS-L-P	120-277	Instant	0.48-0.21	0.98	10	0.77	-18/0	75/167	5	F3-2	L6		Quick Ship
	66		KTEB-332-UV-IS-N-P	120-277	Instant	0.56-0.24	0.97	10	0.87	-18/0	75/167	5	F3-2	L6		Quick Ship
	87		KTEB-332-UV-PS-H-P	120-277	Program	0.73-0.32	0.98	10	1.15	-18/0	75/167	5	F3-9	L11		Active
	62		KTEB-332-UV-PS-L-P	120-277	Program	0.51-0.23	0.98	10	0.74	-18/0	75/167	5	F3-9	L11		Active
	69		KTEB-332-UV-PS-N-P	120-277	Program	0.58-0.26	0.98	10	0.88	-18/0	75/167	5	F3-9	L11		Quick Ship
	70		KTEB-432LBF-1-TP-PIC	120	Instant	0.59	0.99	10	0.90	-18/0	75/167	5	F3-3	L5		Quick Ship
	63		KTEB-432RIS-1-TP	120	Instant	1.04	0.50	130	0.84	-18/0	75/167	3	F3-3	L5		Quick Ship
			KTEB-432-UV-IS-L-P	120-277	Instant	0.53-0.23	0.97	12	0.82	-18/0	75/167	5	F3-3	L6		Quick Ship
	70		KTEB-432-UV-IS-N-P	120-277	Instant	0.58-0.25	0.97	12	0.91	-18/0	75/167	5	F3-3	L6		Quick Ship
	66		KTEB-432-UV-PS-L-P	120-277	Program	0.55-0.24	0.98	10	0.80	-18/0	75/167	5	F4-6	L11		Active
	74		KTEB-432-UV-PS-N-P	120-277	Program	0.62-0.28	0.97	10	0.90	-18/0	75/167	5	F3-8	L11		Quick Ship

T8 Case Styles are listed on page 1-15. T8 Wiring Diagrams are listed on pages 1-16 and 1-17.

Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

LAMP TYPE	NO. OF LAMPS	INPUT POWER (W)	CATALOG NUMBER	INPUT VOLTS	STARTING METHOD	LINE CURRENT	MIN. POWER FACTOR	MAX THD	BALLAST FACTOR	MIN. START TEMP (°C/°F)	MAX CASE TEMP. (°C/°F)	WARRANTY	WIRING DIAGRAM	CASE STYLE	APPROVALS	STATUS
															  	
F25T8 (continued)																
4	88	KTEB-432LBF-1-TP-PIC	120	Instant	0.74	0.99	10	0.90	-18/0	75/167	5	F4-1	L5	●	●	Quick Ship
	77	KTEB-432RIS-1-TP	120	Instant	1.22	0.50	130	0.80	-18/0	75/167	3	F4-1	L5	●	●	Quick Ship
	78	KTEB-432-UV-IS-L-P	120-277	Instant	0.65-0.28	0.98	10	0.78	-18/0	75/167	5	F4-1	L6	●	●	Quick Ship
	87	KTEB-432-UV-IS-N-P	120-277	Instant	0.72-0.31	0.98	10	0.89	-18/0	75/167	5	F4-1	L6	●	●	Quick Ship
	78	KTEB-432-UV-PS-L-P	120-277	Program	0.65-0.29	0.98	10	0.73	-18/0	75/167	5	F4-6	L11	●	●	Active
	88	KTEB-432-UV-PS-N-P	120-277	Program	0.74-0.33	0.98	10	0.87	-18/0	75/167	5	F4-6	L11	●	●	Quick Ship
F32T8 (25W)																
1	32	KTEB-132-UV-IS-H-P	120-277	Instant	0.27-0.12	0.97	10	1.21â	-18/0	75/167	5	F1-14	L12	●	●	Active
	20	KTEB-132-UV-IS-L-P	120-277	Instant	0.17-0.08	0.97	12	0.77	-18/0	75/167	5	F1-9	L9	●	●	Special Order
	23	KTEB-132-UV-IS-N-P	120-277	Instant	0.19-0.09	0.98	10	0.87	-18/0	75/167	5	F1-9	L9	●	●	Quick Ship
	34	KTEB-132-UV-PS-H-P	120-277	Program	0.29-0.13	0.98	10	1.22	-18/0	75/167	5	F1-7	L6	●	●	Active
	23	KTEB-132-UV-PS-L-P	120-277	Program	0.20-0.09	0.96	12	0.77	-18/0	75/167	5	F1-7	L6	●	●	Active
	27	KTEB-132-UV-PS-N-P	120-277	Program	0.23-0.10	0.96	10	0.88	-18/0	75/167	5	F1-7	L6	●	●	Quick Ship
	38	KTEB-232-UV-IS-H-P	120-277	Instant	0.36-0.16	0.95	15	1.38	-18/0	75/167	5	F1-5	L9	●	●	Quick Ship
	25	KTEB-232-UV-IS-L-P	120-277	Instant	0.20-0.10	0.97	12	0.95	-18/0	75/167	5	F1-4	L9	●	●	Quick Ship
	27	KTEB-232-UV-IS-N-P	120-277	Instant	0.23-0.10	0.98	10	1.05	-18/0	75/167	5	F1-4	L9	●	●	Quick Ship
	41	KTEB-232-UV-PS-H-P	120-277	Program	0.34-0.16	0.95	12	1.46	-18/0	75/167	5	F2-18	L6	●	●	Active
	29	KTEB-232-UV-PS-L-P	120-277	Program	0.24-0.11	0.97	12	0.86	-18/0	75/167	5	F2-18	L6	●	●	Active
	33	KTEB-232-UV-PS-N-P	120-277	Program	0.27-0.12	0.95	12	1.05	-18/0	75/167	5	F2-18	L6	●	●	Quick Ship
2	39	KTEB-232-UV-IS-H-P	120-277	Instant	0.56-0.25	0.97	12	1.18	-18/0	75/167	5	F2-3	L9	●	●	Quick Ship
		KTEB-232-UV-IS-L-P	120-277	Instant	0.32-0.15	0.98	10	0.77	-18/0	75/167	5	F2-4	L9	●	●	Quick Ship
	44	KTEB-232-UV-IS-N-P	120-277	Instant	0.37-0.16	0.99	10	0.87	-18/0	75/167	5	F2-4	L9	●	●	Quick Ship
	64	KTEB-232-UV-PS-H-P	120-277	Program	0.54-0.24	0.98	10	1.24	-18/0	75/167	5	F2-18	L6	●	●	Active
	44	KTEB-232-UV-PS-L-P	120-277	Program	0.37-0.16	0.98	10	0.79	-18/0	75/167	5	F2-18	L6	●	●	Active
	50	KTEB-232-UV-PS-N-P	120-277	Program	0.42-0.19	0.97	10	0.88	-18/0	75/167	5	F2-18	L6	●	●	Quick Ship
	66	KTEB-332-UV-IS-H-P	120-277	Instant	0.61-0.27	0.98	10	1.28	-18/0	75/167	5	F2-5	L6	●	●	Quick Ship
	47	KTEB-332-UV-IS-L-P	120-277	Instant	0.39-0.18	0.96	12	0.88	-18/0	75/167	5	F2-5	L6	●	●	Quick Ship
	56	KTEB-332-UV-IS-N-P	120-277	Instant	0.45-0.20	0.96	12	1.01	-18/0	75/167	5	F2-5	L6	●	●	Quick Ship
	69	KTEB-332-UV-PS-H-P	120-277	Program	0.58-0.26	0.97	12	1.37	-18/0	75/167	5	F3-9	L11	●	●	Active
	50	KTEB-332-UV-PS-L-P	120-277	Program	0.40-0.18	0.97	12	0.88	-18/0	75/167	5	F3-9	L11	●	●	Active
	56	KTEB-332-UV-PS-N-P	120-277	Program	0.46-0.21	0.98	10	0.97	-18/0	75/167	5	F3-9	L11	●	●	Quick Ship
3	87	KTEB-332-UV-IS-H-P	120-277	Instant	0.80-0.35	0.98	10	1.18	-18/0	75/167	5	F3-2	L6	●	●	Quick Ship
	60	KTEB-332-UV-IS-L-P	120-277	Instant	0.49-0.22	0.97	12	0.78	-18/0	75/167	5	F3-2	L6	●	●	Quick Ship
	72	KTEB-332-UV-IS-N-P	120-277	Instant	0.59-0.26	0.97	12	0.94	-18/0	75/167	5	F3-2	L6	●	●	Quick Ship
	89	KTEB-332-UV-PS-H-P	120-277	Program	0.75-0.33	0.98	10	1.19	-18/0	75/167	5	F3-9	L11	●	●	Active
	65	KTEB-332-UV-PS-L-P	120-277	Program	0.53-0.24	0.98	10	0.79	-18/0	75/167	5	F3-9	L11	●	●	Active
	73	KTEB-332-UV-PS-N-P	120-277	Program	0.60-0.27	0.98	10	0.90	-18/0	75/167	5	F3-9	L11	●	●	Quick Ship
	69	KTEB-432-UV-IS-L-P	120-277	Instant	0.56-0.25	0.97	12	0.88	-18/0	75/167	5	F3-4	L6	●	●	Quick Ship
	77	KTEB-432-UV-IS-N-P	120-277	Instant	0.64-0.28	0.97	12	1.01	-18/0	75/167	5	F3-3	L6	●	●	Quick Ship
	68	KTEB-432-UV-PS-L-P	120-277	Program	0.56-0.25	0.98	10	0.82	-18/0	75/167	5	F4-6	L11	●	●	Active
	21	KTEB-432-UV-PS-N-P	120-277	Program	0.64-0.28	0.98	10	0.93	-18/0	75/167	5	F3-8	L11	●	●	Quick Ship
	83	KTEB-432-UV-IS-L-P	120-277	Instant	0.68-0.30	0.98	10	0.80	-18/0	75/167	5	F4-2	L6	●	●	Quick Ship
	94	KTEB-432-UV-IS-N-P	120-277	Instant	0.78-0.34	0.98	10	0.93	-18/0	75/167	5	F4-1	L6	●	●	Quick Ship
4	81	KTEB-432-UV-PS-L-P	120-277	Program	0.67-0.30	0.98	10	0.76	-18/0	75/167	5	F4-6	L11	●	●	Active
	24	KTEB-432-UV-PS-N-P	120-277	Program	0.77-0.34	0.98	10	0.90	-18/0	75/167	5	F4-6	L11	●	●	Quick Ship

T8 Case Styles are listed on page 1-15. T8 Wiring Diagrams are listed on pages 1-16 and 1-17.

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ELECTRONIC BALLASTS



T8

ELECTRONIC BALLASTS
T8

LAMP TYPE															APPROVALS			
NO. OF LAMPS	INPUT POWER (W)	CATALOG NUMBER	INPUT VOLTS	STARTING METHOD	LINE CURRENT	MIN. POWER FACTOR	MAX THD	BALLAST FACTOR	MIN. START TEMP (°C/°F)	MAX CASE TEMP. (°C/°F)	WARRANTY	WIRING DIAGRAM	CASE STYLE		 CEE Qualified	STATUS		
F32T8 (28W)																		
1	33	KTEB-132-UV-IS-H-P	120-277	Instant	0.28-0.13	0.97	10	1.21	-18/0	75/167	5	F1-14	L12	●	●	Active		
	21	KTEB-132-UV-IS-L-P	120-277	Instant	0.18-0.08	0.97	12	0.77	-18/0	75/167	5	F1-9	L9	●	●	Special Order		
	24	KTEB-132-UV-IS-N-P	120-277	Instant	0.20-0.09	0.98	10	0.87	-18/0	75/167	5	F1-9	L9	●	●	Quick Ship		
	36	KTEB-132-UV-PS-H-P	120-277	Program	0.30-0.13	0.98	10	1.20	-18/0	75/167	5	F1-7	L6	●	●	Active		
	24	KTEB-132-UV-PS-L-P	120-277	Program	0.21-0.10	0.96	12	0.77	-18/0	75/167	5	F1-7	L6	●	●	Active		
	29	KTEB-132-UV-PS-N-P	120-277	Program	0.24-0.11	0.97	10	0.88	-18/0	75/167	5	F1-7	L6	●	●	Quick Ship		
	40	KTEB-232-UV-IS-H-P	120-277	Instant	0.38-0.17	0.95	15	1.38	-18/0	75/167	5	F1-5	L9	●	●	Quick Ship		
	27	KTEB-232-UV-IS-L-P	120-277	Instant	0.22-0.10	0.97	10	0.95	-18/0	75/167	5	F1-4	L9	●	●	Quick Ship		
	29	KTEB-232-UV-IS-N-P	120-277	Instant	0.25-0.11	0.98	10	1.10	-18/0	75/167	5	F1-4	L9	●	●	Quick Ship		
	43	KTEB-232-UV-PS-H-P	120-277	Program	0.36-0.16	0.96	12	1.39	-18/0	75/167	5	F2-18	L6	●	●	Active		
2	30	KTEB-232-UV-PS-L-P	120-277	Program	0.25-0.11	0.97	12	0.86	-18/0	75/167	5	F2-18	L6	●	●	Active		
	35	KTEB-232-UV-PS-N-P	120-277	Program	0.29-0.13	0.96	10	1.04	-18/0	75/167	5	F2-18	L6	●	●	Quick Ship		
	64	KTEB-232-UV-IS-H-P	120-277	Instant	0.53-0.23	0.97	10	1.18	-18/0	75/167	5	F2-3	L9	●	●	Quick Ship		
	43	KTEB-232-UV-IS-L-P	120-277	Instant	0.36-0.15	0.99	10	0.77	-18/0	75/167	5	F2-4	L9	●	●	Quick Ship		
	49	KTEB-232-UV-IS-N-P	120-277	Instant	0.40-0.18	0.97	10	0.87	-18/0	75/167	5	F2-4	L9	●	●	Quick Ship		
	68	KTEB-232-UV-PS-H-P	120-277	Program	0.57-0.25	0.98	10	1.18	-18/0	75/167	5	F2-18	L6	●	●	Active		
	47	KTEB-232-UV-PS-L-P	120-277	Program	0.39-0.17	0.98	10	0.75	-18/0	75/167	5	F2-18	L6	●	●	Active		
	54	KTEB-232-UV-PS-N-P	120-277	Program	0.45-0.20	0.98	10	0.88	-18/0	75/167	5	F2-18	L6	●	●	Quick Ship		
	71	KTEB-332-UV-IS-H-P	120-277	Instant	0.65-0.28	0.98	10	1.28	-18/0	75/167	5	F2-5	L6	●	●	Quick Ship		
	52	KTEB-332-UV-IS-L-P	120-277	Instant	0.43-0.20	0.96	12	0.89	-18/0	75/167	5	F2-5	L6	●	●	Quick Ship		
3	58	KTEB-332-UV-IS-N-P	120-277	Instant	0.48-0.21	0.96	12	0.99	-18/0	75/167	5	F2-5	L6	●	●	Quick Ship		
	76	KTEB-332-UV-PS-H-P	120-277	Program	0.64-0.28	0.97	12	1.34	-18/0	75/167	5	F3-9	L11	●	●	Active		
	55	KTEB-332-UV-PS-L-P	120-277	Program	0.45-0.20	0.97	12	0.86	-18/0	75/167	5	F3-9	L11	●	●	Active		
	61	KTEB-332-UV-PS-N-P	120-277	Program	0.52-0.23	0.97	10	1.00	-18/0	75/167	5	F3-9	L11	●	●	Quick Ship		
	95	KTEB-332-UV-IS-H-P	120-277	Instant	0.86-0.38	0.98	10	1.18	-18/0	75/167	5	F3-1	L6	●	●	Quick Ship		
	52	KTEB-332-UV-IS-L-P	120-277	Instant	0.56-0.26	0.96	12	0.89	-18/0	75/167	5	F3-2	L6	●	●	Quick Ship		
	58	KTEB-332-UV-IS-N-P	120-277	Instant	0.48-0.21	0.96	12	0.99	-18/0	75/167	5	F3-2	L6	●	●	Quick Ship		
	99	KTEB-332-UV-PS-H-P	120-277	Program	0.83-0.36	0.98	10	1.18	-18/0	75/167	5	F3-9	L11	●	●	Active		
	69	KTEB-332-UV-PS-L-P	120-277	Program	0.57-0.25	0.98	10	0.75	-18/0	75/167	5	F3-9	L11	●	●	Active		
	79	KTEB-332-UV-PS-N-P	120-277	Program	0.65-0.29	0.98	10	0.88	-18/0	75/167	5	F3-9	L11	●	●	Quick Ship		
4	74	KTEB-432-UV-IS-L-P	120-277	Instant	0.57-0.27	0.97	12	0.78	-18/0	75/167	5	F3-3	L6	●	●	Quick Ship		
	84	KTEB-432-UV-IS-N-P	120-277	Instant	0.69-0.30	0.97	12	0.98	-18/0	75/167	5	F3-3	L6	●	●	Quick Ship		
	73	KTEB-432-UV-PS-L-P	120-277	Program	0.61-0.27	0.98	10	0.82	-18/0	75/167	5	F4-6	L11	●	●	Active		
	83	KTEB-432-UV-PS-N-P	120-277	Program	0.70-0.31	0.97	10	0.94	-18/0	75/167	5	F3-8	L11	●	●	Quick Ship		
	85	KTEB-432-UV-IS-L-P	120-277	Instant	0.70-0.31	0.98	10	0.77	-18/0	75/167	5	F4-1	L6	●	●	Quick Ship		
	97	KTEB-432-UV-IS-N-P	120-277	Instant	0.77-0.33	0.98	10	0.87	-18/0	75/167	5	F4-1	L6	●	●	Quick Ship		
	88	KTEB-432-UV-PS-L-P	120-277	Program	0.73-0.32	0.98	10	0.75	-18/0	75/167	5	F4-6	L11	●	●	Active		
	100	KTEB-432-UV-PS-N-P	120-277	Program	0.84-0.37	0.98	10	0.87	-18/0	75/167	5	F4-6	L11	●	●	Quick Ship		
	F32T8 (30W)																	
	1	37	KTEB-132-UV-IS-H-P	120-277	Instant	0.31-0.14	0.97	10	1.20	-18/0	75/167	5	F1-14	L12	●	●	Active	
23		KTEB-132-UV-IS-L-P	120-277	Instant	0.20-0.10	0.97	10	0.77	-18/0	75/167	5	F1-9	L9	●	●	Special Order		
26		KTEB-132-UV-IS-N-P	120-277	Instant	0.22-0.11	0.97	10	0.87	-18/0	75/167	5	F1-9	L9	●	●	Quick Ship		
38		KTEB-132-UV-PS-H-P	120-277	Program	0.32-0.14	0.98	10	1.18	-18/0	75/167	5	F1-7	L6	●	●	Active		
25		KTEB-132-UV-PS-L-P	120-277	Program	0.22-0.10	0.96	12	0.77	-18/0	75/167	5	F1-7	L6	●	●	Active		
30		KTEB-132-UV-PS-N-P	120-277	Program	0.25-0.12	0.97	10	0.88	-18/0	75/167	5	F1-7	L6	●	●	Quick Ship		
43		KTEB-232-UV-IS-H-P	120-277	Instant	0.40-0.18	0.95	15	1.38	-18/0	75/167	5	F1-5	L9	●	●	Quick Ship		
28		KTEB-232-UV-IS-L-P	120-277	Instant	0.24-0.11	0.97	10	0.92	-18/0	75/167	5	F1-4	L9	●	●	Quick Ship		
32		KTEB-232-UV-IS-N-P	120-277	Instant	0.27-0.12	0.98	12	1.05	-18/0	75/167	5	F1-4	L9	●	●	Quick Ship		
45		KTEB-232-UV-PS-H-P	120-277	Program	0.38-0.17	0.96	12	1.37	-18/0	75/167	5	F2-18	L6	●	●	Active		
	31	KTEB-232-UV-PS-L-P	120-277	Program	0.26-0.12	0.97	12	0.84	-18/0	75/167	5	F2-18	L6	●	●	Active		
	36	KTEB-232-UV-PS-N-P	120-277	Program	0.30-0.14	0.96	10	1.00	-18/0	75/167	5	F2-18	L6	●	●	Quick Ship		

T8 Case Styles are listed on page 1-15. T8 Wiring Diagrams are listed on pages 1-16 and 1-17.

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LAMP TYPE	NO. OF LAMPS	INPUT POWER (W)	CATALOG NUMBER	INPUT VOLTS	STARTING METHOD	LINE CURRENT	MIN. POWER FACTOR	MAX THD	BALLAST FACTOR	MIN. START TEMP (°C/°F)	MAX CASE TEMP. (°C/°F)	WARRANTY	WIRING DIAGRAM	CASE STYLE	APPROVALS	STATUS
															  	
F32T8 (30W) (continued)																
2	70	KTEB-232-UV-IS-H-P	120-277	Instant	0.59-0.25	0.97	10	1.18	-18/0	75/167	5	F2-3	L9	●	●	Quick Ship
	46	KTEB-232-UV-IS-L-P	120-277	Instant	0.38-0.17	0.97	10	0.77	-18/0	75/167	5	F2-4	L9	●	●	Quick Ship
	52	KTEB-232-UV-IS-N-P	120-277	Instant	0.42-0.19	0.97	10	0.87	-18/0	75/167	5	F2-4	L9	●	●	Quick Ship
	72	KTEB-232-UV-PS-H-P	120-277	Program	0.60-0.26	0.98	10	1.18	-18/0	75/167	5	F2-18	L6	●	●	Active
	48	KTEB-232-UV-PS-L-P	120-277	Program	0.41-0.18	0.98	10	0.75	-18/0	75/167	5	F2-18	L6	●	●	Active
	56	KTEB-232-UV-PS-N-P	120-277	Program	0.47-0.21	0.98	10	0.88	-18/0	75/167	5	F2-18	L6	●	●	Quick Ship
	78	KTEB-332-UV-IS-H-P	120-277	Instant	0.66-0.29	0.98	10	1.28	-18/0	75/167	5	F2-5	L6	●	●	Quick Ship
	54	KTEB-332-UV-IS-L-P	120-277	Instant	0.45-0.20	0.96	12	0.88	-18/0	75/167	5	F2-5	L6	●	●	Quick Ship
	60	KTEB-332-UV-IS-N-P	120-277	Instant	0.50-0.22	0.97	12	0.98	-18/0	75/167	5	F2-5	L6	●	●	Quick Ship
	80	KTEB-332-UV-PS-H-P	120-277	Program	0.67-0.30	0.97	12	1.33	-18/0	75/167	5	F3-9	L11	●	●	Active
	56	KTEB-332-UV-PS-L-P	120-277	Program	0.47-0.21	0.97	12	0.84	-18/0	75/167	5	F3-9	L11	●	●	Active
	63	KTEB-332-UV-PS-N-P	120-277	Program	0.52-0.23	0.97	10	0.95	-18/0	75/167	5	F3-9	L11	●	●	Quick Ship
3	104	KTEB-332-UV-IS-H-P	120-277	Instant	0.86-0.37	0.98	10	1.18	-18/0	75/167	5	F3-1	L6	●	●	Quick Ship
	70	KTEB-332-UV-IS-L-P	120-277	Instant	0.58-0.25	0.98	10	0.77	-18/0	75/167	5	F3-2	L6	●	●	Quick Ship
	79	KTEB-332-UV-IS-N-P	120-277	Instant	0.65-0.28	0.98	10	0.87	-18/0	75/167	5	F3-2	L6	●	●	Quick Ship
	104	KTEB-332-UV-PS-H-P	120-277	Program	0.88-0.38	0.98	10	1.18	-18/0	75/167	5	F3-9	L11	●	●	Active
	73	KTEB-332-UV-PS-L-P	120-277	Program	0.60-0.27	0.98	10	0.75	-18/0	75/167	5	F3-9	L11	●	●	Active
	82	KTEB-332-UV-PS-N-P	120-277	Program	0.68-0.30	0.98	10	0.88	-18/0	75/167	5	F3-9	L11	●	●	Quick Ship
	75	KTEB-432-UV-IS-L-P	120-277	Instant	0.63-0.27	0.97	12	0.81	-18/0	75/167	5	F3-3	L6	●	●	Quick Ship
	85	KTEB-432-UV-IS-N-P	120-277	Instant	0.71-0.31	0.97	12	0.93	-18/0	75/167	5	F3-3	L6	●	●	Quick Ship
4	76	KTEB-432-UV-PS-L-P	120-277	Program	0.63-0.28	0.98	10	0.79	-18/0	75/167	5	F4-6	L11	●	●	Active
	86	KTEB-432-UV-PS-N-P	120-277	Program	0.72-0.32	0.98	10	0.88	-18/0	75/167	5	F3-8	L11	●	●	Quick Ship
	91	KTEB-432-UV-IS-L-P	120-277	Instant	0.75-0.32	0.98	10	0.77	-18/0	75/167	5	F4-1	L6	●	●	Quick Ship
	103	KTEB-432-UV-IS-N-P	120-277	Instant	0.85-0.36	0.98	10	0.87	-18/0	75/167	5	F4-1	L6	●	●	Quick Ship
4	91	KTEB-432-UV-PS-L-P	120-277	Program	0.77-0.34	0.98	10	0.72	-18/0	75/167	5	F4-6	L11	●	●	Active
	104	KTEB-432-UV-PS-N-P	120-277	Program	0.87-0.38	0.98	10	0.86	-18/0	75/167	5	F4-6	L11	●	●	Quick Ship
F32T8 (32W)																
1	35	KTEB-126-1-TP	120	Rapid	0.51	0.50	130	1.10	-18/0	75/167	3	F1-6	S1	●	●	Active
		KTEB-126-1-TP-LC	120	Rapid	0.51	0.50	130	1.10	-18/0	75/167	3	F1-6	L2	●	●	Active
	32	KTEB-132-1-TP-EMI	120	Rapid	0.48	0.50	130	0.95	-18/0	75/167	3	F1-8	L7	●	●	Quick Ship
	39	KTEB-132-UV-IS-H-P	120-277	Instant	0.33-0.15	0.97	10	1.18	-18/0	75/167	5	F1-14	L12	●	●	Active
	25	KTEB-132-UV-IS-L-P	120-277	Instant	0.22-0.11	0.98	10	0.77	-18/0	75/167	5	F1-9	L9	●	●	Special Order
	28	KTEB-132-UV-IS-N-P	120-277	Instant	0.24-0.12	0.98	10	0.87	-18/0	75/167	5	F1-9	L9	●	●	Quick Ship
	40	KTEB-132-UV-PS-H-P	120-277	Program	0.34-0.15	0.98	10	1.18	-18/0	75/167	5	F1-7	L6	●	●	Active
	27	KTEB-132-UV-PS-L-P	120-277	Program	0.23-0.11	0.96	12	0.77	-18/0	75/167	5	F1-7	L6	●	●	Active
	31	KTEB-132-UV-PS-N-P	120-277	Program	0.27-0.12	0.98	10	0.88	-18/0	75/167	5	F1-7	L6	●	●	Quick Ship
	36	KTEB-232LBF-1-TP-PIC-EV	120	Instant	0.30	0.98	10	1.10	-18/0	75/167	5	F1-9	L9	●	●	Quick Ship
	38	KTEB-232LBF-1-TP-PIC-SL	120	Instant	0.32	0.99	10	1.15	-18/0	75/167	5	F1-5	L6	●	●	Active
	37	KTEB-232RIS-1-TP-SL	120	Instant	0.55	0.50	150	1.00	-18/0	75/167	3	F1-9	N3	●	●	Quick Ship
	47	KTEB-232-UV-IS-H-P	120-277	Instant	0.42-0.19	0.96	12	1.38	-18/0	75/167	5	F1-5	L9	●	●	Quick Ship
	30	KTEB-232-UV-IS-L-P	120-277	Instant	0.25-0.11	0.98	10	0.95	-18/0	75/167	5	F1-4	L9	●	●	Quick Ship
	33	KTEB-232-UV-IS-N-P	120-277	Instant	0.28-0.12	0.98	10	1.05	-18/0	75/167	5	F1-4	L9	●	●	Quick Ship
	50	KTEB-232-UV-PS-H-P	120-277	Program	0.42-0.19	0.97	12	1.42	-18/0	75/167	5	F2-18	L6	●	●	Active
	33	KTEB-232-UV-PS-L-P	120-277	Program	0.28-0.12	0.98	10	0.86	-18/0	75/167	5	F2-18	L6	●	●	Active
	37	KTEB-232-UV-PS-N-P	120-277	Program	0.31-0.14	0.93	10	1.05	-18/0	75/167	5	F2-18	L6	●	●	Quick Ship

T8 Case Styles are listed on page 1-15. T8 Wiring Diagrams are listed on pages 1-16 and 1-17.

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ELECTRONIC BALLASTS

T8

ELECTRONIC BALLASTS
T8

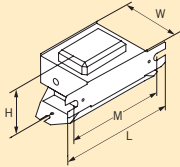
LAMP TYPE	NO. OF LAMPS	INPUT POWER (W)	CATALOG NUMBER	INPUT VOLTS	STARTING METHOD	LINE CURRENT	MIN. POWER FACTOR	MAX THD	BALLAST FACTOR	MIN. START TEMP (°C/°F)	MAX CASE TEMP. (°C/°F)	WARRANTY	WIRING DIAGRAM	CASE STYLE	APPROVALS	STATUS
															  	
F32T8 (32W) (continued)																
2	59		KTEB-232LBF-1-TP-PIC-EV	120	Instant	0.50	0.99	10	0.88	-18/0	75/167	5	F1-4	L9	● ●	Quick Ship
	58		KTEB-232LBF-1-TP-PIC-SL	120	Instant	0.49	0.99	10	0.88	-18/0	75/167	5	F2-3	L6	● ●	Active
	57		KTEB-232RIS-1-TP-SL	120	Instant	0.78	0.60	150	0.88	-18/0	75/167	3	F2-3	N3	● ●	Quick Ship
	74		KTEB-232-UV-IS-H-P	120-277	Instant	0.62-0.26	0.99	10	1.18	-18/0	75/167	5	F2-3	L9	● ●	Quick Ship
	48		KTEB-232-UV-IS-L-P	120-277	Instant	0.40-0.17	0.98	10	0.77	-18/0	75/167	5	F2-4	L9	● ●	Quick Ship
	55		KTEB-232-UV-IS-N-P	120-277	Instant	0.45-0.20	0.99	10	0.87	-18/0	75/167	5	F2-4	L9	● ●	Quick Ship
	78		KTEB-232-UV-PS-H-P	120-277	Program	0.65-0.29	0.98	10	1.18	-18/0	75/167	5	F2-18	L6	● ●	Active
	52		KTEB-232-UV-PS-L-P	120-277	Program	0.44-0.19	.098	10	0.77	-18/0	75/167	5	F2-18	L6	● ●	Active
	60		KTEB-232-UV-PS-N-P	120-277	Program	0.50-0.22	0.98	10	0.88	-18/0	75/167	5	F2-18	L6	● ●	Quick Ship
	68		KTEB-240-1-TP	120	Rapid	1.00	0.50	150	1.05	-18/0	75/167	3	F2-9	L1	● ●	Quick Ship
	62		KTEB-2C72-1-TP	120	Rapid	0.89	0.50	130	0.97	-18/0	75/167	3	F2-8	L1	● ●	Quick Ship
	83		KTEB-332-UV-IS-H-P	120-277	Instant	0.71-0.32	0.98	10	1.27	-18/0	75/167	5	F2-5	L6	● ●	Quick Ship
	58		KTEB-332-UV-IS-L-P	120-277	Instant	0.50-0.22	0.97	12	0.89	-18/0	75/167	5	F2-5	L6	● ●	Quick Ship
	64		KTEB-332-UV-IS-N-P	120-277	Instant	0.53-0.23	0.97	12	0.99	-18/0	75/167	5	F2-5	L6	● ●	Quick Ship
3	88		KTEB-332-UV-PS-H-P	120-277	Program	0.73-0.32	0.98	10	1.35	-18/0	75/167	5	F3-9	L11	● ●	Active
	58		KTEB-332-UV-PS-L-P	120-277	Program	0.49-0.21	0.98	10	0.86	-18/0	75/167	5	F3-9	L11	● ●	Active
	69		KTEB-332-UV-PS-N-P	120-277	Program	0.57-0.25	0.98	10	0.98	-18/0	75/167	5	F3-9	L11	● ●	Quick Ship
	104		KTEB-332-UV-IS-H-P	120-277	Instant	0.86-0.37	0.98	10	1.18	-18/0	75/167	5	F3-1	L6	● ●	Quick Ship
	70		KTEB-332-UV-IS-L-P	120-277	Instant	0.58-0.25	0.98	10	0.77	-18/0	75/167	5	F3-2	L6	● ●	Quick Ship
	79		KTEB-332-UV-IS-N-P	120-277	Instant	0.65-0.28	0.98	10	0.87	-18/0	75/167	5	F3-2	L6	● ●	Quick Ship
	114		KTEB-332-UV-PS-H-P	120-277	Program	0.96-0.14	0.98	10	1.18	-18/0	75/167	5	F3-9	L11	● ●	Active
	79		KTEB-332-UV-PS-L-P	120-277	Program	0.65-0.29	0.98	10	0.77	-18/0	75/167	5	F3-9	L11	● ●	Active
	88		KTEB-332-UV-PS-N-P	120-277	Program	0.73-0.32	0.98	10	0.88	-18/0	75/167	5	F3-9	L11	● ●	Quick Ship
	90		KTEB-432LBF-1-TP-PIC	120	Instant	0.75	0.99	10	0.90	-18/0	75/167	5	F3-3	L5	● ●	Quick Ship
4	83		KTEB-432RIS-1-TP	120	Instant	1.29	0.50	130	0.87	-18/0	75/167	3	F3-3	L5	● ●	Quick Ship
	81		KTEB-432-UV-IS-L-P	120-277	Instant	0.68-0.28	0.97	12	0.86	-18/0	75/167	5	F3-3	L6	● ●	Quick Ship
	89		KTEB-432-UV-IS-N-P	120-277	Instant	0.74-0.32	0.98	10	0.94	-18/0	75/167	5	F3-3	L6	● ●	Quick Ship
	78		KTEB-432-UV-PS-L-P	120-277	Program	0.66-0.29	0.98	10	0.79	-18/0	75/167	5	F4-6	L11	● ●	Active
	95		KTEB-432-UV-PS-N-P	120-277	Program	0.79-0.35	0.98	10	0.94	-18/0	75/167	5	F3-8	L11	● ●	Quick Ship
	112		KTEB-432LBF-1-TP-PIC	120	Instant	0.93	0.99	10	0.88	-18/0	75/167	5	F4-1	L5	● ●	Quick Ship
	99		KTEB-432RIS-1-TP	120	Instant	1.47	0.50	120	0.80	-18/0	75/167	3	F4-1	L5	● ●	Quick Ship
	97		KTEB-432-UV-IS-L-P	120-277	Instant	0.80-0.34	0.98	10	0.77	-18/0	75/167	5	F4-1	L6	● ●	Quick Ship
	109		KTEB-432-UV-IS-N-P	120-277	Instant	0.91-0.38	0.99	10	0.87	-18/0	75/167	5	F4-1	L6	● ●	Quick Ship
	97		KTEB-432-UV-PS-L-P	120-277	Program	0.82-0.35	0.99	10	0.74	-18/0	75/167	5	F4-6	L11	● ●	Active
	114		KTEB-432-UV-PS-N-P	120-277	Program	0.95-0.42	0.98	10	0.87	-18/0	75/167	5	F4-6	L11	● ●	Quick Ship

T8 Case Styles are listed on page 1-15. T8 Wiring Diagrams are listed on pages 1-16 and 1-17.

Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

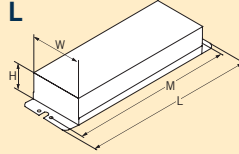
CASE STYLES

CASE B



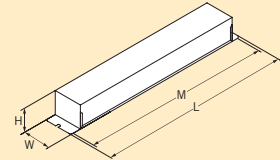
CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
B2	2.75"	3.06"	1.25"	1.72"

CASE L



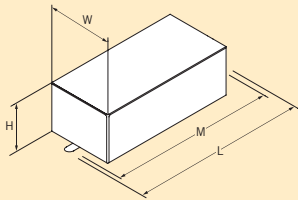
CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
L1	6.00"	6.46"	1.89"	1.00"
L2	6.00"	6.46"	1.89"	1.15"
L4	8.90"	9.45"	1.15"	1.26"
L5	8.90"	9.50"	1.70"	1.15"
L6	8.90"	9.50"	1.38"	1.18"
L7	6.00"	6.46"	1.37"	1.00"
L9	8.90"	9.57"	1.13"	1.07"
L11	8.90"	9.50"	1.65"	1.18"
L12	8.90"	9.50"	1.16"	1.05"

CASE N



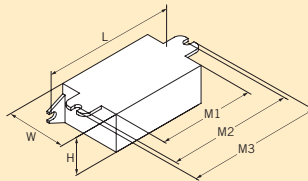
CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
N3	9.00"	9.60"	1.16"	0.88"

CASE S



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
S1	3.12"	3.45"	1.21"	1.21"

CASE X



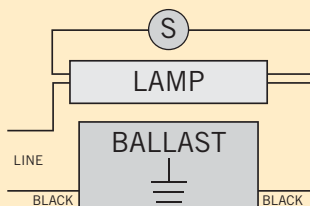
CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
X1	2.80"	3.07"	1.16"	1.00"

ELECTRONIC BALLASTS

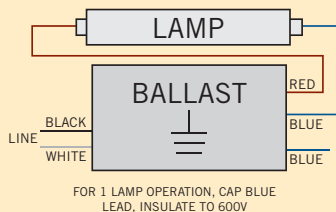
T8

WIRING DIAGRAMS

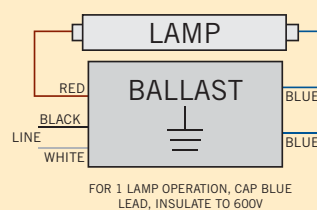
F1-1



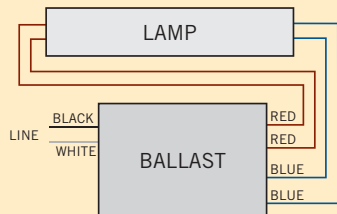
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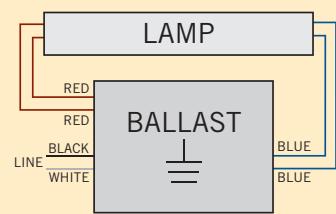
F1-5



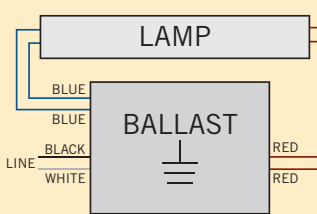
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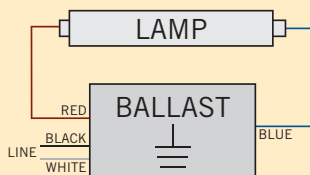
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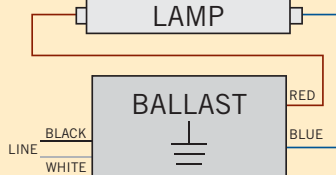
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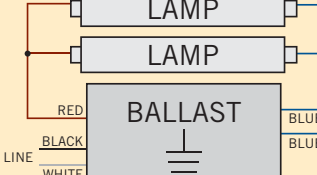
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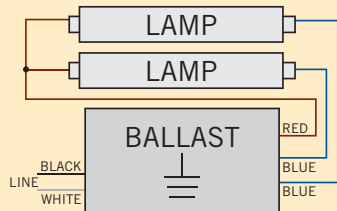
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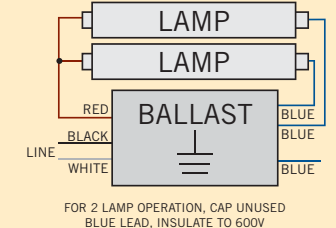
F2-3



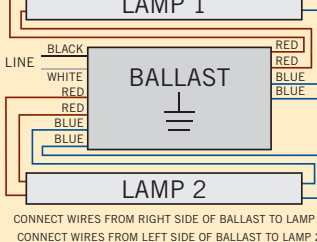
F2-4



F2-5



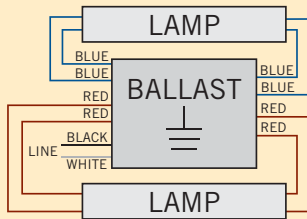
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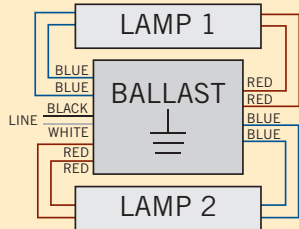
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WIRING DIAGRAMS

F2-9

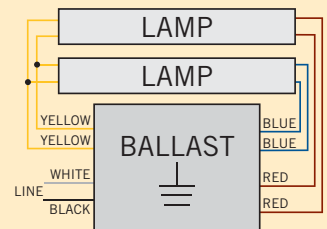


F2-10



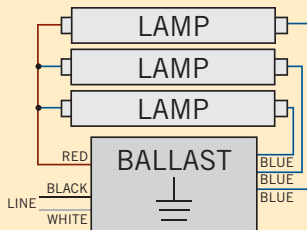
CONNECT WIRES FROM TOP SIDE OF BALLAST TO LAMP 1
CONNECT WIRES FROM BOTTOM SIDE OF BALLAST TO LAMP 2

F2-18

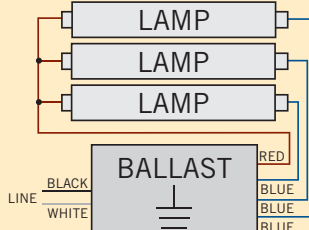


FOR 1 LAMP OPERATIONS, CAP 1 YELLOW LEAD

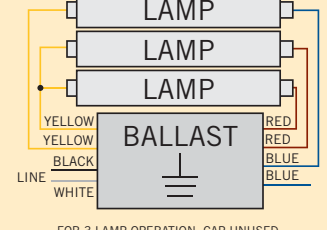
F3-1



F3-2

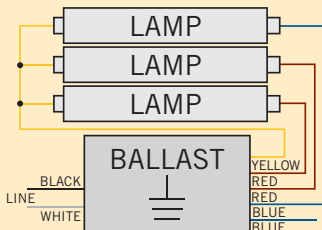


F3-3



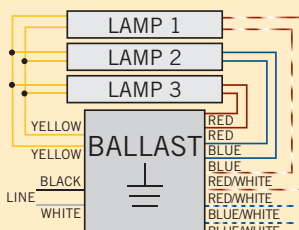
FOR 3 LAMP OPERATION, CAP UNUSED
BLUE LEAD, INSULATE TO 600V

F3-4



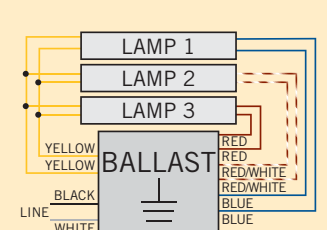
FOR 3 LAMP OPERATION, CAP BLUE LEAD,
INSULATE TO 600V

F3-8

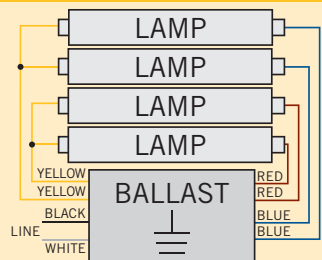


CAP UNUSED BLUE/WHITE LEAD, INSULATE TO 600V

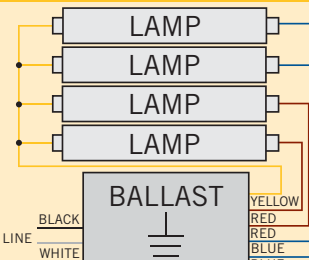
F3-9



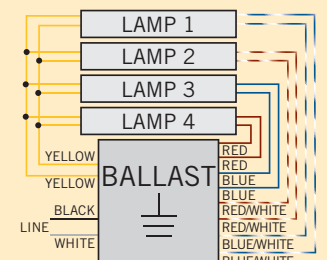
F4-1



F4-2



F4-6



ELECTRONIC BALLASTS

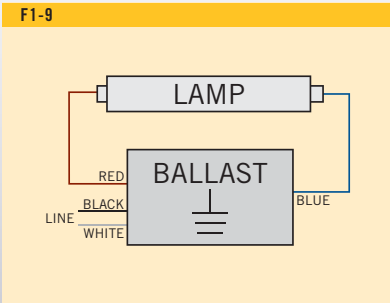
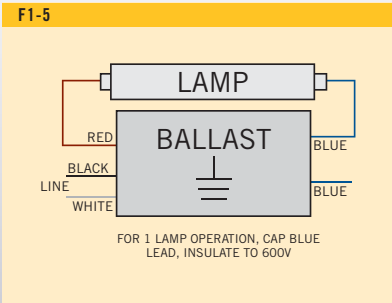
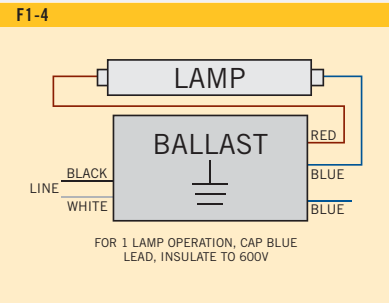


T8 Lamps Over 48"

ELECTRONIC BALLASTS
T8 Lamps Over 48"

LAMP TYPE	NO. OF LAMPS	INPUT POWER (W)	CATALOG NUMBER	INPUT VOLTS	STARTING METHOD	LINE CURRENT	MIN. POWER FACTOR	MAX THD	BALLAST FACTOR	MIN. START TEMP (°C/°F)	MAX CASE TEMP. (°C/°F)	WARRANTY	WIRING DIAGRAM	CASE STYLE	APPROVALS	STATUS
F40T8																
1	43		KTEB-232LBF-1-TP-PIC-EV	120	Instant	0.37	0.98	10	1.00	-18/0	75/167	5	F1-9	L9		Quick Ship
			KTEB-232LBF-1-TP-PIC-SL	120	Instant	0.37	0.99	10	1.00	-18/0	75/167	5	F1-5	L6		Active
	44		KTEB-232LBF-UV-TP-PIC-SL	120-277	Instant	0.37-0.16	0.99	10	1.00	-18/0	75/167	5	F1-5	L6		Special Order
	42		KTEB-232RIS-1-TP-SL	120	Instant	0.60	0.57	150	1.00	-18/0	75/167	3	F1-9	N3		Quick Ship
	50		KTEB-232-UV-IS-H-P	120-277	Instant	0.43-0.19	0.99	10	1.20	-18/0	75/167	5	F1-5	L9		Quick Ship
	35		KTEB-232-UV-IS-L-P	120-277	Instant	0.30-0.13	0.98	10	0.85	-18/0	75/167	5	F1-4	L9		Quick Ship
	39		KTEB-232-UV-IS-N-P	120-277	Instant	0.33-0.15	0.99	10	0.95	-18/0	75/167	5	F1-4	L9		Quick Ship
	58		KTEB-232-UV-PS-H-P	120-277	Program	0.49-0.22	0.97	12	1.35	-18/0	75/167	5	F2-18	L6		Active
	39		KTEB-232-UV-PS-L-P	120-277	Program	0.32-0.14	0.98	10	0.82	-18/0	75/167	5	F2-18	L6		Active
	45		KTEB-232-UV-PS-N-P	120-277	Program	0.38-0.17	0.97	10	0.99	-18/0	75/167	5	F2-18	L6		Quick Ship
2	54		KTEB-454HO-UV-PS-SL	120-277	Program	0.44-0.21	0.93	15	0.90	-18/0	90/194	5	F3-7	L12		Quick Ship
	77		KTEB-332LBF-UV-TP-PIC	120-277	Instant	0.28-0.65	0.98	10	0.88	-18/0	75/167	5	F2-5	L5		Special Order
	101		KTEB-332-UV-IS-H-P	120-277	Instant	0.84-0.36	0.99	10	1.25	-18/0	75/167	5	F2-5	L6		Quick Ship
	68		KTEB-332-UV-IS-L-P	120-277	Instant	0.57-0.27	0.98	10	0.89	-18/0	75/167	5	F2-5	L6		Quick Ship
	77		KTEB-332-UV-IS-N-P	120-277	Instant	0.64-0.27	0.98	10	1.00	-18/0	75/167	5	F2-5	L6		Quick Ship
	104		KTEB-332-UV-PS-H-P	120-277	Program	0.88-0.38	0.98	10	1.18	-18/0	75/167	5	F3-9	L11		Active
	74		KTEB-332-UV-PS-L-P	120-277	Program	0.61-0.27	0.98	10	0.82	-18/0	75/167	5	F3-9	L11		Active
	81		KTEB-332-UV-PS-N-P	120-277	Program	0.67-0.30	0.98	10	0.95	-18/0	75/167	5	F3-9	L11		Quick Ship
3	101		KTEB-454HO-UV-PS-SL	120-277	Program	0.84-0.37	0.97	10	0.90	-18/0	90/194	5	F3-6, F4-5	L12		Quick Ship
	108		KTEB-432LBF-1-TP-PIC	120	Instant	0.40	0.98	10	0.88	-18/0	75/167	5	F3-3	L5		Quick Ship
			KTEB-432LBF-UV-TP-PIC	120-277	Instant	0.40-0.90	0.98	10	0.85	-18/0	75/167	5	F3-3	L5		Special Order
	97		KTEB-432-UV-IS-L-P	120-277	Instant	0.81-0.35	0.98	10	0.90	-18/0	75/167	5	F3-3	L6		Quick Ship
	111		KTEB-432-UV-IS-N-P	120-277	Instant	0.93-0.39	0.99	10	0.95	-18/0	75/167	5	F3-3	L6		Quick Ship
	99		KTEB-432-UV-PS-L-P	120-277	Program	0.83-0.36	0.99	10	0.79	-18/0	75/167	5	F4-6	L11		Active
4	111		KTEB-432-UV-PS-N-P	120-277	Program	0.93-0.41	0.98	10	0.88	-18/0	75/167	5	F3-8	L11		Quick Ship
	153		KTEB-454HO-UV-PS-SL	120-277	Program	1.28-0.56	0.98	10	0.90	-18/0	90/194	5	F3-6, F3-7	L12		Quick Ship
4	203		KTEB-454HO-UV-PS-SL	120-277	Program	1.69-0.73	0.99	10	0.89	-18/0	90/194	5	F4-5	L12		Quick Ship

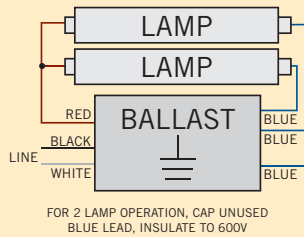
WIRING DIAGRAMS



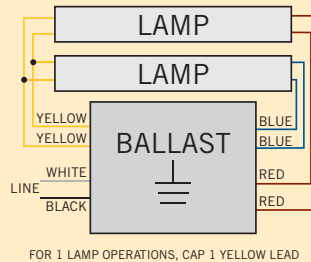
Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

WIRING DIAGRAMS (continued)

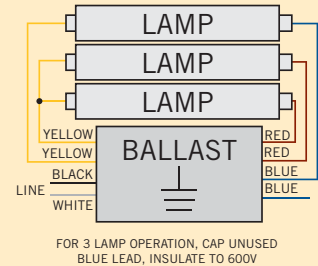
F2-5



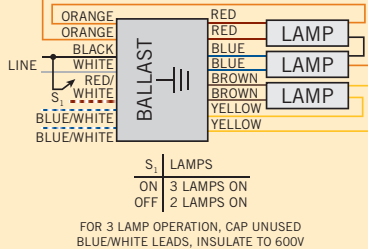
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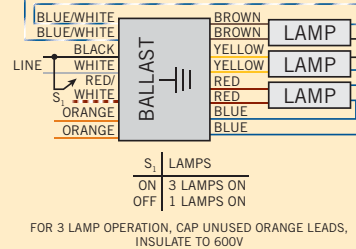
F3-3



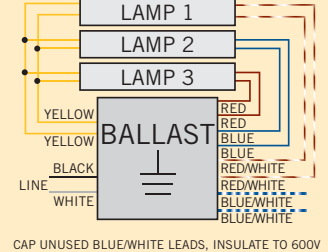
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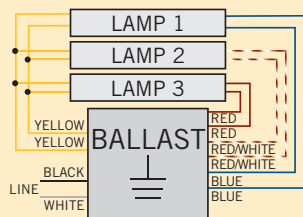
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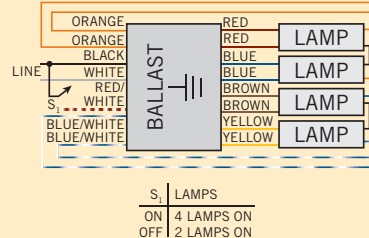
F3-8



F3-9

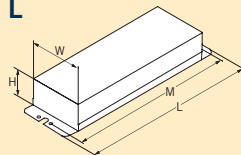


F4-5



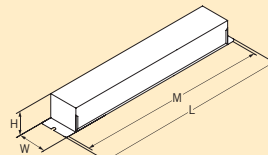
CASE STYLES

CASE L



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
L5	8.90"	9.50"	1.70"	1.15"
L6	8.90"	9.50"	1.38"	1.18"
L9	8.90"	9.57"	1.13"	1.07"
L11	8.90"	9.50"	1.65"	1.18"
L12	9.00"	9.45"	2.28"	1.03"

CASE N



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
N3	9.00"	9.60"	1.16"	0.88"

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ELECTRONIC BALLASTS



T8 Lamps Over 48"

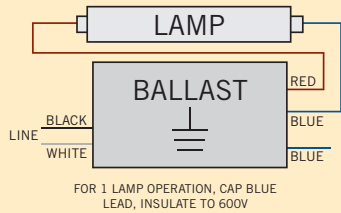
ELECTRONIC BALLASTS
T8 Lamps Over 48"

LAMP TYPE	INPUT POWER (W)	CATALOG NUMBER	INPUT VOLTS	STARTING METHOD	LINE CURRENT	MIN. POWER FACTOR	MAX THD	BALLAST FACTOR	MIN. START TEMP (°C/°F)	MAX CASE TEMP. (°C/°F)	WARRANTY	WIRING DIAGRAM	CASE STYLE	APPROVALS	STATUS
NO. OF LAMPS															
F72T8															
1	52	KTEB-259-UV-TP-PIC	120-277	Instant	0.43-0.19	0.97	12	1.05	-18/0	75/167	5	F1-5	L3		Quick Ship
2	80	KTEB-259-UV-TP-PIC	120-277	Instant	0.67-0.29	0.99	10	0.88	-18/0	75/167	5	F2-3	L3		Quick Ship
F96T8															
1	70	KTEB-259-UV-TP-PIC	120-277	Instant	0.58-0.26	0.99	10	1.05	-18/0	75/167	5	F1-5	L3		Quick Ship
2	112	KTEB-259-UV-TP-PIC	120-277	Instant	0.94-0.41	0.99	10	0.88	-18/0	75/167	5	F2-3	L3		Quick Ship
F96T8HO															
1	94	KTEB-286HO-UV-IS-N	120-277	Instant	0.78-0.35	0.97	10	1.05	-18/0	75/167	5	F1-4	D11		Quick Ship
2	155	KTEB-286HO-UV-IS-N	120-277	Instant	1.30-0.60	0.97	10	0.89	-18/0	75/167	5	F2-4	D11		Quick Ship

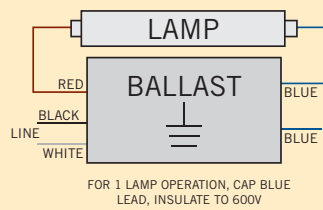
Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

WIRING DIAGRAMS

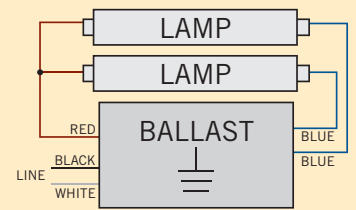
F1-4



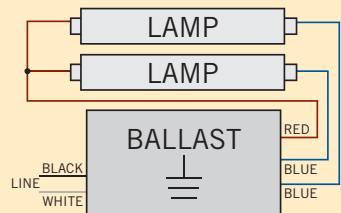
F1-5



F2-3

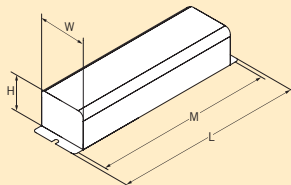


F2-4



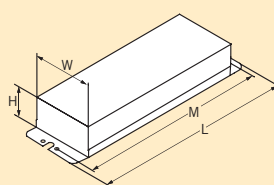
CASE STYLES

CASE D



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
D11	8.50"	9.50"	2.30"	1.70"

CASE L



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
L3	8.90"	9.45"	1.80"	1.37"

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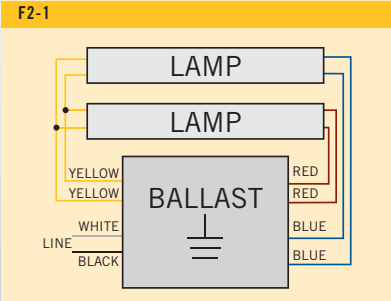
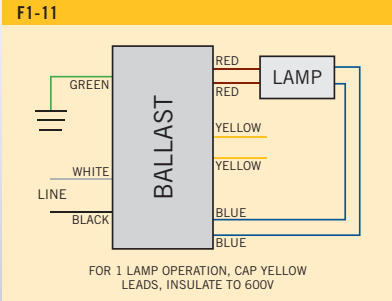
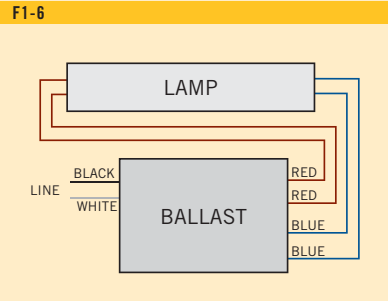
ELECTRONIC BALLASTS

T5

ELECTRONIC BALLASTS
T5

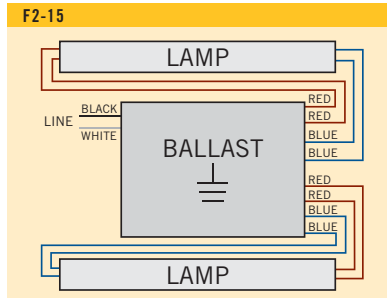
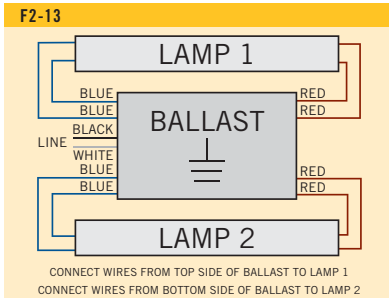
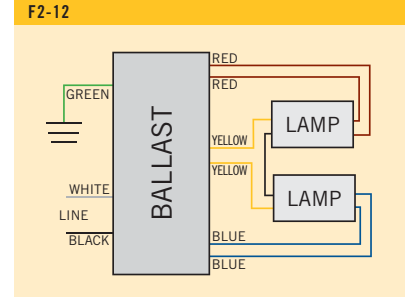
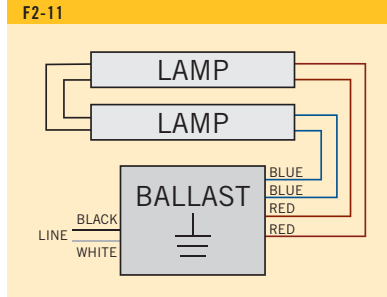
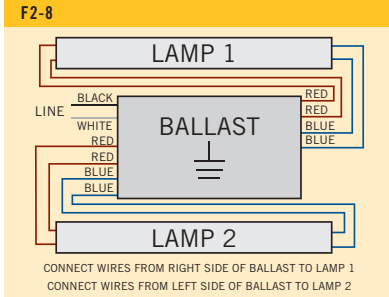
LAMP TYPE												WARRANTY			APPROVALS		
NO. OF LAMPS	INPUT POWER (W)	CATALOG NUMBER	INPUT VOLTS	STARTING METHOD	LINE CURRENT	MIN. POWER FACTOR	MAX THD	BALLAST FACTOR	MIN. START TEMP (°C/°F)	MAX CASE TEMP. (°C/°F)			WIRING DIAGRAM	CASE STYLE			STATUS
															LISTED		
F4T5																	
1	6	KTEB-108-1-TP-FC	120	Rapid	0.10	0.50	160	1.05	-18/0	75/167	3	F1-6	V1			Active	
2	8	KTEB-108-1-TP-FC	120	Rapid	0.12	0.50	160	1.00	-18/0	75/167	3	F2-11	V1			Active	
F6T5																	
1	8	KTEB-108-1-TP-FC	120	Rapid	0.12	0.50	160	1.00	-18/0	75/167	3	F1-6	V1			Active	
2	14	KTEB-114-1-TP-FC	120	Rapid	0.23	0.50	150	1.00	-18/0	75/167	3	F2-11	V1			Quick Ship	
F8T5																	
1	8.5	KTEB-108-1-TP-FC	120	Rapid	0.13	0.50	130	1.00	-18/0	75/167	3	F1-6	V1			Active	
	10	KTEB-113-1-TP-SL-MB	120	Rapid	0.17	0.50	150	1.10	-18/0	75/167	3	F1-6	P2			Active	
2	16	KTEB-114-1-TP-FC	120	Rapid	0.25	0.50	150	0.95	-18/0	75/167	3	F2-11	V1			Quick Ship	
	17	KTEB-208-1-TP-SL-MB	120	Rapid	0.28	0.50	150	0.95	-18/0	75/167	3	F2-8	P1			Quick Ship	
F13T5																	
1	25	KTEB-113-1-TP-SL-MB	120	Rapid	0.25	0.50	150	0.95	-18/0	75/167	3	F1-6	P2			Active	
	14	KTEB-114-1-TP-FC	120	Rapid	0.22	0.50	150	0.95	-18/0	75/167	3	F1-6	V1			Quick Ship	
2	28	KTEB-213-1-TP-SL-MB	120	Rapid	0.43	0.50	150	0.95	-18/0	75/167	3	F2-8	P1			Quick Ship	
F14T5																	
1	15	KTEB-114-1-TP-FC	120	Rapid	0.23	0.50	150	0.95	-18/0	75/167	3	F1-6	V1			Quick Ship	
	19	KTEB-228HE-UV-PS-SL	120-277	Program	0.16-0.08	0.92	15	1.12	-18/0	90/194	5	F2-1	L11			Quick Ship	
		KTEB-228HE-UV-TP-PS	120-277	Program	0.16-0.07	0.90	20	1.07	-18/0	90/194	5	F1-11	U4			Quick Ship	
		KTEB-235HE-UV-TP-PS	120-277	Program	0.16-0.07	0.90	20	1.07	-18/0	90/194	5	F1-11	U4			Special Order	
2	31	KTEB-128-1-TP-FC	120	Rapid	0.45	0.57	150	0.95	-18/0	75/167	3	F2-11	V1			Active	
	30	KTEB-221PS-1-TP	120	Program	0.44	0.50	130	0.95	-18/0	75/167	3	F2-13	L7			Active	
		KTEB-228-1-TP-PH-SL	120	Preheat	0.44	0.50	130	0.95	-18/0	75/167	3	F2-15	N1			Active	
	34	KTEB-228HE-UV-PS-SL	120-277	Program	0.28-0.13	0.96	12	1.04	-18/0	90/194	5	F2-1	L11			Quick Ship	
		KTEB-228HE-UV-TP-PS	120-277	Program	0.29-0.13	0.98	10	1.06	-18/0	90/194	5	F2-12	U4			Quick Ship	
	37	KTEB-235HE-UV-TP-PS	120-277	Program	0.29-0.13	0.98	10	1.06	-18/0	90/194	5	F2-12	U4			Special Order	

WIRING DIAGRAMS



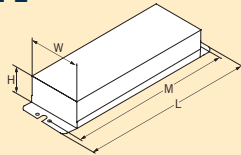
Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

WIRING DIAGRAMS (continued)



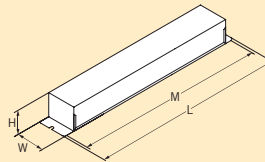
CASE STYLES

CASE L



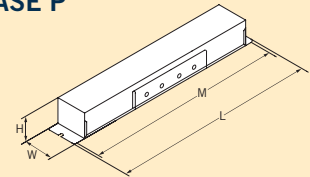
CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
L7	6.00"	6.46"	1.37"	1.00"
L11	8.96"	9.45"	1.35"	1.06"

CASE N



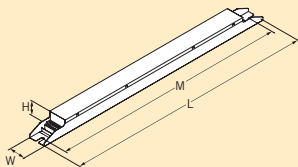
CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
N1	8.75"	9.00"	0.95"	0.95"

CASE P



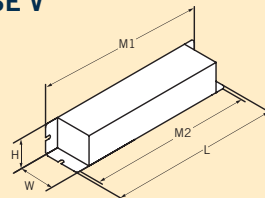
CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
P1	8.75"	9.00"	0.95"	0.95"
P2	7.25"	7.50"	0.95"	0.95"

CASE U



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
U4	16.34"	16.70"	1.18"	1.00"

CASE V



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
V1	5.60"	5.90"	0.76"	0.76"

Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

ELECTRONIC BALLASTS

T5

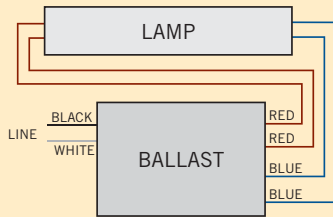
ELECTRONIC BALLASTS
T5

LAMP TYPE	NO. OF LAMPS	INPUT POWER (W)	CATALOG NUMBER	INPUT VOLTS	STARTING METHOD	LINE CURRENT	MIN. POWER FACTOR	MAX THD	BALLAST FACTOR	MIN. START TEMP (°C/°F)	MAX CASE TEMP. (°C/°F)	WARRANTY	WIRING DIAGRAM	CASE STYLE	APPROVALS	STATUS
															 	
F21T5																
1	21	KTEB-114-1-TP-FC	120	Rapid	0.30	0.50	150	0.80	-18/0	75/167	3	F1-6	V1	●	●	Quick Ship
	24	KTEB-128-1-TP-FC	120	Rapid	0.34	0.50	150	1.00	-18/0	75/167	3	F1-6	V1	●	●	Active
	22	KTEB-135HE-1-TP	120	Rapid	0.34	0.50	150	1.00	-18/0	75/167	3	F1-6	N1	●	●	Quick Ship
	26	KTEB-228HE-UV-PS-SL	120-277	Program	0.22-0.10	0.95	12	1.06	-18/0	90/194	5	F2-1	L11	●		Quick Ship
	26	KTEB-228HE-UV-TP-PS	120-277	Program	0.21-0.10	0.95	15	1.03	-18/0	90/194	5	F1-11	U4	●		Quick Ship
	56	KTEB-235HE-UV-TP-PS	120-277	Program	0.21-0.10	0.95	15	1.03	-18/0	90/194	5	F1-11	U4	●		Special Order
2	41	KTEB-221PS-1-TP	120	Program	0.60	0.50	130	0.90	-18/0	75/167	3	F2-13	L7	●	●	Active
		KTEB-228-1-TP-PH-SL	120	Preheat	0.60	0.50	130	0.90	-18/0	75/167	3	F2-15	N1	●	●	Active
	51	KTEB-228HE-UV-PS-SL	120-277	Program	0.42-0.19	0.98	10	1.04	-18/0	90/194	5	F2-1	L11	●		Quick Ship
	48	KTEB-228HE-UV-TP-PS	120-277	Program	0.40-0.17	0.98	10	1.02	-18/0	90/194	5	F2-12	U4	●		Quick Ship
		KTEB-235HE-UV-TP-PS	120-277	Program	0.40-0.17	0.98	10	1.02	-18/0	90/194	5	F2-12	U4	●		Special Order
F28T5																
1	30	KTEB-128-1-TP-FC	120	Rapid	0.42	0.50	130	0.95	-18/0	75/167	3	F1-6	V1	●	●	Active
	28	KTEB-135HE-1-TP	120	Rapid	0.41	0.50	130	0.92	-18/0	75/167	3	F1-6	N1	●	●	Quick Ship
		KTEB-228HE-UV-PS-SL	120-277	Program	0.28-0.13	0.95	12	1.04	-18/0	90/194	5	F2-1	L11	●		Quick Ship
	33	KTEB-228HE-UV-TP-PS	120-277	Program	0.28-0.12	0.98	10	1.04	-18/0	90/194	5	F1-11	U4	●		Quick Ship
		KTEB-235HE-UV-TP-PS	120-277	Program	0.28-0.12	0.98	10	1.04	-18/0	90/194	5	F1-11	U4	●		Special Order
2	50	KTEB-221PS-1-TP	120	Program	0.70	0.50	130	0.80	-18/0	75/167	3	F2-13	L7	●	●	Active
		KTEB-228-1-TP-PH-SL	120	Preheat	0.70	0.50	130	0.80	-18/0	75/167	3	F2-15	N1	●	●	Active
	67	KTEB-228HE-UV-PS-SL	120-277	Program	0.56-0.24	0.98	10	1.05	-18/0	90/194	5	F2-1	L11	●		Quick Ship
	64	KTEB-228HE-UV-TP-PS	120-277	Program	0.55-0.23	0.98	10	1.03	-18/0	90/194	5	F2-12	U4	●		Quick Ship
		KTEB-235HE-UV-TP-PS	120-277	Program	0.55-0.23	0.98	10	1.03	-18/0	90/194	5	F2-12	U4	●		Special Order
F35T5																
1	34	KTEB-135HE-1-TP	120	Rapid	0.48	0.50	130	0.88	-18/0	75/167	3	F1-6	N1	●	●	Quick Ship
	41	KTEB-235HE-UV-TP-PS	120-277	Program	0.34-0.15	0.98	10	1.00	-18/0	90/194	5	F1-11	U4	●		Special Order
2	80	KTEB-235HE-UV-TP-PS	120-277	Program	0.67-0.28	0.98	10	1.00	-18/0	90/194	5	F2-12	U4	●		Special Order

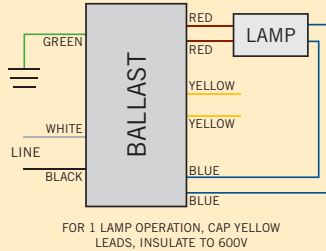
Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

WIRING DIAGRAMS

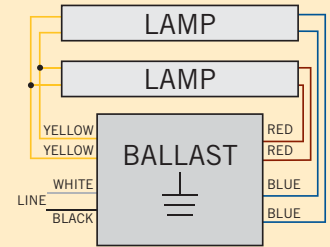
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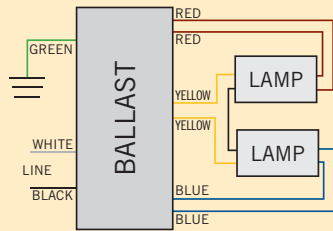
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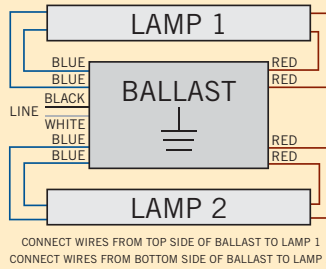
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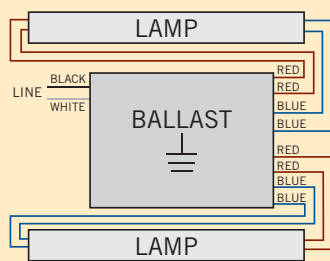
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F2-13

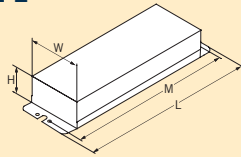


F2-15



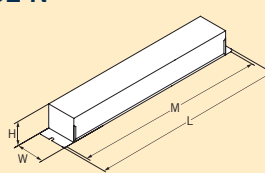
CASE STYLES

CASE L



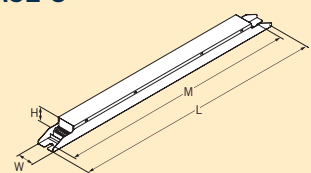
CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
L7	6.00"	6.46"	1.37"	1.00"
L11	8.96"	9.45"	1.35"	1.06"

CASE N



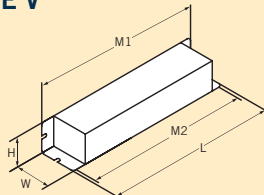
CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
N1	8.75"	9.00"	0.95"	0.95"

CASE U



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
U4	16.34"	16.70"	1.18"	1.00"

CASE V



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
V1	5.60"	5.90"	0.76"	0.76"

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ELECTRONIC BALLASTS

T5HO

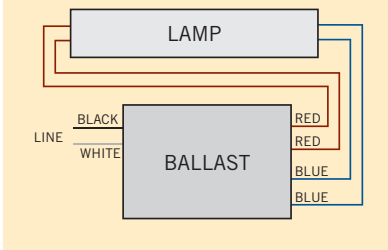
ELECTRONIC BALLASTS
T5HO

LAMP TYPE	NO. OF LAMPS	INPUT POWER (W)	CATALOG NUMBER	INPUT VOLTS	STARTING METHOD	LINE CURRENT	MIN. POWER FACTOR	MAX THD	BALLAST FACTOR	MIN. START TEMP (°C/°F)	MAX CASE TEMP. (°C/°F)	WARRANTY	WIRING DIAGRAM	CASE STYLE	APPROVALS	STATUS
															 	
F24T5HO																
1	28	KTEB-139HO-1-TP	120	Rapid	0.41	0.50	130	1.00	-18/0	75/167	3	F1-6	N1	●	●	Active
	27	KTEB-224HO-UV-PS-SL	120-277	Program	0.23-0.10	0.98	10	1.02	-18/0	90/194	5	F2-1	L11	●		Quick Ship
	28	KTEB-224HO-UV-TP-PS	120-277	Program	0.23-0.11	0.95	12	0.96	-18/0	90/194	5	F1-11	U4	●		Special Order
	30	KTEB-239HO-UV-PS-SL	120-277	Program	0.25-0.12	0.95	15	1.10	-18/0	90/194	5	F2-1	L11	●		Quick Ship
	29	KTEB-239HO-UV-TP-PS	120-277	Program	0.24-0.12	0.92	12	1.10	-18/0	90/194	5	F1-11	U4	●		Special Order
2	52	KTEB-224HO-UV-PS-SL	120-277	Program	0.44-0.19	0.98	10	1.00	-18/0	90/194	5	F2-1	L11	●		Quick Ship
	50	KTEB-224HO-UV-TP-PS	120-277	Program	0.42-0.19	0.98	12	0.90	-18/0	90/194	5	F2-12	U4	●		Special Order
	59	KTEB-239HO-UV-PS-SL	120-277	Program	0.22-0.50	0.98	10	1.08	-18/0	90/194	5	F2-1	L11	●		Quick Ship
	52	KTEB-239HO-UV-TP-PS	120-277	Program	0.44-0.20	0.97	12	1.00	-18/0	90/194	5	F2-12	U4	●		Special Order
F39T5HO																
1	35	KTEB-139HO-1-TP	120	Rapid	0.49	0.50	130	0.90	-18/0	75/167	3	F1-6	N1	●	●	Active
	39	KTEB-224HO-UV-PS-SL	120-277	Program	0.33-0.15	0.97	10	0.90	-18/0	90/194	5	F2-1	L11	●		Quick Ship
		KTEB-224HO-UV-TP-PS	120-277	Program	0.33-0.15	0.97	12	0.90	-18/0	90/194	5	F1-11	U4	●		Special Order
	47	KTEB-239HO-UV-PS-SL	120-277	Program	0.39-0.18	0.97	12	1.06	-18/0	90/194	5	F2-1	L11	●		Quick Ship
	48	KTEB-239HO-UV-TP-PS	120-277	Program	0.40-0.18	0.96	12	1.15	-18/0	90/194	5	F1-11	U4	●		Special Order
2	90	KTEB-239HO-UV-PS-SL	120-277	Program	0.78-0.34	0.99	10	1.00	-18/0	90/194	5	F2-1	L11	●		Quick Ship
	94	KTEB-239HO-UV-TP-PS	120-277	Program	0.78-0.34	0.98	10	1.12	-18/0	90/194	5	F2-12	U4	●		Special Order
F54T5HO																
1	51	KTEB-154HO-1-TP	120	Rapid	0.74	0.50	130	0.95	-18/0	75/167	3	F1-6	N1	●	●	Active
	61	KTEB-254HO-UV-PS-SL	120-277	Program	0.51-0.23	0.98	10	1.02	-18/0	90/194	5	F1-11	L6	●		Quick Ship
		KTEB-254HO-UV-TP-PS	120-277	Program	0.51-0.23	0.98	10	1.02	-18/0	90/194	5	F1-11	U4	●		Quick Ship
	60	KTEB-454HO-UV-PS-SL	120-277	Program	0.50-0.23	0.94	10	1.01	-18/0	90/194	5	F3-7	L12	●		Quick Ship
	63	KTEB-454HO-UV-TP-PS	120-277	Program	0.52-0.25	0.91	20	1.02	-18/0	90/194	5	F3-7	L10	●		Quick Ship
2	117	KTEB-254HO-UV-PS-SL	120-277	Program	0.98-0.42	0.98	10	1.00	-18/0	90/194	5	F2-12	L6	●		Quick Ship
	117	KTEB-254HO-UV-TP-PS	120-277	Program	0.98-0.42	0.98	10	1.00	-18/0	90/194	5	F2-12	U4	●		Quick Ship
	112	KTEB-454HO-UV-PS-SL	120-277	Program	0.96-0.42	0.98	10	0.98	-18/0	90/194	5	F3-6, F4-5	L12	●		Quick Ship
	116	KTEB-454HO-UV-TP-PS	120-277	Program	0.98-0.44	0.97	15	1.00	-18/0	90/194	5	F3-6, F4-5	L10	●		Quick Ship
3	171	KTEB-454HO-UV-PS-SL	120-277	Program	1.47-0.63	0.98	10	0.99	-18/0	90/194	5	F3-6, F3-7	L12	●		Quick Ship
	170	KTEB-454HO-UV-TP-PS	120-277	Program	1.42-0.62	0.98	15	1.02	-18/0	90/194	5	F3-6, F3-7	L10	●		Quick Ship
4	229	KTEB-454HO-UV-PS-SL	120-277	Program	1.94-0.83	0.98	10	0.98	-18/0	90/194	5	F4-5	L12	●		Quick Ship
	220	KTEB-454HO-UV-TP-PS	120-277	Program	1.85-0.79	0.99	10	1.00	-18/0	90/194	5	F4-5	L10	●		Quick Ship

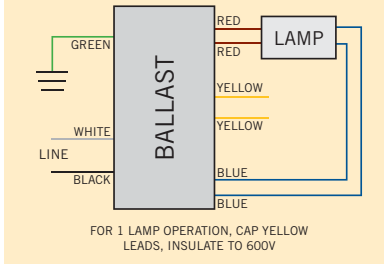
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WIRING DIAGRAMS

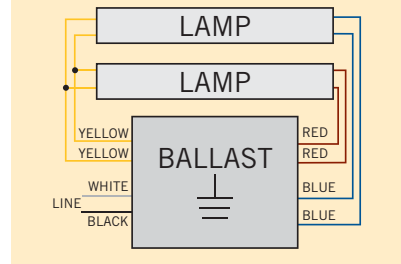
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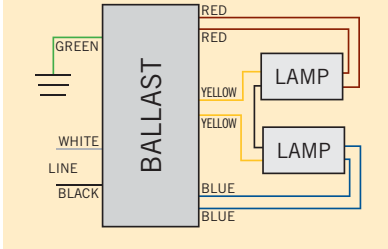
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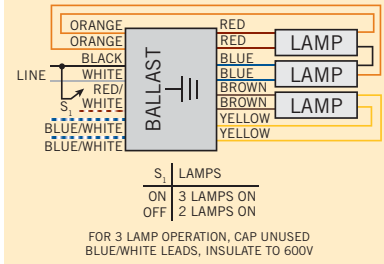
F2-1



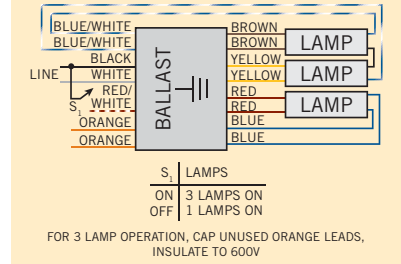
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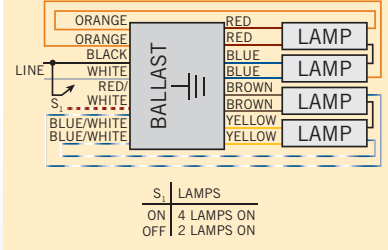
F3-6



F3-7

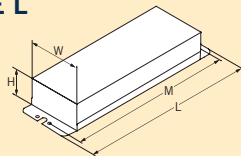


F4-5



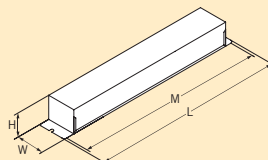
CASE STYLES

CASE L



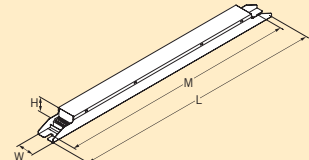
CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
L6	8.90"	9.50"	1.38"	1.18"
L10	16.40"	16.70"	1.70"	1.18"
L11	8.96"	9.45"	1.35"	1.06"
L12	9.00"	9.45"	2.28"	1.03"

CASE N



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
N1	8.75"	9.00"	0.95"	0.95"

CASE U



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
U4	16.34"	16.70"	1.18"	1.00"

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ELECTRONIC BALLASTS



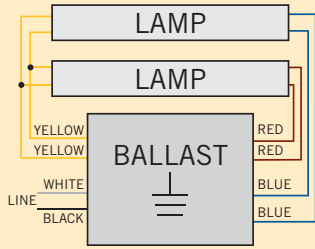
PLL

LAMP TYPE														APPROVALS	
NO. OF LAMPS	INPUT POWER (W)	CATALOG NUMBER	INPUT VOLTS	STARTING METHOD	LINE CURRENT	MIN. POWER FACTOR	MAX THD	BALLAST FACTOR	MIN. START TEMP (°C/°F)	MAX CASE TEMP. (°C/°F)	WARRANTY	WIRING DIAGRAM	CASE STYLE	 LISTED	STATUS
FT24W/2G11															
1	28	KTEB-139H0-1-TP	120	Rapid	0.43	0.50	150	1.00	-18/0	75/167	3	P1-1	N1	●	Active
	27	KTEB-224H0-UV-PS-SL	120-277	Program	0.23-0.10	0.98	10	1.02	-18/0	90/194	5	F2-1	L11	●	Quick Ship
	26	KTEB-224H0-UV-TP-PS	120-277	Program	0.10-0.22	0.95	12	0.95	-18/0	90/194	5	P1-2	U4	●	Special Order
	30	KTEB-239H0-UV-PS-SL	120-277	Program	0.25-0.12	0.95	15	1.09	-18/0	90/194	5	F2-1	L11	●	Quick Ship
2	52	KTEB-224H0-UV-PS-SL	120-277	Program	0.44-0.19	0.98	10	1.00	-18/0	90/194	5	F2-1	L11	●	Quick Ship
	50	KTEB-224H0-UV-TP-PS	120-277	Program	0.18-0.42	0.98	12	0.90	-18/0	90/194	5	P2-2	U4	●	Special Order
	46	KTEB-226-UV-TP-PSD	120-277	Program	0.38-0.17	0.98	10	0.87	-18/0	90/194	5	P2-2	W1	●	Quick Ship
	55	KTEB-239H0-UV-PS-SL	120-277	Program	0.45-0.20	0.98	10	0.99	-18/0	90/194	5	F2-1	L11	●	Quick Ship
	54	KTEB-242T-UV-TP-PSD	120-277	Program	0.45-0.20	0.98	10	1.00	-18/0	90/194	5	P2-2	W2	●	Quick Ship
FT36W/2G11															
1	33	KTEB-139H0-1-TP	120	Rapid	0.48	0.50	150	0.90	-18/0	75/167	3	P1-1	N1	●	Active
	34	KTEB-224H0-UV-PS-SL	120-277	Program	0.29-0.13	0.98	10	0.90	-18/0	90/194	5	F2-1	L11	●	Quick Ship
	40	KTEB-224H0-UV-TP-PS	120-277	Program	0.33-0.15	0.95	12	1.00	-18/0	90/194	5	P1-2	U4	●	Special Order
	38	KTEB-239H0-UV-PS-SL	120-277	Program	0.32-0.14	0.99	10	0.92	-18/0	90/194	5	F2-1	L11	●	Quick Ship
	37	KTEB-242T-UV-TP-PSD	120-277	Program	0.31-0.14	0.95	12	0.88	-18/0	90/194	5	P1-2	W2	●	Quick Ship
	42	KTEB-454H0-UV-TP-PS	120-277	Program	0.35-0.18	0.85	20	1.10	-18/0	90/194	5	F3-6	L10	●	Quick Ship
2	72	KTEB-239H0-UV-PS-SL	120-277	Program	0.60-0.26	0.98	10	0.87	-18/0	90/194	5	F2-1	L11	●	Quick Ship
	74	KTEB-239H0-UV-TP-PS	120-277	Program	0.62-0.27	0.98	10	0.95	-18/0	90/194	5	P2-2	U4	●	Special Order
	66	KTEB-242T-UV-TP-PSD	120-277	Program	0.55-0.24	0.98	10	0.80	-18/0	90/194	5	P2-2	W2	●	Quick Ship
	80	KTEB-454H0-UV-TP-PS	120-277	Program	0.66-0.31	0.94	15	1.10	-18/0	90/194	5	F3-6 ,F4-5	L10	●	Quick Ship
3	122	KTEB-454H0-UV-TP-PS	120-277	Program	1.03-0.46	0.97	15	1.10	-18/0	90/194	5	F3-6	L10	●	Quick Ship
4	160	KTEB-454H0-UV-TP-PS	120-277	Program	1.35-0.59	0.99	10	1.10	-18/0	90/194	5	F4-5	L10	●	Quick Ship

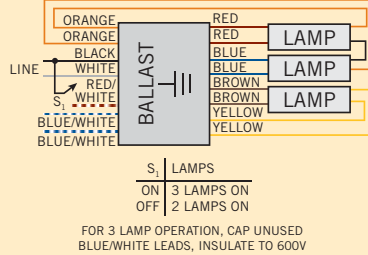
Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

WIRING DIAGRAMS

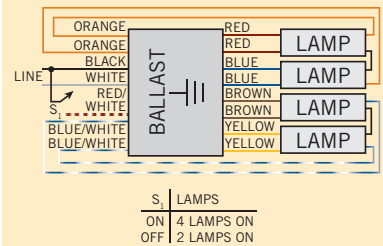
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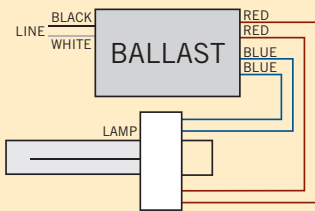
F3-6



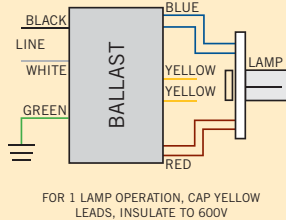
F4-5



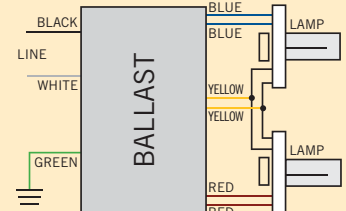
P1-1



P1-2

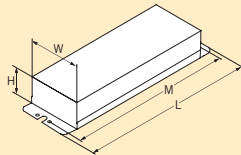


P2-2



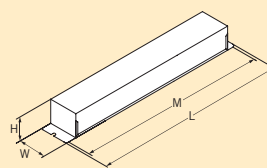
CASE STYLES

CASE L



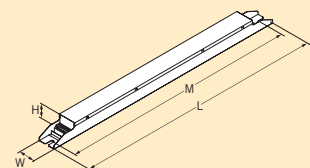
CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
L10	16.40"	16.70"	1.70"	1.18"
L11	8.96"	9.45"	1.35"	1.06"

CASE N



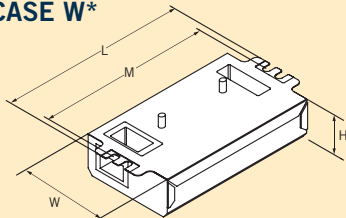
CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
N1	8.75"	9.00"	0.95"	0.95"

CASE U



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
U4	16.34"	16.70"	1.18"	1.00"

CASE W*



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
W1	4.63"	5.00"	2.40"	1.00"
W2	4.63"	5.00"	3.00"	1.38"

* Available with and without studs.

Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

ELECTRONIC BALLASTS



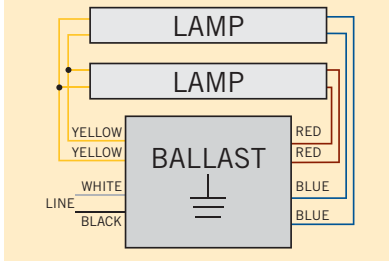
PLL

LAMP TYPE															APPROVALS		
NO. OF LAMPS	INPUT POWER (W)	CATALOG NUMBER	INPUT VOLTS	STARTING METHOD	LINE CURRENT	MIN. POWER FACTOR	MAX THD	BALLAST FACTOR	MIN. START TEMP (°C/°F)	MAX CASE TEMP. (°C/°F)	WARRANTY	WIRING DIAGRAM	CASE STYLE				STATUS
FT36W/39W/2G11																	
1	41	KTEB-454HO-UV-PS-SL	120-277	Program	0.33-0.17	0.85	15	0.88	-18/0	90/194	5	F3-7	L12				Quick Ship
2	75	KTEB-454HO-UV-PS-SL	120-277	Program	0.63-0.29	0.94	10	0.87	-18/0	90/194	5	F3-6, F4-5	L12				Quick Ship
3	114	KTEB-454HO-UV-PS-SL	120-277	Program	0.98-0.43	0.96	10	0.88	-18/0	90/194	5	F3-6, F3-7	L12				Quick Ship
4	154	KTEB-454HO-UV-PS-SL	120-277	Program	1.33-0.57	0.97	10	0.87	-18/0	90/194	5	F4-5	L12				Quick Ship
FT40W/2G11RS																	
1	38	KTEB-139HO-1-TP	120	Rapid	0.55	0.50	150	0.90	-18/0	75/167	3	P1-1	N1				Active
	39	KTEB-142T-1-TP-SC	120	Rapid	0.56	0.50	120	0.85	-18/0	90/194	3	P1-1	L8				Special Order
	47	KTEB-224HO-UV-PS-SL	120-277	Program	0.40-0.17	0.98	10	1.00	-18/0	90/194	5	F2-1	L11				Quick Ship
	50	KTEB-239HO-UV-PS-SL	120-277	Program	0.42-0.19	0.97	12	1.09	-18/0	90/194	5	F2-1	L11				Quick Ship
	45	KTEB-242T-UV-TP-PSD	120-277	Program	0.37-0.17	0.96	10	1.00	-18/0	90/194	5	P1-2	W2				Quick Ship
2	82	KTEB-242T-UV-TP-PSD	120-277	Program	0.69-0.30	0.98	10	0.95	-18/0	90/194	5	P2-2	W2				Quick Ship

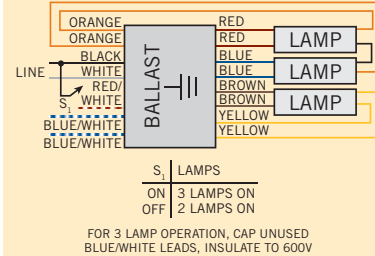
Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

WIRING DIAGRAMS

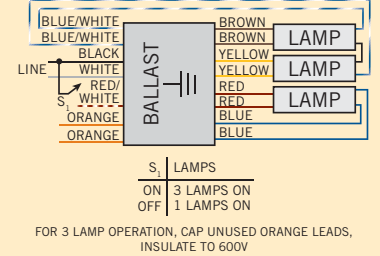
F2-1



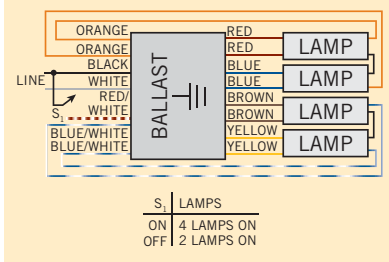
F3-6



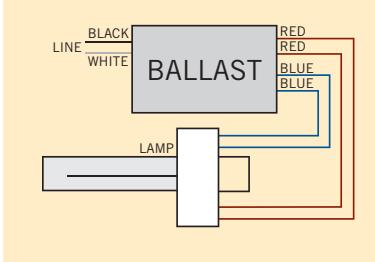
F3-7



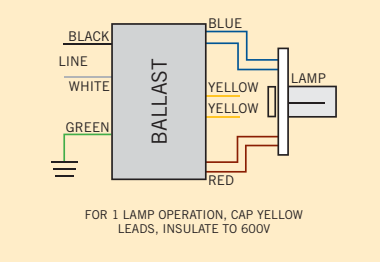
F4-5



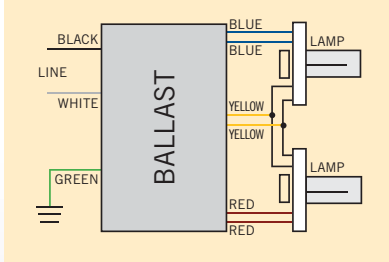
P1-1



P1-2

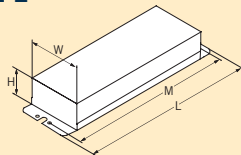


P2-2



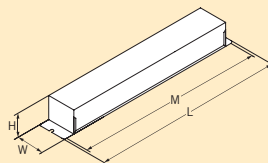
CASE STYLES

CASE L



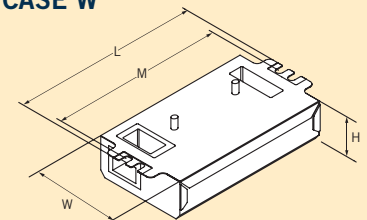
CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
L8	3.60"	4.00"	1.87"	1.18"
L11	8.96"	9.45"	1.35"	1.06"
L12	9.00"	9.45"	2.28"	1.03"

CASE N



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
N1	8.75"	9.00"	0.95"	0.95"

CASE W*



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
W2	4.63"	5.00"	3.00"	1.38"

* Available with and without studs.

Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

ELECTRONIC BALLASTS

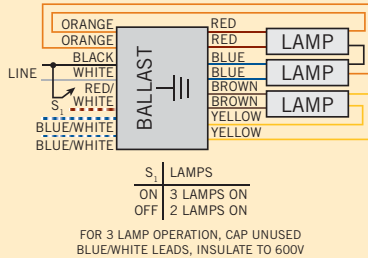
PLL

LAMP TYPE														APPROVALS	
NO. OF LAMPS	INPUT POWER (W)	CATALOG NUMBER	INPUT VOLTS	STARTING METHOD	LINE CURRENT	MIN. POWER FACTOR	MAX THD	BALLAST FACTOR	MIN. START TEMP (°C/°F)	MAX CASE TEMP. (°C/°F)	WARRANTY	WIRING DIAGRAM	CASE STYLE	 LISTED	STATUS
FT50W/2G11RS															
1	48	KTEB-154H0-1-TP	120	Rapid	0.73	0.50	150	0.90	-18/0	75/167	3	P1-1	N1	●	Active
	57	KTEB-254H0-UV-PS-SL	120-277	Program	0.49-0.22	0.92	12	1.00	-18/0	90/194	5	P1-2	L6	●	Quick Ship
		KTEB-254H0-UV-TP-PS	120-277	Program	0.49-0.22	0.92	12	1.00	-18/0	90/194	5	P1-2	U4	●	Quick Ship
	53	KTEB-454H0-UV-TP-PS	120-277	Program	0.90-0.38	0.90	20	0.87	-18/0	90/194	5	F3-6	L10	●	Active
2	115	KTEB-254H0-UV-PS-SL	120-277	Program	0.98-0.43	0.98	10	1.00	-18/0	90/194	5	P2-2	L6	●	Quick Ship
		KTEB-254H0-UV-TP-PS	120-277	Program	0.98-0.43	0.98	10	1.00	-18/0	90/194	5	P2-2	U4	●	Quick Ship
	102	KTEB-454H0-UV-TP-PS	120-277	Program	0.45-0.25	0.96	15	0.85	-18/0	90/194	5	F3-6 ,F4-5	L10	●	Quick Ship
3	153	KTEB-454H0-UV-TP-PS	120-277	Program	1.28-0.56	0.98	15	0.87	-18/0	90/194	5	F3-6	L10	●	Quick Ship
4	202	KTEB-454H0-UV-TP-PS	120-277	Program	1.70-0.77	0.99	10	0.85	-18/0	90/194	5	F4-5	L10	●	Quick Ship
FT55W/2G11RS															
1	48	KTEB-154H0-1-TP	120	Rapid	0.73	0.50	150	0.85	-18/0	75/167	3	P1-1	N1	●	Active
	55	KTEB-254H0-UV-PS-SL	120-277	Program	0.46-0.21	0.92	12	0.86	-18/0	90/194	5	P1-2	L6	●	Quick Ship
		KTEB-254H0-UV-TP-PS	120-277	Program	0.46-0.21	0.92	12	0.86	-18/0	90/194	5	P1-2	U4	●	Quick Ship
	56	KTEB-454H0-UV-PS-SL	120-277	Program	0.46-0.22	0.92	15	0.93	-18/0	90/194	5	F3-7	L12	●	Quick Ship
2	106	KTEB-254H0-UV-PS-SL	120-277	Program	0.98-0.38	0.99	10	0.85	-18/0	90/194	5	P2-2	L6	●	Quick Ship
		KTEB-254H0-UV-TP-PS	120-277	Program	0.98-0.38	0.99	10	0.85	-18/0	90/194	5	P2-2	U4	●	Quick Ship
	101	KTEB-454H0-UV-PS-SL	120-277	Program	0.84-0.38	0.97	10	0.92	-18/0	90/194	5	F3-6 ,F4-5	L12	●	Quick Ship
		KTEB-454H0-UV-TP-PS	120-277	Program	0.85-0.39	0.96	15	0.85	-18/0	90/194	5	F3-6 ,F4-5	L10	●	Quick Ship
3	155	KTEB-454H0-UV-PS-SL	120-277	Program	1.29-0.57	0.98	10	0.93	-18/0	90/194	5	F3-6 ,F3-7	L12	●	Quick Ship
	153	KTEB-454H0-UV-TP-PS	120-277	Program	1.28-0.56	0.98	15	0.87	-18/0	90/194	5	F3-6	L10	●	Quick Ship
4	209	KTEB-454H0-UV-PS-SL	120-277	Program	1.74-0.76	0.98	10	0.90	-18/0	90/194	5	F4-5	L12	●	Quick Ship
	202	KTEB-454H0-UV-TP-PS	120-277	Program	1.70-0.77	0.99	10	0.85	-18/0	90/194	5	F4-5	L10	●	Quick Ship

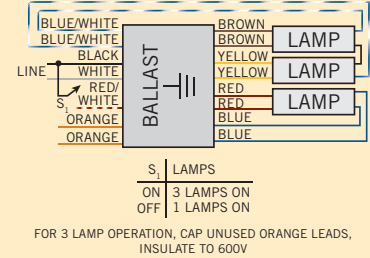
Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

WIRING DIAGRAMS

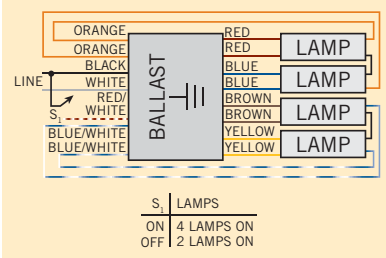
F3-6



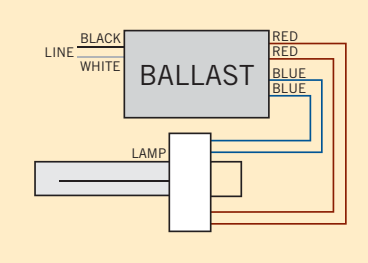
F3-7



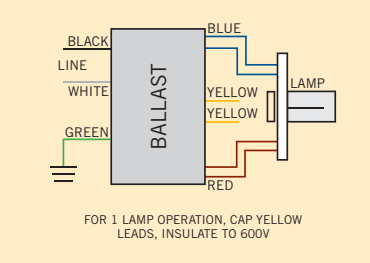
F4-5



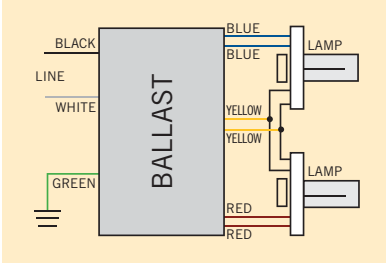
P1-1



P1-2

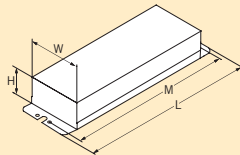


P2-2



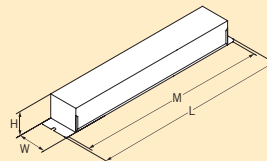
CASE STYLES

CASE L



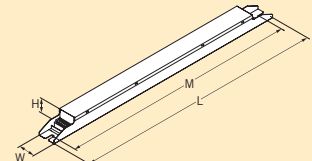
CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
L6	8.90"	9.50"	1.38"	1.18"
L10	16.40"	16.70"	1.70"	1.18"
L12	9.00"	9.45"	2.28"	1.03"

CASE N



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
N1	8.75"	9.00"	0.95"	0.95"

CASE U



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
U4	16.34"	16.70"	1.18"	1.00"

Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

ELECTRONIC BALLASTS



Circline

ELECTRONIC BALLASTS
Circline

LAMP TYPE												WARRANTY			APPROVALS		
NO. OF LAMPS	INPUT POWER (W)	CATALOG NUMBER	INPUT VOLTS	STARTING METHOD	LINE CURRENT	MIN. POWER FACTOR	MAX THD	BALLAST FACTOR	MIN. START TEMP (°C/°F)	MAX CASE TEMP. (°C/°F)			WIRING DIAGRAM	CASE STYLE			STATUS
FC6T9 (20W)																	
1	21	SS22WSTP*	120	Preheat	0.35	0.50	20	0.79	0/32	90/194	3	C1-1	C7				Quick Ship
FC8T9 (22W)																	
1	21	KTEB-1C22-1-TP-WS	120	Rapid	0.33	0.50	150	0.90	-18/0	75/167	3	C1-1	S1				Quick Ship
		KTEB-1C22-1-TP-WS-LC	120	Rapid	0.33	0.50	150	0.90	-18/0	75/167	3	C1-1	L1				Special Order
	19	SS22WSTP*	120	Preheat	0.29	0.50	15	0.79	0/32	90/194	3	C1-1	C7				Quick Ship
FC12T9 (32W)																	
1	29	KTEB-140-1-TP-EMI-WS	120	Rapid	0.42	0.57	150	0.92	-18/0	75/167	3	C1-1	L7				Quick Ship
	37	KTEB-1C3032-1-TP-WS	120	Rapid	0.55	0.50	150	1.00	-18/0	75/167	3	C1-1	L1				Active
		KTEB-1C3032-1-TP-WS-LC	120	Rapid	0.55	0.50	150	1.00	-18/0	75/167	3	C1-1	S1				Special Order
FC8T9 & FC12T9																	
2	48	KTEB-2C54PS-1-TP-WS	120	Program	0.68	0.50	130	0.85	-18/0	75/167	3	C2-1	L1				Special Order
	40	KTEB-2C72-1-TP-WS	120	Rapid	0.60	0.50	150	0.76	-18/0	75/167	3	C2-1	L1				Quick Ship
FC16T9 (40W)																	
1	43	KTEB-1382D-1-TP-WS	120	Rapid	0.63	0.50	130	0.95	-18/0	75/167	3	C1-1	S1				Special Order
	38	KTEB-140-1-TP-EMI-WS	120	Rapid	0.53	0.58	150	0.95	-18/0	75/167	3	C1-1	L7				Quick Ship
	42	KTEB-226-UV-TP-PIC-DW KTEB-226-UV-TP-PIC-DW-KIT	120-277	Rapid	0.36-0.16	0.97	10	1.00	-18/0	75/167	5	P1-2	W1				Quick Ship
FC12T9 & FC16T9																	
2	50	KTEB-2C72-1-TP-WS	120	Rapid	0.75	0.50	150	0.70	-18/0	167	3	C2-1	L1				Quick Ship
FC9T5 (22W)																	
1	22	KTEB-126-1-TP	120	Rapid	0.34	0.50	150	1.00	-18/0	75/167	3	C1-1	S1				Quick Ship
		KTEB-126-1-TP-LC	120	Rapid	0.34	0.50	150	1.00	-18/0	75/167	3	C1-1	L2				Quick Ship
	27	KTEB-224HO-UV-PS-SL	120-277	Program	0.23-0.10	0.98	10	1.02	-18/0	90/194	5	F2-1	L11				Quick Ship
	33	KTEB-239HO-UV-PS-SL	120-277	Program	0.28-0.13	0.95	12	1.31	-18/0	90/194	5	F2-1	L11				Quick Ship
	31	KTEB-242T-UV-TP-PSD	120-277	Program	0.27-0.13	0.93	15	1.20	-18/0	90/194	5	P1-2	W2				Quick Ship
2	52	KTEB-224HO-UV-PS-SL	120-277	Program	0.44-0.19	0.98	10	1.00	-18/0	90/194	5	F2-1	L11				Quick Ship
	63	KTEB-239HO-UV-PS-SL	120-277	Program	0.53-0.23	0.98	10	1.25	-18/0	90/194	5	F2-1	L11				Quick Ship
	59	KTEB-242T-UV-TP-PSD	120-277	Program	0.49-0.22	0.97	10	1.10	-18/0	90/194	5	P2-2	W2				Quick Ship
FCL-30 (30W)																	
1	32	KTEB-1C3032-1-TP-WS	120	Rapid	0.50	0.50	150	0.95	-18/0	75/167	3	C1-1	L1				Active
		KTEB-1C3032-1-TP-WS-LC	120	Rapid	0.50	0.50	150	0.95	-18/0	75/167	3	C1-1	S1				Special Order
FC12T5 (40W)																	
1	41	KTEB-1382D-1-TP-WS	120	Rapid	0.62	0.50	150	0.95	-18/0	75/167	3	C1-1	S1				Special Order
	40	KTEB-224HO-UV-PS-SL	120-277	Program	0.34-0.15	0.98	10	0.84	-18/0	90/194	5	F2-1	L11				Quick Ship
	45	KTEB-242T-UV-TP-PSD	120-277	Program	0.37-0.17	0.96	10	1.00	-18/0	90/194	5	P1-2	W2				Quick Ship
2	82	KTEB-242T-UV-TP-PSD	120-277	Program	0.69-0.30	0.97	10	0.95	-18/0	90/194	5	P2-2	W2				Quick Ship
FC9T5 & FC12T5																	
2	68	KTEB-239HO-UV-PS-SL	120-277	Program	0.57-0.25	0.98	10	0.96	-18/0	90/194	5	F2-1	L11				Quick Ship
	67	KTEB-242T-UV-TP-PSD	120-277	Program	0.55-0.25	0.98	10	0.90	-18/0	90/194	5	P2-2	W2				Quick Ship

*Electromagnetic Ballast

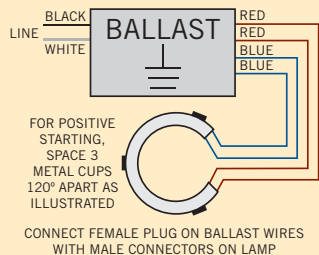
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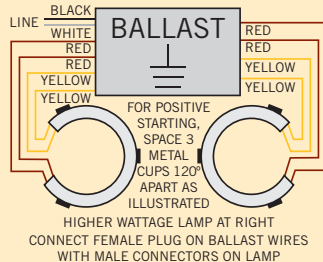


WIRING DIAGRAMS

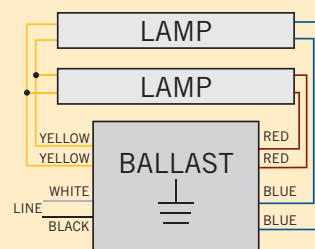
C1-1



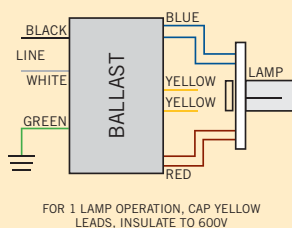
C2-1



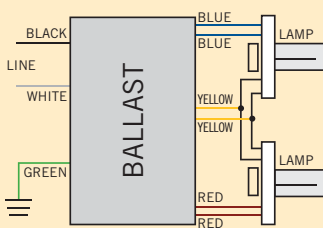
F2-1



P1-2

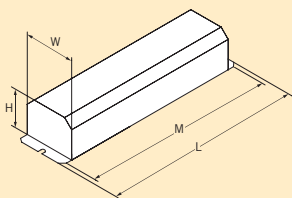


P2-2



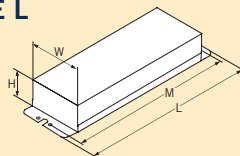
CASE STYLES

CASE C



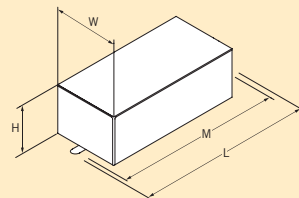
CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
C7	2.75"	3.10"	1.89"	1.43"

CASE L



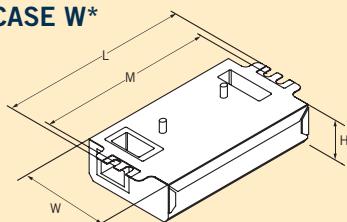
CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
L1	6.00"	6.46"	1.89"	1.00"
L2	6.00"	6.46"	1.89"	1.15"
L7	6.00"	6.46"	1.37"	1.00"
L11	8.96"	9.45"	1.35"	1.06"

CASE S



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
S1	3.12"	3.45"	1.21"	1.21"

CASE W*



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
W1	4.63"	5.00"	2.40"	1.00"
W2	4.63"	5.00"	3.00"	1.38"

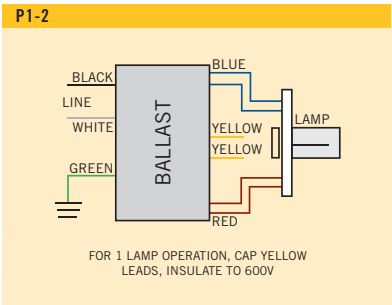
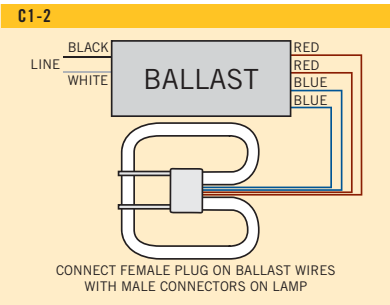
* Available with and without studs.

Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com



LAMP TYPE	NO. OF LAMPS	INPUT POWER (W)	CATALOG NUMBER	INPUT VOLTS	STARTING METHOD	LINE CURRENT	MIN. POWER FACTOR	MAX THD	BALLAST FACTOR	MIN. START TEMP (°C/°F)	MAX CASE TEMP. (°C/°F)	WARRANTY	WIRING DIAGRAM	CASE STYLE	APPROVALS			STATUS
																		
CFS21W/GR10q																		
1	18	KTEB-118-1-TP-SC	120	Rapid	0.28	0.50	150	0.80	-18/0	90/194	3	C1-2	L8			Special Order		
	19	KTEB-1C22-1-TP	120	Rapid	0.30	0.50	150	0.85	-18/0	75/167	3	C1-2	S1			Special Order		
		KTEB-1C22-1-TP-LC	120	Rapid	0.30	0.50	150	0.85	-18/0	75/167	3	C1-2	L1			Special Order		
	20	KTEB-218-UV-TP-PSD	120-277	Program	0.17-0.07	0.95	10	0.85	-18/0	90/194	5	P1-2	W1			Quick Ship		
CFS28W/GR10q																		
1	28	KTEB-126-1-TP	120	Rapid	0.40	0.50	130	0.90	-18/0	75/167	3	C1-2	S1			Quick Ship		
	30	KTEB-142T-1-TP-SC	120	Rapid	0.45	0.50	130	0.95	-18/0	90/194	3	C1-2	L8			Special Order		
		KTEB-226-UV-TP-PSD	120-277	Program	0.25-0.11	0.97	10	0.95	-18/0	90/194	5	P1-2	W1			Quick Ship		
	34	KTEB-242T-UV-TP-PSD	120-277	Program	0.29-0.14	0.93	15	1.00	-18/0	90/194	5	P1-2	W2			Quick Ship		
CFS38W/GR10q																		
1	40	KTEB-1382D-1-TP	120	Rapid	0.60	0.50	150	0.95	-18/0	75/167	3	C1-2	S1			Special Order		

WIRING DIAGRAMS



CASE STYLES

CASE L

CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
L1	6.00"	6.46"	1.89"	1.00"
L8	3.60"	4.00"	1.87"	1.18"

CASE S

CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
S1	3.12"	3.45"	1.21"	1.21"

CASE W*

CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
W1	4.63"	5.00"	2.40"	1.00"
W2	4.63"	5.00"	3.00"	1.38"

* Available with and without studs.

Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

COMPACT FLUORESCENT

CONTENTS

2-2 | Compact Fluorescent Ballasts



Keystone's compact fluorescent (CFL) ballasts are the ideal choice for commercial and residential CFL applications. Available with a variety of features and product configurations, such as multi-voltage input options and industry-leading high temperature ratings, Keystone is sure to have the perfect CFL ballast for any demanding fixture application.



Commercial Grade - Keystone Technologies makes compact fluorescent simple. All of Keystone's commercial grade electronic CFL ballasts feature bottom and side poke-in connectors, multi-voltage (120-277V) configuration, and multi-wattage capabilities.



Residential Grade - Designed specifically for residential applications, Keystone's wide selection of residential class electronic CFL ballasts meet Energy Star requirements for performance, reliability, and energy efficiency.



CFL Ballast Replacement Kits - Keystone makes CFL ballast replacement a cinch. Each commercial grade ballast is packed in a convenient, all-inclusive kit with the required stud mounting plate, lead wires, and a handy wire extraction tool.



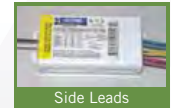
Bottom Leads



Bottom Leads w/ Studs



Center Leads



Side Leads



CATALOG NUMBER DESIGNATIONS

KTEB: Keystone Technologies Electronic Ballast
 DW: Dual Wire Connectors (Top and Side Mount)
 CC: Clamp Core and Coil
 VH: 90°C Temp Rating
 LC: Large Case

PIC: Active Power Factor Correction
 PSD: Program Start & Dual Wire Connectors
 RJ: Rear Junction Mount, No Studs
 RJS: Rear Junction Mount, with Studs
 TP: Thermally Protected

1: 120V Input
 UV: Universal Voltage Input (120-277V)
 KIT: CFL Replacement Kit
 SC: Short Case
 SCS: Short Case, with Studs

COMPACT FLUORESCENT



COMPACT FLUORESCENT
CFL

LAMP TYPE	NO. OF LAMPS	INPUT POWER (W)	CATALOG NUMBER	INPUT VOLTS	STARTING METHOD	LINE CURRENT	MIN. POWER FACTOR	MAX THD	BALLAST FACTOR	MIN. START TEMP (°C/°F)	MAX CASE TEMP. (°C/°F)	WARRANTY	WIRING DIAGRAM	CASE STYLE	APPROVALS	STATUS
CFT7W/2G7																
	1	7.5	KTEB-108-1-TP-FC	120	Rapid	0.12	0.50	150	1.05	-18/0	75/167	3	P1-1	V1	●	Active
CFT7W/G23																
	1	9	CC579TP*	120	Preheat	0.15	0.50	15	0.87	0/32	90/194	3	P1-3	B1	●	Quick Ship
CFT9W/2G7																
	1	8.5	KTEB-108-1-TP-FC	120	Rapid	0.13	0.50	150	1.00	-18/0	75/167	3	P1-1	V1	●	Active
CFT9W/G23																
	1	9	CC579TP*	120	Preheat	0.15	0.50	15	0.75	0/32	90/194	3	P1-3	B1	●	Quick Ship
CFQ13W/G24q																
1	14		KTEB-113-1-TP	120	Rapid	0.22	0.50	150	0.90	-18/0	75/167	3	P1-1	C6	●	Special Order
			KTEB-113-1-TP-PN	120	Rapid	0.22	0.50	150	0.90	-18/0	75/167	3	P1-1	S1	●	Special Order
			KTEB-113-1-TP-SC	120	Rapid	0.22	0.50	150	0.90	-18/0	90/194	3	P1-1	L8	●	Special Order
			KTEB-113-1-TP-SC-RJ	120	Rapid	0.22	0.50	150	0.90	-18/0	90/194	3	P1-1	L8	●	Special Order
			KTEB-113-1-TP-SC-RJS	120	Rapid	0.22	0.50	150	0.90	-18/0	90/194	3	P1-1	L8	●	Special Order
			KTEB-113-1-TP-SCS	120	Rapid	0.22	0.50	150	0.90	-18/0	90/194	3	P1-1	L8	●	Special Order
			KTEB-114-1-TP-FC	120	Rapid	0.22	0.50	150	0.90	-18/0	75/167	3	P1-1	V1	●	Quick Ship
2	18		KTEB-213-UV-TP-PIC-DW KTEB-213-UV-TP-PIC-DW-KIT	120-277	Rapid	0.15-0.07	0.96	10	1.10	-18/0	75/167	5	P1-2	W1	●	Quick Ship
	17		KTEB-213-UV-TP-PSD	120-277	Program	0.14-0.07	0.95	12	1.05	-18/0	90/194	5	P1-2	W1	●	Active
	28		KTEB-213-1-TP	120	Rapid	0.43	0.50	150	0.95	-18/0	75/167	3	P2-1	C6	●	Special Order
			KTEB-213-1-TP-DW	120	Rapid	0.43	0.50	150	0.95	-18/0	75/167	3	P2-2	W1	●	Special Order
			KTEB-213-1-TP-SC	120	Rapid	0.43	0.50	150	0.95	-18/0	75/167	3	P2-1	L8	●	Special Order
			KTEB-213-1-TP-SC-RJ	120	Rapid	0.43	0.50	150	0.95	-18/0	90/194	3	P2-1	L8	●	Special Order
			KTEB-213-1-TP-SC-RJS	120	Rapid	0.43	0.50	150	0.95	-18/0	90/194	3	P2-1	L8	●	Special Order
			KTEB-213-1-TP-SCS	120	Rapid	0.43	0.50	150	0.95	-18/0	90/194	3	P2-1	L8	●	Special Order
	32		KTEB-213-UV-TP-PIC-DW KTEB-213-UV-TP-PIC-DW-KIT	120-277	Rapid	0.27-0.12	0.99	10	1.05	-18/0	75/167	5	P2-2	W1	●	Quick Ship
	30		KTEB-213-UV-TP-PSD	120-277	Program	0.26-0.12	0.98	10	1.00	-18/0	90/194	5	P2-2	W1	●	Active
CFTR13W/GX24q																
1	18		KTEB-213-UV-TP-PIC-DW KTEB-213-UV-TP-PIC-DW-KIT	120-277	Rapid	0.15-0.07	0.96	10	1.10	-18/0	75/167	5	P1-2	W1	●	Quick Ship
	17		KTEB-213-UV-TP-PSD	120-277	Program	0.14-0.07	0.95	12	1.05	-18/0	90/194	5	P1-2	W1	●	Active
2	28		KTEB-213-1-TP-DW	120	Rapid	0.43	0.50	150	0.95	-18/0	75/167	3	P2-2	W1	●	Special Order
			KTEB-213-1-TP-SC	120	Rapid	0.43	0.50	150	0.95	-18/0	75/167	3	P2-1	L8	●	Special Order
			KTEB-213-1-TP-SC-RJ	120	Rapid	0.43	0.50	150	0.95	-18/0	90/194	3	P2-1	L8	●	Special Order
			KTEB-213-1-TP-SC-RJS	120	Rapid	0.43	0.50	150	0.95	-18/0	90/194	3	P2-1	L8	●	Special Order
			KTEB-213-1-TP-SCS	120	Rapid	0.43	0.50	150	0.95	-18/0	90/194	3	P2-1	L8	●	Special Order
	32		KTEB-213-UV-TP-PIC-DW KTEB-213-UV-TP-PIC-DW-KIT	120-277	Rapid	0.27-0.12	0.99	10	1.05	-18/0	75/167	5	P2-2	W1	●	Quick Ship
	30		KTEB-213-UV-TP-PSD	120-277	Program	0.26-0.12	0.98	10	1.00	-18/0	90/194	5	P2-2	W1	●	Active
CFQ13W/GX23 OR CFT13W/GX23																
1	16		CC1322TP*	120	Preheat	0.30	0.45	15	0.93	0/32	90/194	3	P1-3	B2	●	Quick Ship
	15		113SHPTP*	120	Preheat	0.13	0.90	10	0.88	0/32	90/194	3	P1-4	C7	●	Quick Ship

*Electromagnetic Ballast

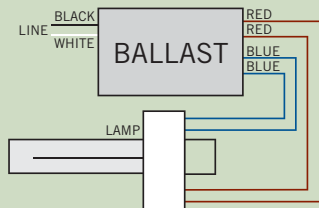
Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com



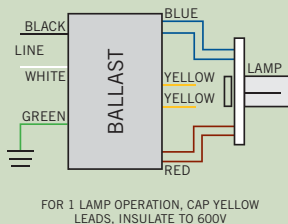
COMPACT FLUORESCENT

WIRING DIAGRAMS

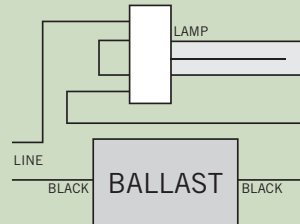
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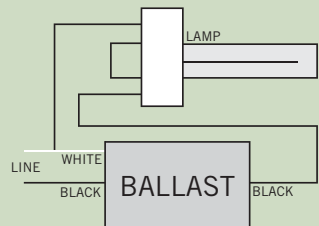
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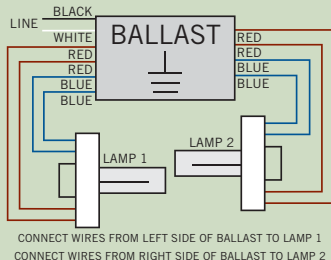
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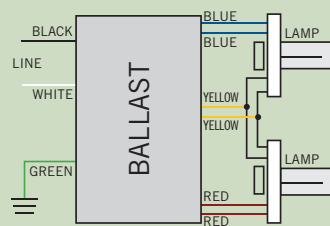
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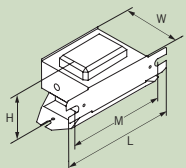


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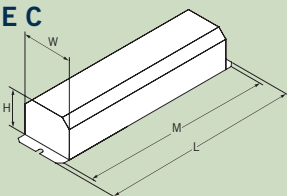
CASE STYLES

CASE B



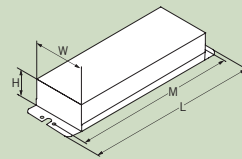
CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
B1	2.50"	2.75"	1.50"	1.20"
B2	2.75"	3.06"	1.25"	1.72"

CASE C



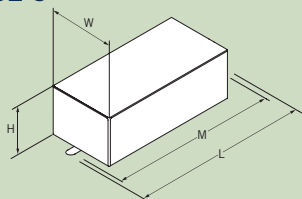
CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
C6	6.00"	6.46"	1.89"	0.98"
C7	2.75"	3.10"	1.89"	1.43"

CASE L



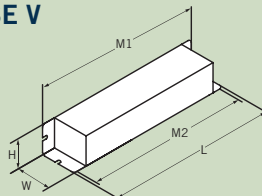
CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
L8	3.60"	4.00"	1.87"	1.18"

CASE S



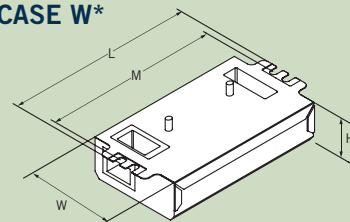
CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
S1	3.12"	3.45"	1.21"	1.21"

CASE V



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
V1	5.60"	5.90"	0.76"	0.76"

CASE W*



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
W1	4.63"	5.00"	2.40"	1.00"

* Available with and without studs.

Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

COMPACT FLUORESCENT



COMPACT FLUORESCENT
CFL

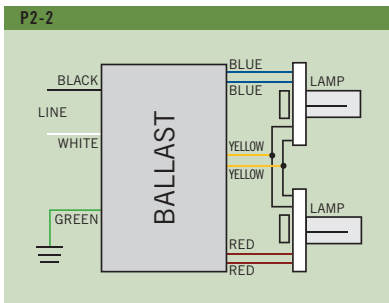
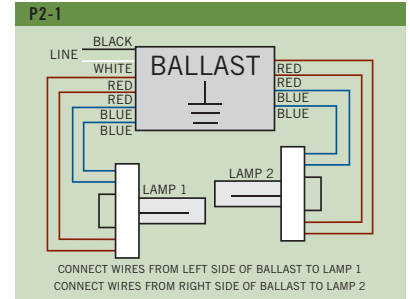
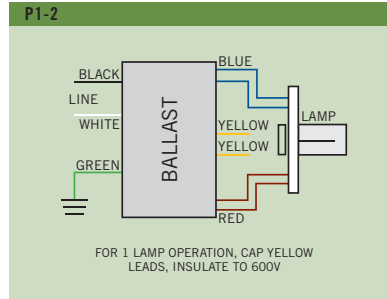
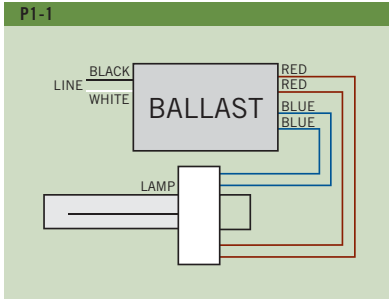
LAMP TYPE															APPROVALS		
NO. OF LAMPS	INPUT POWER (W)	CATALOG NUMBER	INPUT VOLTS	STARTING METHOD	LINE CURRENT	MIN. POWER FACTOR	MAX THD	BALLAST FACTOR	MIN. START TEMP (°C/°F)	MAX CASE TEMP. (°C/°F)	WARRANTY	WIRING DIAGRAM	CASE STYLE			STATUS	
CFQ18W/G24q																	
1	18	KTEB-118-1-TP-SC	120	Rapid	0.28	0.50	150	1.00	-18/0	90/194	3	P1-1	L8	●	●	Special Order	
		KTEB-118-1-TP-SC-RJ	120	Rapid	0.28	0.50	150	1.00	-18/0	90/194	3	P1-1	L8	●	●	Special Order	
		KTEB-118-1-TP-SC-RJS	120	Rapid	0.28	0.50	150	1.00	-18/0	90/194	3	P1-1	L8	●	●	Special Order	
		KTEB-118-1-TP-SCS	120	Rapid	0.28	0.50	150	1.00	-18/0	90/194	3	P1-1	L8	●	●	Special Order	
	20	KTEB-1C22-1-TP	120	Rapid	0.33	0.50	150	1.00	-18/0	75/167	3	P1-1	S1	●	●	Special Order	
	23	KTEB-213-UV-TP-PIC-DW KTEB-213-UV-TP-PIC-DW-KIT	120-277	Rapid	0.20-0.09	0.98	12	1.20	-18/0	75/167	5	P1-2	W1	●		Quick Ship	
	24	KTEB-218-UV-TP-PIC-DW KTEB-218-UV-TP-PIC-DW-KIT	120-277	Rapid	0.21-0.10	0.95	12	1.20	-18/0	75/167	5	P1-2	W1	●		Quick Ship	
	20	KTEB-218-UV-TP-PSD	120-277	Program	0.17-0.08	0.95	12	1.00	-18/0	90/194	5	P1-2	W1	●	●	Quick Ship	
2	36	KTEB-218-1-TP	120	Rapid	0.59	0.50	150	1.00	-18/0	75/167	3	P2-1	C6	●	●	Special Order	
		KTEB-218-1-TP-SC	120	Rapid	0.59	0.50	150	1.00	-18/0	90/194	3	P2-1	L8	●	●	Special Order	
		KTEB-218-1-TP-SC-RJ	120	Rapid	0.59	0.50	150	1.00	-18/0	90/194	3	P2-1	L8	●	●	Special Order	
		KTEB-218-1-TP-SC-RJS	120	Rapid	0.59	0.50	150	1.00	-18/0	90/194	3	P2-1	L8	●	●	Special Order	
		KTEB-218-1-TP-SCS	120	Rapid	0.59	0.50	150	1.00	-18/0	90/194	3	P2-1	L8	●	●	Special Order	
	40	KTEB-218-UV-TP-PIC-DW KTEB-218-UV-TP-PIC-DW-KIT	120-277	Rapid	0.36-0.16	0.99	10	1.10	-18/0	75/167	5	P2-2	W1	●	●	Quick Ship	
	36	KTEB-218-UV-TP-PSD	120-277	Program	0.30-0.13	0.98	10	0.95	-18/0	90/194	5	P2-2	W1	●	●	Quick Ship	
CFTR18W/GX24q																	
1	24	KTEB-218-UV-TP-PIC-DW KTEB-218-UV-TP-PIC-DW-KIT	120-277	Rapid	0.21-0.10	0.95	12	1.20	-18/0	75/167	5	P1-2	W1	●		Quick Ship	
	20	KTEB-218-UV-TP-PSD	120-277	Program	0.17-0.08	0.95	12	1.00	-18/0	90/194	5	P1-2	W1	●		Quick Ship	
2	36	KTEB-218-1-TP-DW	120	Rapid	0.59	0.50	150	1.00	-18/0	75/167	3	P2-2	W1	●	●	Special Order	
		KTEB-218-1-TP-SC	120	Rapid	0.59	0.50	150	1.00	-18/0	90/194	3	P2-1	L8	●	●	Special Order	
		KTEB-218-1-TP-SC-RJ	120	Rapid	0.59	0.50	150	1.00	-18/0	90/194	3	P2-1	L8	●	●	Special Order	
		KTEB-218-1-TP-SC-RJS	120	Rapid	0.59	0.50	150	1.00	-18/0	90/194	3	P2-1	L8	●	●	Special Order	
		KTEB-218-1-TP-SCS	120	Rapid	0.59	0.50	150	1.00	-18/0	90/194	3	P2-1	L8	●	●	Special Order	
	42	KTEB-218-UV-TP-PIC-DW KTEB-218-UV-TP-PIC-DW-KIT	120-277	Rapid	0.36-0.16	0.99	10	1.10	-18/0	75/167	5	P2-2	W1	●		Quick Ship	
	36	KTEB-218-UV-TP-PSD	120-277	Program	0.30-0.13	0.98	10	0.95	-18/0	90/194	5	P2-2	W1	●		Quick Ship	
CFQ26W/G24q																	
1	24	KTEB-126-1-TP	120	Rapid	0.40	0.50	150	0.90	-18/0	75/167	3	P1-1	S1	●	●	Quick Ship	
		KTEB-126-1-TP-LC	120	Rapid	0.40	0.50	150	0.90	-18/0	75/167	3	P1-1	L2	●		Quick Ship	
		KTEB-126-1-TP-SC	120	Rapid	0.40	0.50	150	0.90	-18/0	90/194	3	P1-1	L8	●	●	Special Order	
		KTEB-126-1-TP-SC-RJ	120	Rapid	0.40	0.50	150	0.90	-18/0	90/194	3	P1-1	L8	●	●	Special Order	
		KTEB-126-1-TP-SC-RJS	120	Rapid	0.40	0.50	150	0.90	-18/0	90/194	3	P1-1	L8	●	●	Quick Ship	
		KTEB-126-1-TP-SCS	120	Rapid	0.40	0.50	150	0.90	-18/0	90/194	3	P1-1	L8	●	●	Special Order	
	28	KTEB-142T-1-TP-SC	120	Rapid	0.43	0.50	150	1.05	-18/0	90/194	3	P1-1	L8	●	●	Special Order	
		KTEB-142T-1-TP-SC-RJ	120	Rapid	0.43	0.50	150	1.05	-18/0	90/194	3	P1-1	L8	●	●	Special Order	
		KTEB-142T-1-TP-SC-RJS	120	Rapid	0.43	0.50	150	1.05	-18/0	90/194	3	P1-1	L8	●		Special Order	
		KTEB-142T-1-TP-SCS	120	Rapid	0.43	0.50	150	1.05	-18/0	90/194	3	P1-1	L8	●		Special Order	
	30	KTEB-218-UV-TP-PIC-DW KTEB-218-UV-TP-PIC-DW-KIT	120-277	Rapid	0.26-0.11	0.98	10	1.05	-18/0	75/167	5	P1-2	W1	●		Special Order	
	33	KTEB-226-UV-TP-PIC-DW KTEB-226-UV-TP-PIC-DW-KIT	120-277	Rapid	0.27-0.12	0.96	12	1.20	-18/0	75/167	5	P1-2	W1	●	●	Quick Ship	
	27	KTEB-226-UV-TP-PSD	120-277	Program	0.23-0.10	0.95	10	0.95	-18/0	90/194	5	P1-2	W1	●	●	Quick Ship	
	32	KTEB-242T-UV-TP-PIC-DW KTEB-242T-UV-TP-PIC-DW-KIT	120-277	Rapid	0.27-0.13	0.95	10	1.00	-18/0	75/167	5	P1-2	W2	●		Quick Ship	
KTEB-242T-UV-TP-PSD		120-277	Program	0.27-0.13	0.95	10	1.00	-18/0	90/194	5	P1-2	W2	●	●	Quick Ship		

Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com



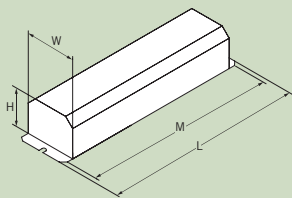
COMPACT FLUORESCENT

WIRING DIAGRAMS



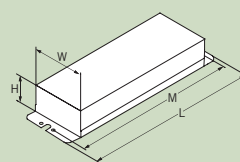
CASE STYLES

CASE C



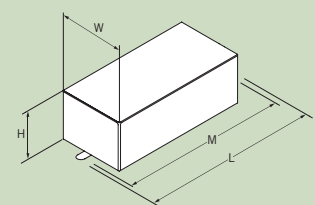
CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
C6	6.00"	6.46"	1.89"	0.98"

CASE L



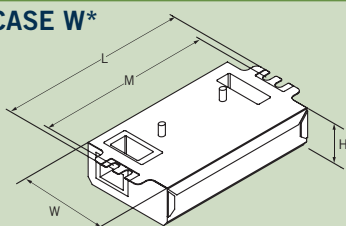
CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
L2	6.00"	6.46"	1.89"	1.15"
L8	3.60"	4.00"	1.87"	1.18"

CASE S



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
S1	3.12"	3.45"	1.21"	1.21"

CASE W*



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
W1	4.63"	5.00"	2.40"	1.00"
W2	4.63"	5.00"	3.00"	1.38"

* Available with and without studs.

Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

COMPACT FLUORESCENT



COMPACT FLUORESCENT
CFL

LAMP TYPE												WARRANTY			APPROVALS		
NO. OF LAMPS	INPUT POWER (W)	CATALOG NUMBER	INPUT VOLTS	STARTING METHOD	LINE CURRENT	MIN. POWER FACTOR	MAX THD	BALLAST FACTOR	MIN. START TEMP (°C/°F)	MAX CASE TEMP. (°C/°F)			WIRING DIAGRAM	CASE STYLE			STATUS
CFQ26W/G24q																	
2	50	KTEB-226-1-TP	120	Rapid	0.80	0.50	150	1.00	-18/0	75/167	3	P2-1	C6	●	●	Special Order	
	51	KTEB-226-1-TP-DW	120	Rapid	0.80	0.50	150	1.00	-18/0	75/167	3	P2-2	W1	●	●	Special Order	
	50	KTEB-226-1-TP-SC	120	Rapid	0.80	0.50	150	1.00	-18/0	90/194	3	P2-1	L8	●	●	Special Order	
		KTEB-226-1-TP-SC-RJ	120	Rapid	0.80	0.50	150	1.00	-18/0	90/194	3	P2-1	L8	●	●	Special Order	
		KTEB-226-1-TP-SC-RJS	120	Rapid	0.80	0.50	150	1.00	-18/0	90/194	3	P2-1	L8	●	●	Special Order	
		KTEB-226-1-TP-SCS	120	Rapid	0.80	0.50	150	1.00	-18/0	90/194	3	P2-1	L8	●	●	Special Order	
	58	KTEB-226-UV-TP-PIC-DW KTEB-226-UV-TP-PIC-DW-KIT	120-277	Rapid	0.49-0.21	0.99	10	1.00	-18/0	75/167	5	P2-2	W1	●	●	Quick Ship	
	51	KTEB-226-UV-TP-PSD	120-277	Program	0.42-0.18	0.98	10	0.95	-18/0	90/194	5	P2-2	W1	●	●	Quick Ship	
	43	KTEB-240-1-TP	120	Rapid	0.69	0.50	150	0.85	-18/0	75/167	3	P2-1	L1	●		Quick Ship	
	54	KTEB-242T-UV-TP-PIC-DW KTEB-242T-UV-TP-PIC-DW-KIT	120-277	Rapid	0.45-0.21	0.97	10	0.90	-18/0	75/167	5	P2-2	W2	●		Quick Ship	
KTEB-242T-UV-TP-PSD		120-277	Program	0.45-0.21	0.97	10	0.90	-18/0	90/194	5	P2-2	W2	●		Quick Ship		
CFTR26W/G24Xq																	
1	26	KTEB-142T-1-TP-SC	120	Rapid	0.40	0.50	150	1.00	-18/0	90/194	3	P1-1	L8	●	●	Special Order	
		KTEB-142T-1-TP-SC-RJ	120	Rapid	0.40	0.50	150	1.00	-18/0	90/194	3	P1-1	L8	●	●	Special Order	
		KTEB-142T-1-TP-SC-RJS	120	Rapid	0.40	0.50	150	1.00	-18/0	90/194	3	P1-1	L8	●	●	Special Order	
		KTEB-142T-1-TP-SCS	120	Rapid	0.40	0.50	150	1.00	-18/0	90/194	3	P1-1	L8	●	●	Special Order	
	30	KTEB-226-UV-TP-PIC-DW KTEB-226-UV-TP-PIC-DW-KIT	120-277	Rapid	0.26-0.11	0.96	12	1.05	-18/0	75/167	5	P1-2	W1	●		Quick Ship	
	24	KTEB-226-UV-TP-PSD	120-277	Program	0.20-0.09	0.95	10	0.90	-18/0	90/194	5	P1-2	W1	●		Quick Ship	
	32	KTEB-242T-UV-TP-PIC-DW KTEB-242T-UV-TP-PIC-DW-KIT	120-277	Rapid	0.27-0.13	0.95	10	1.00	-18/0	75/167	5	P1-2	W2	●		Quick Ship	
		KTEB-242T-UV-TP-PSD	120-277	Program	0.27-0.13	0.95	10	1.00	-18/0	90/194	5	P1-2	W2	●		Quick Ship	
2	51	KTEB-226-1-TP-DW	120	Rapid	0.80	0.50	150	1.00	-18/0	75/167	3	P2-2	W1	●		Special Order	
		KTEB-226-1-TP-SC	120	Rapid	0.80	0.50	150	1.00	-18/0	90/194	3	P2-1	L8	●		Special Order	
		KTEB-226-1-TP-SC-RJ	120	Rapid	0.80	0.50	150	1.00	-18/0	90/194	3	P2-1	L8	●		Special Order	
		KTEB-226-1-TP-SC-RJS	120	Rapid	0.80	0.50	150	1.00	-18/0	90/194	3	P2-1	L8	●		Special Order	
		KTEB-226-1-TP-SCS	120	Rapid	0.80	0.50	150	1.00	-18/0	90/194	3	P2-1	L8	●		Special Order	
	54	KTEB-226-UV-TP-PIC-DW KTEB-226-UV-TP-PIC-DW-KIT	120-277	Rapid	0.46-0.20	0.98	10	0.95	-18/0	75/167	5	P2-2	W1	●		Quick Ship	
	48	KTEB-226-UV-TP-PSD	120-277	Program	0.40-0.18	0.98	10	0.90	-18/0	90/194	5	P2-2	W1	●		Quick Ship	
	56	KTEB-242T-UV-TP-PIC-DW KTEB-242T-UV-TP-PIC-DW-KIT	120-277	Rapid	0.48-0.21	0.97	10	1.00	-18/0	75/167	5	P2-2	W2	●		Quick Ship	
54	KTEB-242T-UV-TP-PSD	120-277	Program	0.45-0.21	0.97	10	0.90	-18/0	90/194	5	P2-2	W2	●		Quick Ship		
CFTR32W/GX24q																	
1	33	KTEB-142T-1-TP-SC	120	Rapid	0.50	0.50	130	0.95	-18/0	90/194	3	P1-1	L8	●	●	Special Order	
		KTEB-142T-1-TP-SC-RJ	120	Rapid	0.50	0.50	130	0.95	-18/0	90/194	3	P1-1	L8	●	●	Special Order	
		KTEB-142T-1-TP-SC-RJS	120	Rapid	0.50	0.50	130	0.95	-18/0	90/194	3	P1-1	L8	●	●	Special Order	
		KTEB-142T-1-TP-SCS	120	Rapid	0.50	0.50	130	0.95	-18/0	90/194	3	P1-1	L8	●	●	Special Order	
	41	KTEB-226-UV-TP-PIC-DW KTEB-226-UV-TP-PIC-DW-KIT	120-277	Rapid	0.35-0.15	0.98	10	1.10	-18/0	75/167	5	P1-2	W1	●		Quick Ship	
	36	KTEB-226-UV-TP-PSD	120-277	Program	0.30-0.13	0.98	10	1.00	-18/0	90/194	5	P1-2	W1	●		Quick Ship	
	42	KTEB-242T-UV-TP-PIC-DW KTEB-242T-UV-TP-PIC-DW-KIT	120-277	Rapid	0.35-0.13	0.96	10	0.96	-18/0	75/167	5	P1-2	W2	●		Quick Ship	
		KTEB-242T-UV-TP-PSD	120-277	Program	0.35-0.13	0.96	10	0.96	-18/0	90/194	5	P1-2	W2	●		Quick Ship	

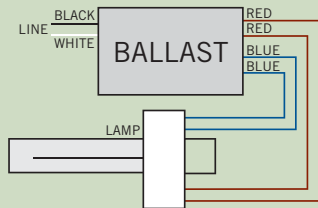
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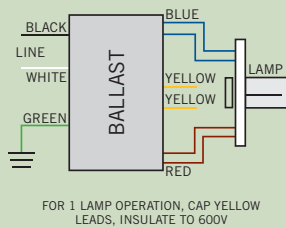
COMPACT FLUORESCENT

WIRING DIAGRAMS

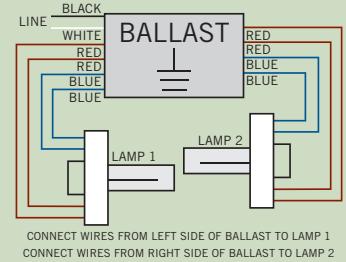
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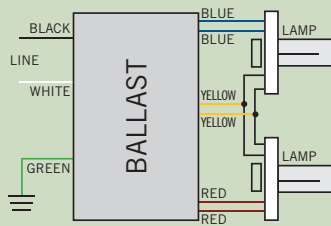
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P2-1



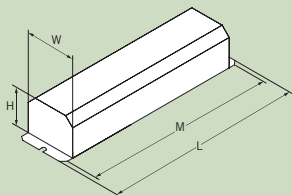
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COMPACT FLUORESCENT
CFL

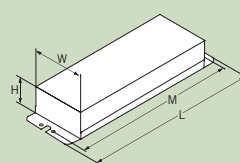
CASE STYLES

CASE C



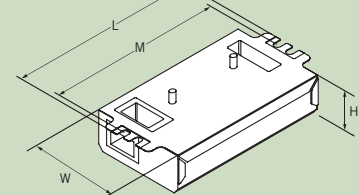
CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
C6	6.00"	6.46"	1.89"	0.98"

CASE L



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
L1	6.00"	6.46"	1.89"	1.00"
LB	3.60"	4.00"	1.87"	1.18"

CASE W*



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
W1	4.63"	5.00"	2.40"	1.00"
W2	4.63"	5.00"	3.00"	1.38"

* Available with and without studs.

Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

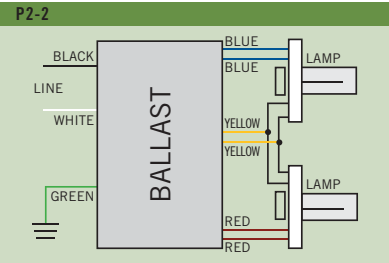
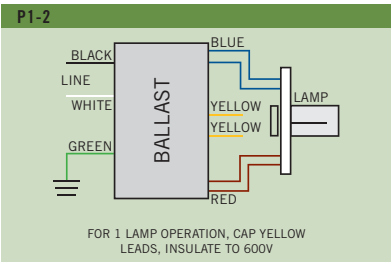
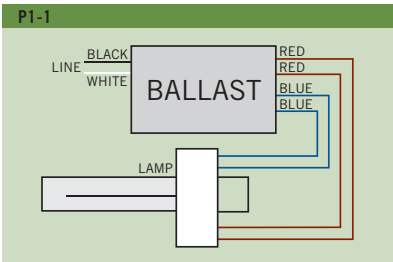
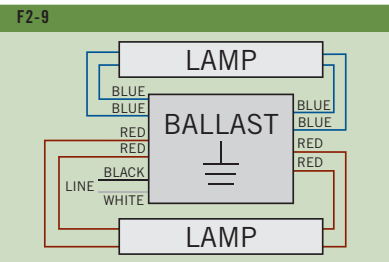
COMPACT FLUORESCENT



COMPACT FLUORESCENT
CFL

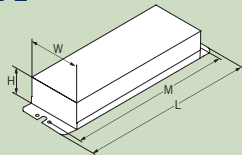
LAMP TYPE	NO. OF LAMPS	INPUT POWER (W)	CATALOG NUMBER	INPUT VOLTS	STARTING METHOD	LINE CURRENT	MIN. POWER FACTOR	MAX THD	BALLAST FACTOR	MIN. START TEMP (°C/°F)	MAX CASE TEMP. (°C/°F)	WARRANTY	WIRING DIAGRAM	CASE STYLE	APPROVALS		STATUS
																	
CFTR32W/GX24q																	
2	61	KTEB-240-1-TP	120	Rapid	0.91	0.50	150	0.89	-18/0	75/167	3	F2-9	L1	●			Quick Ship
	69	KTEB-242T-UV-TP-PIC-DW	120-277	Rapid	0.56-0.23	0.96	10	0.90	-18/0	75/167	5	P2-2	W2	●			Quick Ship
		KTEB-242T-UV-TP-PIC-DW-KIT	120-277	Program	0.56-0.25	0.96	10	0.90	-18/0	90/194	5	P2-2	W2	●			Quick Ship
CFTR42W/GX24q																	
1	37	KTEB-142T-1-TP-SC	120	Rapid	0.54	0.50	120	0.80	-18/0	90/194	3	P1-1	L8	●	●		Special Order
		KTEB-142T-1-TP-SC-RJ	120	Rapid	0.54	0.50	120	0.80	-18/0	90/194	3	P1-1	L8	●	●		Special Order
		KTEB-142T-1-TP-SC-RJS	120	Rapid	0.54	0.50	120	0.80	-18/0	90/194	3	P1-1	L8	●	●		Special Order
		KTEB-142T-1-TP-SCS	120	Rapid	0.54	0.50	120	0.80	-18/0	90/194	5	P1-2	W2	●			Special Order
2	84	KTEB-242T-UV-TP-PIC-DW	120-277	Rapid	0.70-0.30	0.98	10	0.90	-18/0	75/167	5	P2-2	W2	●			Quick Ship
		KTEB-242T-UV-TP-PIC-DW-KIT	120-277	Rapid	0.70-0.30	0.98	10	0.90	-18/0	75/167	5	P2-2	W2	●			Quick Ship
		KTEB-242T-UV-TP-PSD	120-277	Program	0.70-0.30	0.98	10	0.90	-18/0	90/194	5	P2-2	W2	●			Quick Ship

WIRING DIAGRAMS



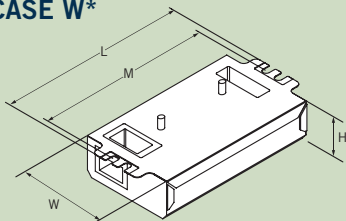
CASE STYLES

CASE L



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
L1	6.00"	6.46"	1.89"	1.00"
L8	3.60"	4.00"	1.87"	1.18"

CASE W*



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
W2	4.63"	5.00"	3.00"	1.38"

* Available with and without studs.

Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

CONTENTS

3-2 | Pulse Start
Metal Halide

3-6 | Metal Halide

3-10 | High Pressure
Sodium

3-14 | F-Can

3-15 | Accessories

3-17 | Wiring
Schematics

3-18 | HID Kits



Known for dependability and superior efficiency, Keystone's high intensity discharge (HID) ballasts are perfectly suited for even the most demanding HID lighting applications. Keystone utilizes sophisticated manufacturing and quality control processes to guarantee solid performance in the field. Demand the most durable and energy efficient HID ballasts on the market: Demand Keystone!



EISA Compliant Pulse Start Ballasts - Keystone's new lineup of pulse start metal halide ballasts exceeds the efficiency standards established by the Energy Independence and Security Act of 2009 (EISA). Now available from 175 through 450W, single, quad, and 5 tap.



Ballast Replacement Kits - Many Keystone HID ballasts are available in contractor-friendly ballast replacement kits. Featuring a multi-tap ballast, pre-wired at the factory with the appropriate capacitor and ignitor, Keystone's HID kits make for a hassle-free and error-free installation. See page 3-18 for a complete guide.



F-Can Ballasts - Keystone's Metal Halide F-Can ballasts are ideal for recessed downlighting applications, particularly in demanding environments where long life and high performance are essential.



CATALOG NUMBER DESIGNATIONS

MH: Metal Halide
MPS: Pulse Start Metal Halide
HPS: High Pressure Sodium
X: High Reactance Circuit
A: CWA Circuit
1: 120V, Single Tap

4: 480V, Single Tap
D: 120/277V, Dual Tap
Q: 120/208/240/277V, Quad Tap
P: 120/208/240/277/480V, 5 Tap
T3: 120/277/347, Tri Tap
HP: High Power

CA: Copper Winding on Primary Coil,
Aluminum Winding on Secondary Coil
AA: Aluminum Winding on Primary Coil,
Aluminum Winding on Secondary Coil
KIT: HID Replacement Kit
FCAN: Fluorescent Case Style



Pulse Start Metal Halide

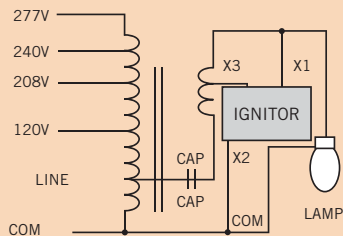
INPUT VOLTS	NO. OF TAPS	CATALOG NUMBER	CIRCUIT TYPE	INPUT WATTS	INPUT CURRENT	CAP. MFD	CAP. VOLTAGE	CAP. TYPE	IGNITOR	UL BENCH TOP RISE	WIRING DIAGRAM	CASE STYLE	APPROVALS		STATUS
															
(1) 175 Watt M137/M152 Pulse Start Metal Halide Lamp															
480	Single	MPS-175A-4-HP	CWA	198	0.43	11	370	Dry	XG-04	A	H9A	A49			Special Order
120/480	Dual	MPS-175A-D4-HP	CWA	198	1.75/0.43	11	370	Dry	XG-04	A	H9B	A50			Special Order
120/277/347	Tri	MPS-175A-T3-HP	CWA	198	1.75/0.75/0.60	11	370	Dry	XG-04	A	H7A	A52			Special Order
120/208/240/277	Quad	MPS-175A-Q-HP MPS-175A-Q-KIT	CWA	198	1.75/1.00/ 0.86/0.75	11	370	Dry	XG-04	A	H3	A48			Quick Ship
120/208/240/277/480	5 Tap	MPS-175A-P-HP MPS-175A-P-KIT	CWA	198	1.75/1.00/0.86/ 0.75/0.43	11	370	Dry	XG-04	A	H9	A51			Quick Ship
(1) 200 Watt M136 Pulse Start Metal Halide Lamp															
480	Single	MPS-200A-4-HP	CWA	227	0.50	15	330	Dry	XG-04	A	H9A	A49			Special Order
120/480	Dual	MPS-200A-D4-HP	CWA	227	2.00/0.50	15	330	Dry	XG-04	A	H9B	A49			Special Order
120/277/347	Tri	MPS-200A-T3-HP	CWA	227	2.00/0.86/0.69	15	330	Dry	XG-04	A	H7A	A49			Special Order
120/208/240/277	Quad	MPS-200A-Q-HP MPS-200A-Q-KIT	CWA	227	2.00/1.15/ 1.00/0.86	15	330	Dry	XG-04	A	H3	A49			Quick Ship
120/208/240/277/480	5 Tap	MPS-200A-P-HP MPS-200A-P-KIT	CWA	227	2.00/1.15/1.00/ 0.86/0.50	15	330	Dry	XG-04	A	H9	A49			Quick Ship
(1) 250 Watt M138/M153 Pulse Start Metal Halide Lamp															
480	Single	MPS-250A-4-HP	CWA	284	0.62	17	400	Dry	XG-04	A	H9A	A50			Special Order
120/480	Dual	MPS-250A-D4-HP	CWA	284	2.50/0.62	17	400	Dry	XG-04	A	H9B	A50			Special Order
120/277/347	Tri	MPS-250A-T3-HP	CWA	284	2.50/1.10/0.86	17	400	Dry	XG-04	A	H7A	A50			Special Order
120/208/240/277	Quad	MPS-250A-Q-HP MPS-250A-Q-KIT	CWA	284	2.50/1.44/ 1.25/1.10	17	400	Dry	XG-04	A	H3	A50			Quick Ship
120/208/240/277/480	5 Tap	MPS-250A-P-HP MPS-250A-P-KIT	CWA	284	2.50/1.44/1.25/ 1.10/0.62	17	400	Dry	XG-04	A	H9	A50			Quick Ship
(1) 320 Watt M132 Pulse Start Metal Halide Lamp															
120	Single	MPS-320A-1-HP	CWA	363	3.20	21	345	Dry	XG-04	D	H3B	A51			Special Order
480	Single	MPS-320A-4-CA	CWA	363	0.80	21	345	Dry	XG-04	B	H9A	A51			Special Order
120/277	Dual	MPS-320A-D-HP	CWA	363	3.20/1.38	21	345	Dry	XG-04	D	H3A	A51			Special Order
120/480	Dual	MPS-320A-D4-CA	CWA	363	3.20/0.80	21	345	Dry	XG-04	D	H9B	A51			Special Order
120/277/347	Tri	MPS-320A-T3-CA	CWA	363	3.20/1.38/1.10	21	345	Dry	XG-04	C	H7A	A51			Special Order
120/208/240/277	Quad	MPS-320A-Q-HP	CWA	363	3.20/1.84/ 1.60/1.38	21	345	Dry	XG-04	D	H3	A51			Special Order
		MPS-320A-Q-CA MPS-320A-Q-KIT	CWA	363	3.20/1.84/ 1.60/1.38	21	345	Dry	XG-04	A	H3	A51			Quick Ship
120/208/240/277/480	5 Tap	MPS-320A-P-CA MPS-320A-P-KIT	CWA	363	3.20/1.84/1.60/ 1.38/0.80	21	345	Dry	XG-04	C	H9	A51			Quick Ship
(1) 350 Watt M131 Pulse Start Metal Halide Lamp															
120	Single	MPS-350A-1-HP	CWA	397	3.50	22.5	360	Dry	XG-04	D	H3B	A52			Special Order
480	Single	MPS-350A-4-CA	CWA	397	0.87	22.5	360	Dry	XG-04	D	H9A	A52			Special Order
120/277	Dual	MPS-350A-D-HP	CWA	397	3.50/1.50	22.5	360	Dry	XG-04	D	H3A	A52			Special Order
120/480	Dual	MPS-350A-D4-CA	CWA	397	3.50/0.87	22.5	360	Dry	XG-04	D	H9B	A52			Special Order
120/277/347	Tri	MPS-350A-T3-CA	CWA	397	3.50/1.50/1.20	22.5	360	Dry	XG-04	C	H7A	A52			Special Order
120/208/240/277	Quad	MPS-350A-Q-HP	CWA	397	3.50/2.00/1.75/1.50	22.5	360	Dry	XG-04	D	H3	A52			Special Order
		MPS-350A-Q-CA MPS-350A-Q-KIT	CWA	397	3.50/2.00/ 1.75/1.50	22.5	360	Dry	XG-04	C	H3	A52			Quick Ship
120/208/240/277/480	5 Tap	MPS-350A-P-CA MPS-350A-P-KIT	CWA	397	3.50/2.00/1.75/ 1.50/0.87	22.5	360	Dry	XG-04	C	H9	A52			Quick Ship

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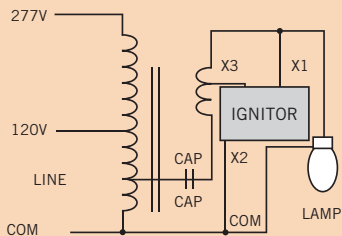


WIRING DIAGRAMS

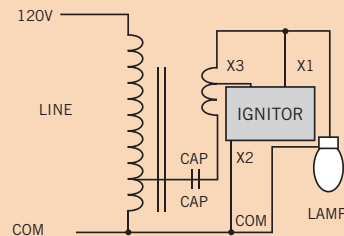
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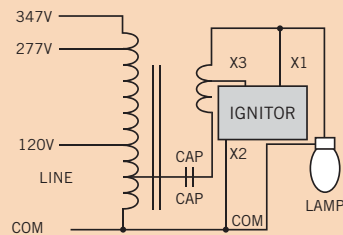
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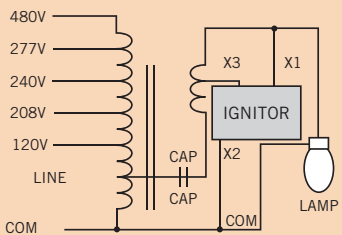
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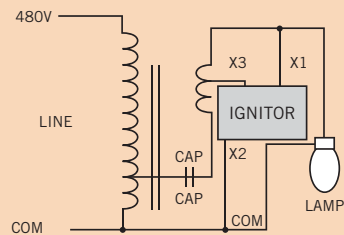
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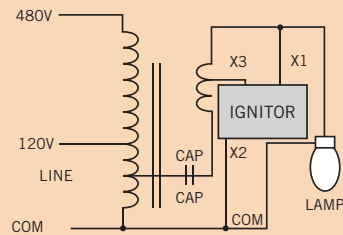
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H9A

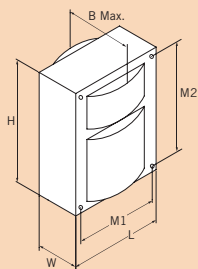


H9B



CASE STYLES

CASE A



CASE STYLE	M1	M2	LENGTH	WIDTH	HEIGHT	B MAX
A48	2.44"	3.50"	2.81"	3.07"	3.94"	4.92"
A49	2.44"	3.50"	2.81"	2.89"	3.94"	4.72"
A50	3.88"	4.38"	4.25"	1.52"	4.75"	4.13"
A51	3.88"	4.38"	4.25"	1.81"	4.75"	4.33"
A52	3.88"	4.38"	4.25"	1.93"	4.75"	4.45"

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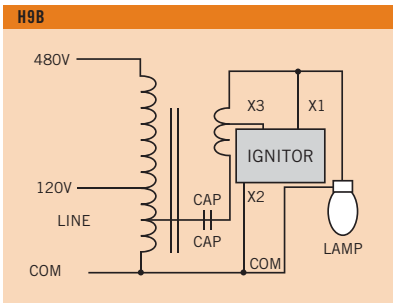
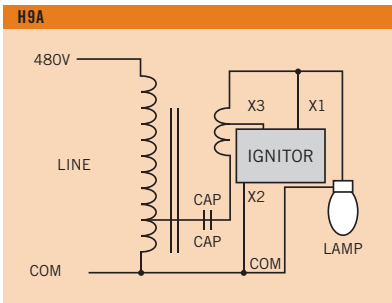
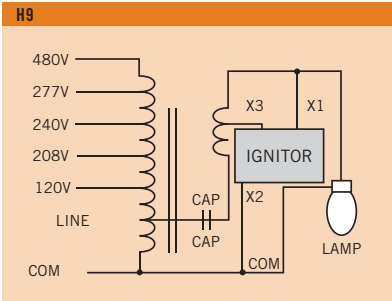
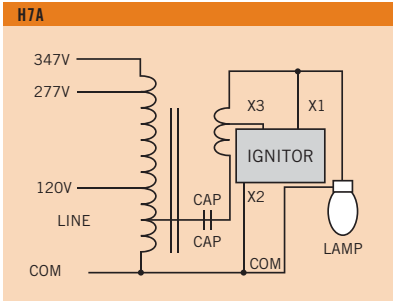
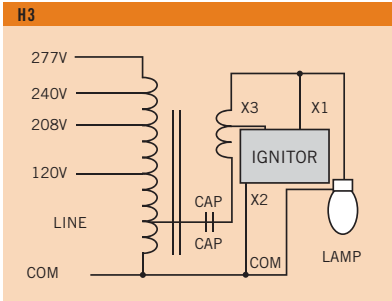
Pulse Start Metal Halide

INPUT VOLTS	NO. OF TAPS	CATALOG NUMBER	CIRCUIT TYPE	INPUT WATTS	INPUT CURRENT	CAP. MFD	CAP. VOLTAGE	CAP. TYPE	IGNITOR	UL BENCH TOP RISE	WIRING DIAGRAM	CASE STYLE	APPROVALS		STATUS
															
(1) 400 Watt M155 Pulse Start Metal Halide Lamp															
480	Single	MPS-400A-4-CA MPS-400A-4-KIT	CWA	454	1.00	26	330	Dry	XG-04	E	H9A	A53			Quick Ship
120/480	Dual	MPS-400A-D4-CA	CWA	454	4.00/1.00	26	330	Dry	XG-04	E	H9B	A53			Special Order
120/277/347	Tri	MPS-400A-T3-CA	CWA	454	4.00/1.73/1.38	26	330	Dry	XG-04	E	H7A	A53			Special Order
120/208/240/277	Quad	MPS-400A-Q-CA MPS-400A-Q-KIT	CWA	454	4.00/2.30/1.90/1.73	26	330	Dry	XG-04	E	H3	A53			Quick Ship
120/208/240/277/480	5 Tap	MPS-400A-P-CA MPS-400A-P-KIT	CWA	454	4.00/2.30/1.90/1.73/1.00	26	330	Dry	XG-04	E	H9	A53			Quick Ship
(1) 450 Watt M144 Pulse Start Metal Halide Lamp															
480	Single	MPS-450A-4-HP	CWA	511	1.12	26.5	400	Dry	XG-04	A	H9A	A54			Special Order
120/480	Dual	MPS-450A-D4-HP	CWA	511	4.50/1.12	26.5	400	Dry	XG-04	C	H9B	A54			Special Order
120/277/347	Tri	MPS-450A-T3-HP	CWA	511	4.50/1.95/1.55	26.5	400	Dry	XG-04	C	H7A	A54			Special Order
120/208/240/277	Quad	MPS-450A-Q-HP MPS-450A-Q-KIT	CWA	511	4.50/2.60/2.24/1.95	26.5	400	Dry	XG-04	C	H3	A54			Quick Ship
120/208/240/277/480	5 Tap	MPS-450A-P-HP MPS-450A-P-KIT	CWA	511	4.50/2.60/2.24/1.95/1.12	26.5	400	Dry	XG-04	C	H9	A54			Quick Ship
(1) 750 Watt M149 Pulse Start Metal Halide Lamp															
480	Single	MPS-750A-4-CA	CWA	810	1.75	28	400	Oil	XG-05	A	H9A	A56			Special Order
120/208/240/277	Quad	MPS-750A-Q-CA MPS-750A-Q-KIT	CWA	810	6.90/4.00/3.50/3.00	28	400	Oil	XG-05	C	H3	A56			Quick Ship
120/208/240/277/480	5 Tap	MPS-750A-P-CA	CWA	810	6.90/4.00/3.50/3.00/1.75	28	400	Oil	XG-05	C	H9	A56			Special Order
(1) 875 Watt M166 Pulse Start Metal Halide Lamp															
480	Single	MPS-875A-4-CA	CWA	924	2.10	21	480	Oil	XG-05	D	H9A	A56			Special Order
120/208/240/277	Quad	MPS-875A-Q-CA	CWA	924	8.10/4.70/4.10/3.50	21	480	Oil	XG-05	E	H3	A56			Special Order
120/208/240/277/480	5 Tap	MPS-875A-P-CA	CWA	924	8.10/4.70/4.10/3.50/2.10	21	480	Oil	XG-05	E	H9	A56			Special Order
(1) 1000 Watt M141 Pulse Start Metal Halide Lamp															
480	Single	MPS-1000A-4-CA	CWA	1037	2.20	24	480	Oil	XG-03	D	H9A	A56			Special Order
120/208/240/277	Quad	MPS-1000A-Q-CA MPS-1000A-Q-KIT	CWA	1037	8.90/5.10/4.50/3.90	24	480	Oil	XG-03	E	H3	A56			Quick Ship
120/208/240/277/480	5 Tap	MPS-1000A-P-CA	CWA	1037	8.90/5.10/4.50/3.90/2.20	24	480	Oil	XG-03	D	H9	A56			Special Order

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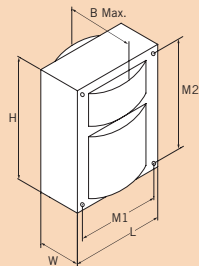
WIRING DIAGRAMS



HID
Pulse Start

CASE STYLES

CASE A



CASE STYLE	M1	M2	LENGTH	WIDTH	HEIGHT	B MAX
A53	3.88"	4.38"	4.25"	2.11"	4.75"	4.72"
A54	3.88"	4.38"	4.25"	2.30"	4.75"	4.92"
A56	3.88"	5.38"	4.25"	2.81"	6.00"	5.51"

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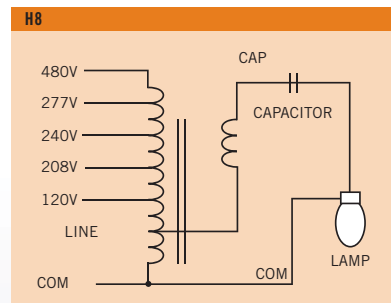
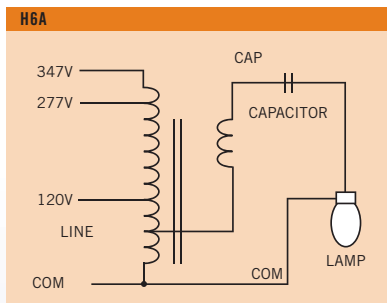
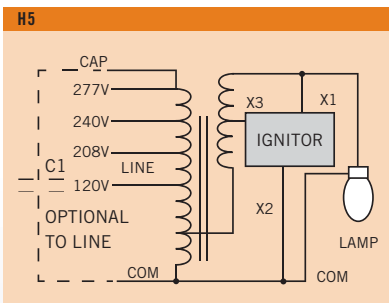
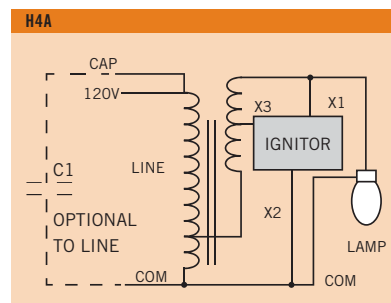
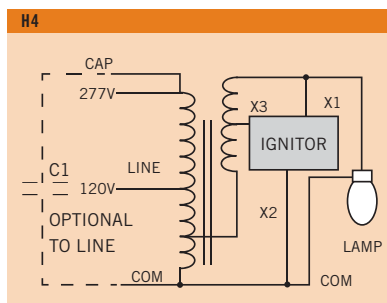
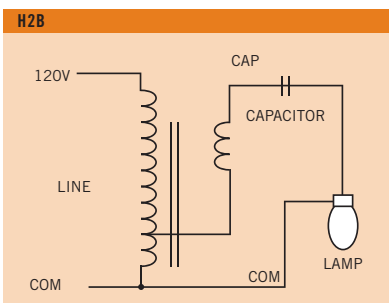
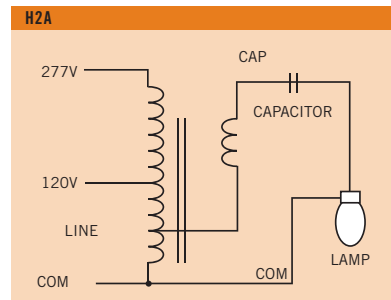
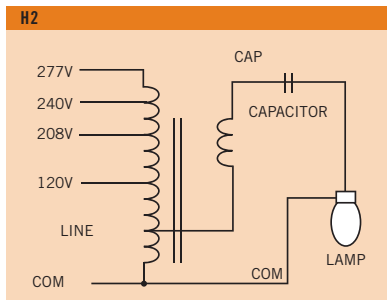
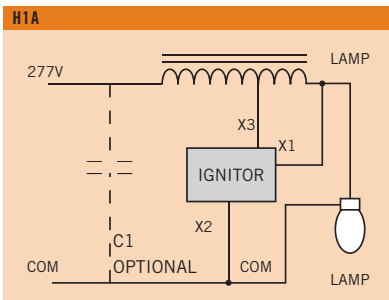
Metal Halide

INPUT VOLTS	NO. OF TAPS	CATALOG NUMBER	CIRCUIT TYPE	INPUT WATTS	INPUT CURRENT	CAP. MFD	CAP. VOLTAGE	CAP. TYPE	IGNITOR	UL BENCH TOP RISE	WIRING DIAGRAM	CASE STYLE	APPROVALS	STATUS
														
(1) 50 Watt M110 Metal Halide Lamp														
120	Single	MH-50X-1	HX-NPF	67	1.70	6	280	Dry	XG-04	A	H4A	A7	●	Special Order
			HX-HPF (with Cap.)		0.64									
277	Single	MH-50R-2	R-NPF	60	0.63	5	280	Dry	XG-04	A	H1A	R6	●	Special Order
			R-HPF (with Cap.)		0.24									
120/277	Dual	MH-50X-D MH-50X-D-KIT	HX-NPF	67	1.70/0.70	6	280	Dry	XG-04	A	H4	A7	●	Special Order
			HX-HPF (with Cap.)		0.64/0.28									
120/208/ 240/277	Quad	MH-50X-Q MH-50X-Q-KIT	HX-NPF	67	1.70/0.98/0.85/0.70	6	280	Dry	XG-04	A	H5	A7	●	Quick Ship
			HX-HPF (with Cap.)		0.64/0.37/0.32/0.28									
(1) 70 Watt M98 Metal Halide Lamp														
120	Single	MH-70X-1	HX-NPF	91	2.50	8	280	Dry	XG-04	A	H4A	A8	●	Special Order
			HX-HPF (with Cap.)		0.83									
277	Single	MH-70R-2	R-NPF	80	0.90	8	280	Dry	XG-04	A	H1A	R4	●	Special Order
			R-HPF (with Cap.)		0.31									
120/277	Dual	MH-70X-D	HX-NPF	91	2.50/1.10	8	280	Dry	XG-04	A	H4	A8	●	Special Order
			HX-HPF (with Cap.)		0.83/0.38									
120/208/ 240/277	Quad	MH-70X-Q MH-70X-Q-KIT	HX-NPF	91	2.50/1.46/1.26/1.10	8	280	Dry	XG-04	A	H5	A8	●	Quick Ship
			HX-HPF (with Cap.)		0.83/0.49/0.42/0.38									
(1) 100 Watt M90 Metal Halide Lamp														
120	Single	MH-100X-1	HX-NPF	125	3.10	12	280	Dry	XG-04	A	H4A	A10	●	Special Order
			HX-HPF (with Cap.)		1.10									
277	Single	MH-100R-2	R-NPF	118	1.30	10	280	Dry	XG-04	A	H1A	R7	●	Special Order
			R-HPF (with Cap.)		0.47									
120/277	Dual	MH-100X-D	HX-NPF	125	3.10/1.40	12	280	Dry	XG-04	A	H4	A10	●	Special Order
			HX-HPF (with Cap.)		1.10/0.48									
120/208 240/277	Quad	MH-100X-Q MH-100X-Q-KIT	HX-NPF	125	3.10/1.90/1.63/1.40	12	280	Dry	XG-04	A	H5	A10	●	Quick Ship
			HX-HPF (with Cap.)		1.10/0.65/0.58/0.48									
(1) 150 Watt M102 Metal Halide Lamp														
120	Single	MH-150X-1	HX-NPF	186	3.40	16	280	Dry	XG-04	A	H4A	A12	●	Special Order
			HX-HPF (with Cap.)		1.59									
277	Single	MH-150R-2	R-NPF	176	1.85	14	280	Dry	XG-04	A	H1A	R8	●	Special Order
			R-HPF (with Cap.)		0.71									
120/277	Dual	MH-150X-D	HX-NPF	186	3.40/1.90	16	280	Dry	XG-04	A	H4	A12	●	Special Order
			HX-HPF (with Cap.)		1.59/0.67									
120/208/ 240/277	Quad	MH-150X-Q MH-150X-Q-KIT	HX-NPF	186	3.40/2.60/2.00/1.90	16	280	Dry	XG-04	A	H5	A12	●	Quick Ship
			HX-HPF (with Cap.)		1.59/0.97/0.81/0.67									
(1) 175 Watt M57/H39 Metal Halide Lamp														
120	Single	MH-175A-1-HP	CWA	205	1.90	10	400	Dry	–	B	H2B	A1	●	Special Order
120/277	Dual	MH-175A-D-HP	CWA	205	1.90/0.80	10	400	Dry	–	B	H2A	A1	●	Special Order
120/277/ 347	Tri	MH-175A-T3-HP	CWA	205	1.90/0.80/0.70	10	400	Dry	–	A	H6A	A26	●	Special Order
120/208/ 240/277	Quad	MH-175A-Q-HP	CWA	205	1.90/1.10/0.95/0.80	10	400	Dry	–	B	H2	A1	●	Special Order
		MH-175A-Q-AA	CWA	205	1.90/1.10/0.95/0.80	10	400	Dry	–	D	H2	A34	●	Special Order
		MH-175A-Q-CA MH-175A-Q-KIT	CWA	205	1.90/1.10/0.95/ 0.80/0.70	10	400	Dry	–	B	H2	A34	●	Quick Ship
120/208/ 240/277/ 480	5 Tap	MH-175A-P-HP	CWA	205	1.90/1.10/0.95/ 0.80/0.48	10	400	Dry	–	A	H8	A41	●	Special Order
		MH-175A-P-CA MH-175A-P-KIT	CWA	205	1.90/1.10/0.95/ 0.80/0.48	10	400	Dry	–	D	H8	A42	●	Quick Ship

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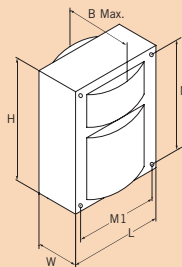


WIRING DIAGRAMS



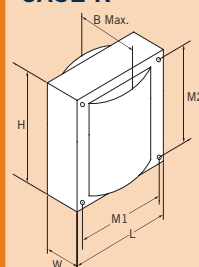
CASE STYLES

CASE A



CASE STYLE	M1	M2	LENGTH	WIDTH	HEIGHT	B MAX
A1	2.44"	3.50"	2.80"	2.42"	3.94"	3.86"
A7	2.44"	3.50"	2.80"	1.04"	3.94"	1.04"
A8	2.44"	3.50"	2.80"	2.46"	3.94"	2.91"
A10	2.44"	3.50"	2.80"	1.58"	3.94"	2.95"
A12	2.44"	3.50"	2.80"	2.28"	3.94"	3.70"
A26	2.44"	3.50"	2.80"	2.42"	3.94"	3.74"
A34	2.45"	3.50"	2.83"	2.48"	3.94"	3.70"
A41	2.44"	3.50"	2.80"	2.48"	3.94"	4.20"
A42	2.44"	3.50"	2.80"	2.42"	3.94"	4.02"

CASE R



CASE STYLE	M1	M2	LENGTH	WIDTH	HEIGHT	B MAX
R4	2.19"	1.79"	2.64"	1.54"	2.25"	2.72"
R6	2.19"	1.79"	2.64"	1.14"	2.25"	2.29"
R7	2.19"	1.79"	2.64"	1.61"	2.25"	2.80"
R8	2.19"	1.79"	2.64"	2.54"	2.25"	3.78"

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Metal Halide

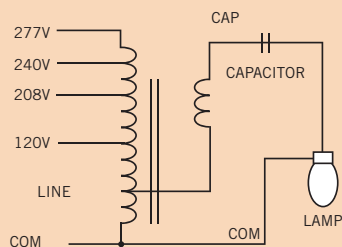
INPUT VOLTS	NO. OF TAPS	CATALOG NUMBER	CIRCUIT TYPE	INPUT WATTS	INPUT CURRENT	CAP. MFD	CAP. VOLTAGE	CAP. TYPE	IGNITOR	UL BENCH TOP RISE	WIRING DIAGRAM	CASE STYLE	APPROVALS	STATUS
														
(1) 250 Watt M58/H37 Metal Halide Lamp														
120	Single	MH-250A-1-HP	CWA	292	2.50	15	400	Dry	–	B	H2B	A15		Special Order
480	Single	MH-250A-4-HP MH-250A-4-KIT	CWA	290	0.63	15	400	Dry	–	A	H8A	A60		Quick Ship
120/277	Dual	MH-250A-D-HP	CWA	292	2.50/1.10	15	400	Dry	–	B	H2A	A15		Special Order
120/277/347	Tri	MH-250A-T3-HP	CWA	292	2.50/1.10/0.90	15	400	Dry	–	A	H6A	A27		Special Order
120/208/ 240/277	Quad	MH-250A-Q-HP	CWA	292	2.50/1.50/1.30/1.10	15	400	Dry	–	B	H2	A15		Special Order
		MH-250A-Q-AA	CWA	292	2.50/1.50/1.30/1.10	15	400	Dry	–	A	H2	A39		Special Order
		MH-250A-Q-CA MH-250A-Q-KIT	CWA	292	2.50/1.50/1.30/1.10	15	400	Dry	–	B	H2	A39		Quick Ship
120/208/240/ 277/480	5-Tap	MH-250A-P-HP	CWA	292	2.50/1.50/1.30/ 1.10 /0.60	15	400	Dry	–	A	H8	A28		Special Order
		MH-250A-P-CA MH-250A-P-KIT	CWA	292	2.50/1.50/1.30/ 1.10 /0.60	15	400	Dry	–	A	H8	A43		Quick Ship
(1) 400 Watt M59/H33 Metal Halide Lamp														
120	Single	MH-400A-1-HP	CWA	450	4.20	24	400	Dry	–	E	H2B	A16		Special Order
480	Single	MH-400A-4-HP MH-400A-4-KIT	CWA	450	1.10	24	400	Dry	–	D	H8A	A31		Quick Ship
120/277	Dual	MH-400A-D-HP	CWA	450	4.20/1.80	24	400	Dry	–	E	H2A	A16		Special Order
120/277/347	Tri	MH-400A-T3-HP	CWA	450	4.20/1.80/1.45	24	400	Dry	–	B	H6A	A29		Special Order
120/208/ 240/277	Quad	MH-400A-Q-HP	CWA	450	4.20/2.44/2.10/1.80	24	400	Dry	–	E	H2	A16		Special Order
		MH-400A-Q-AA	CWA	450	4.20/2.44/2.10/1.80	24	400	Dry	–	E	H2	A40		Special Order
		MH-400A-Q-CA MH-400A-Q-KIT	CWA	450	4.20/2.44/ 2.10/1.80	24	400	Dry	–	C	H2	A44		Quick Ship
120/208/240/ 277/480	5 Tap	MH-400A-P-HP	CWA	450	4.20/2.44/2.10/ 1.80/1.10	24	400	Dry	–	A	H8	A30		Special Order
		MH-400A-P-CA MH-400A-P-KIT	CWA	450	4.20/2.44/2.10/ 1.80/1.10	24	400	Dry	–	E	H8	A44		Quick Ship
(1) 1000 Watt M47/H36 Metal Halide Lamp														
120	Single	MH-1000A-1-HP	CWA	1070	9.00	24	480	Oil	–	E	H2B	A5		Special Order
480	Single	MH-1000A-4-CA MH-1000A-4-KIT	CWA	1080	2.30	24	480	Oil	–	C	H8A	A61		Quick Ship
120/277	Dual	MH-1000A-D-HP	CWA	1070	9.00/4.00	24	480	Oil	–	E	H2A	A5		Special Order
120/277/347	Tri	MH-1000A-T3-HP	CWA	1070	9.00/4.00/3.20	24	480	Oil	–	E	H6A	A32		Special Order
120/208/ 240/277	Quad	MH-1000A-Q-HP	CWA	1070	9.00/5.20/4.50/4.00	24	480	Oil	–	E	H2	A5		Special Order
		MH-1000A-Q-CA MH-1000A-Q-KIT	CWA	1070	9.00/5.20/ 4.50/4.00	24	480	Oil	–	D	H2	A5		Quick Ship
		MH-1000A-Q-AA	CWA	1070	9.00/5.20/4.50/4.00	24	480	Oil	–	E	H2	A57		Special Order
120/208/240/ 277/480	5 Tap	MH-1000A-P-HP	CWA	1070	9.00/5.20/4.50/ 4.00/2.30	24	480	Oil	–	D	H8	A33		Special Order
		MH-1000A-P-CA MH-1000A-P-KIT	CWA	1070	9.00/5.20/4.50/ 4.00/2.31	24	480	Oil	–	C	H8	A45		Quick Ship
(1) 1500 Watt M48 Metal Halide Lamp														
480	Single	MH-1500A-4-HP	CWA	1587	3.50	32	525	Oil	–	H	H8A	A58		Special Order
120/208/ 240/277	Quad	MH-1500A-Q-CA	CWA	1596	13.90/7.80/6.90/6.00	32	525	Oil	–	H	H2	A58		Special Order
		MH-1500A-Q-HP MH-1500A-Q-KIT	CWA	1595	13.90/7.80/ 6.90/6.00	32	525	Oil	–	H	H2	A58		Quick Ship
120/208/240/ 277/480	5 Tap	MH-1500A-P-CA	CWA	1610	13.90/7.80/6.90/ 6.00/3.50	32	525	Oil	–	G	H8	A59		Special Order
		MH-1500A-P-HP MH-1500A-P-KIT	CWA	1610	13.60/7.73/6.75/ 5.92/3.44	32	525	Oil	–	G	H8	A62		Quick Ship

Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

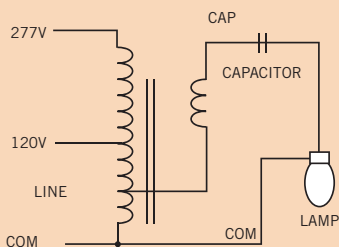


WIRING DIAGRAMS

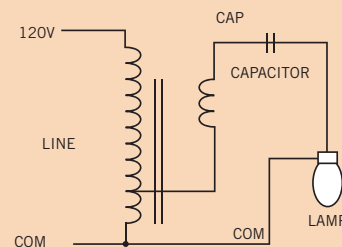
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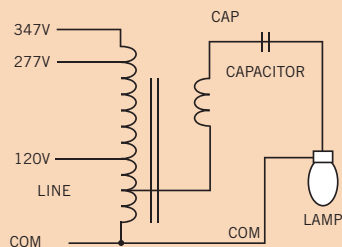
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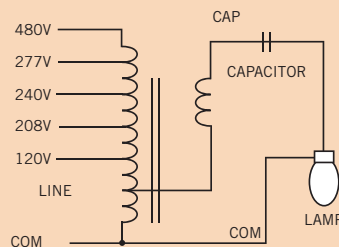
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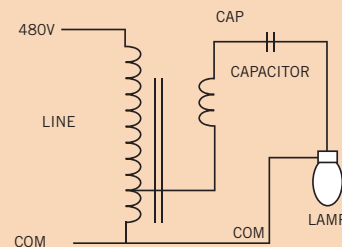
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H8

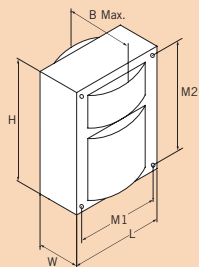


H8A



CASE STYLES

CASE A



CASE STYLE	M1	M2	LENGTH	WIDTH	HEIGHT	B MAX
A5	3.87"	5.37"	4.30"	2.84"	6.02"	6.30"
A15	3.87"	4.38"	4.30"	1.52"	4.80"	3.15"
A16	3.87"	4.38"	4.30"	2.03"	4.80"	3.70"
A27	3.87"	4.38"	4.30"	1.70"	4.80"	3.31"
A28	3.87"	4.38"	4.30"	1.65"	4.80"	3.31"
A29	3.87"	4.38"	4.30"	2.17"	4.80"	4.02"
A30	3.87"	4.38"	4.30"	2.17"	4.80"	4.02"
A31	3.87"	4.38"	4.30"	2.37"	4.80"	4.14"
A32	3.87"	5.37"	4.30"	2.84"	6.02"	4.92"
A33	3.87"	5.37"	4.30"	2.88"	6.02"	5.32"
A39	3.87"	4.38"	4.30"	1.65"	4.80"	3.62"
A40	3.87"	4.38"	4.30"	2.30"	4.80"	4.33"
A43	3.87"	4.38"	4.30"	1.65"	4.80"	3.62"
A44	3.87"	4.38"	4.30"	2.30"	4.80"	4.53"
A45	3.87"	5.37"	4.30"	3.46"	6.02"	5.71"
A57	3.88"	5.38"	4.25"	3.46"	6.00"	5.92"
A58	3.88"	5.38"	4.25"	4.72"	6.00"	7.28"
A59	3.88"	5.38"	4.25"	4.72"	6.00"	7.48"
A60	3.87"	4.38"	4.25"	1.65"	4.75"	3.75"
A61	3.87"	5.37"	4.25"	3.46"	6.00"	5.70"
A62	3.87"	5.37"	4.25"	4.13"	6.00"	6.69"

Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

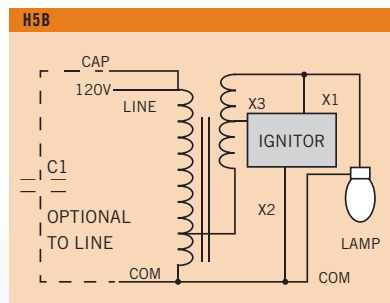
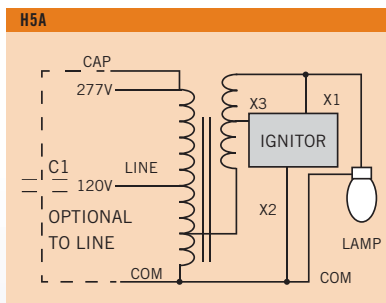
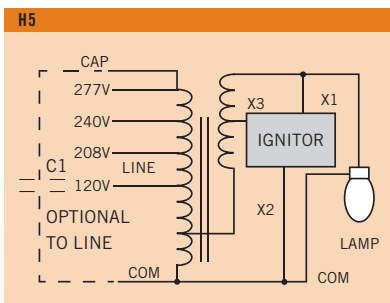
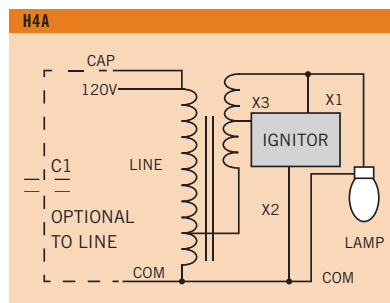
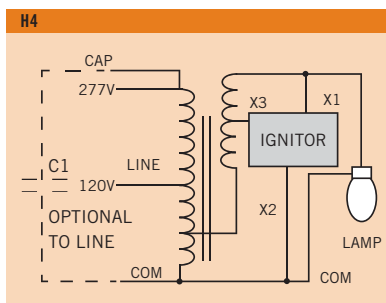
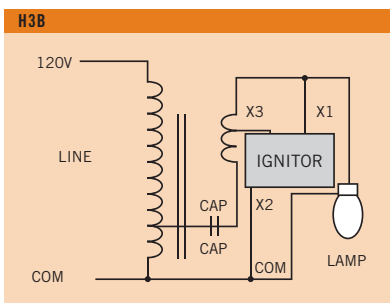
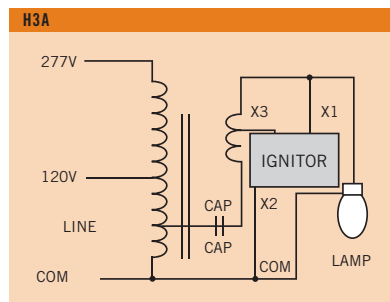
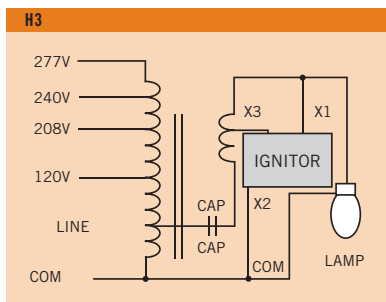
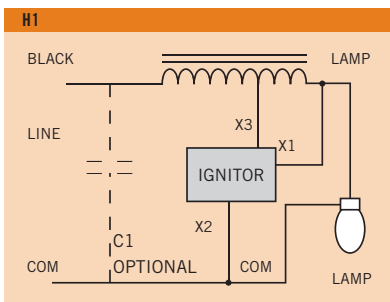


High Pressure Sodium

INPUT VOLTS	NO. OF TAPS	CATALOG NUMBER	CIRCUIT TYPE	INPUT WATTS	INPUT CURRENT	CAP. MFD	CAP. VOLTAGE	CAP. TYPE	IGNITOR	UL BENCH TOP RISE	WIRING DIAGRAM	CASE STYLE	APPROVALS 	STATUS
(1) 35 Watt S76 High Pressure Sodium Lamp														
120	Single	HPS-35R-1 HPS-35R-1-KIT	R-NPF R-HPF (with Cap.)	42	0.85 0.38	14	120	Dry	XG-01	A	H1	R1	●	Quick Ship
(1) 50 Watt S68 High Pressure Sodium Lamp														
120	Single	HPS-50R-1 HPS-50R-1-KIT	R-NPF R-HPF (with Cap.)	60	1.20 0.55	20	120	Dry	XG-01	A	H1	R2	●	Quick Ship
		HPS-50X-1	HX-NPF HX-HPF (with Cap.)	67	1.48 0.60	5	280	Dry	XG-01	A	H4A	A6	●	Special Order
120/277	Dual	HPS-50X-D	HX-NPF HX-HPF (with Cap.)	67	1.48/0.64 0.60/0.26	5	280	Dry	XG-01	A	H4	A6	●	Special Order
(1) 70 Watt S62 High Pressure Sodium Lamp														
120	Single	HPS-70R-1 HPS-70R-1-KIT	R-NPF R-HPF (with Cap.)	81	1.69 0.73	28	120	Dry	XG-01	A	H1	R3	●	Quick Ship
		HPS-70X-1	HX-NPF HX-HPF (with Cap.)	93	1.96 0.82	7	280	Dry	XG-01	A	H5B	A9	●	Special Order
120/277	Dual	HPS-70X-D	HX-NPF HX-HPF (with Cap.)	93	1.96/0.85 0.82/0.35	7	280	Dry	XG-01	A	H5A	A9	●	Special Order
120/208/ 240/277	Quad	HPS-70X-Q HPS-70X-Q-KIT	HX-NPF HX-HPF (with Cap.)	93	1.96/1.13/0.98/0.85 0.82/0.47/0.41/0.35	7	280	Dry	XG-01	A	H5	A9	●	Quick Ship
(1) 100 Watt S54 High Pressure Sodium Lamp														
120	Single	HPS-100R-1 HPS-100R-1-KIT	R-NPF R-HPF (with Cap.)	110	2.30 1.00	46	120	Dry	XG-01	A	H1	R4	●	Quick Ship
		HPS-100X-1	HX-NPF HX-HPF (with Cap.)	130	2.40 1.16	10	280	Dry	XG-01	A	H5B	A11	●	Special Order
120/277	Dual	HPS-100X-D	HX-NPF HX-HPF (with Cap.)	130	2.40/1.10 1.16/0.50	10	280	Dry	XG-01	A	H5A	A11	●	Special Order
120/208/ 240/277	Quad	HPS-100X-Q HPS-100X-Q-KIT	HX-NPF HX-HPF (with Cap.)	130	2.40/1.40/1.30/1.10 1.16/0.68/0.58/0.50	10	280	Dry	XG-01	A	H5	A11	●	Quick Ship
(1) 150 Watt S55 High Pressure Sodium Lamp														
120	Single	HPS-150R-1 HPS-150R-1-KIT	R-NPF R-HPF (with Cap.)	170	3.40 1.55	55	120	Dry	XG-01	A	H1	R5	●	Quick Ship
		HPS-150X-1	HX-NPF HX-HPF (with Cap.)	188	3.70 1.68	14	280	Dry	XG-01	A	H5B	A13	●	Special Order
120/277	Dual	HPS-150X-D	HX-NPF HX-HPF (with Cap.)	188	3.70/1.62 1.68/0.73	14	280	Dry	XG-01	A	H5A	A13	●	Special Order
120/208/ 240/277	Quad	HPS-150X-Q HPS-150X-Q-KIT	HX-NPF HX-HPF (with Cap.)	188	3.70/2.15/1.87/1.62 1.68/0.97/0.84/0.73	14	280	Dry	XG-01	A	H5	A13	●	Quick Ship
(1) 200 Watt S66 High Pressure Sodium Lamp														
120	Single	HPS-200A-1-HP	CWA	245	2.15	28	300	Dry	XG-02	C	H3B	A14	●	Special Order
120/277	Dual	HPS-200A-D-HP	CWA	245	2.15/0.93	28	300	Dry	XG-02	D	H3A	A14	●	Special Order
120/208/ 240/277	Quad	HPS-200A-Q-HP	CWA	245	2.15/1.25/1.05/0.93	28	300	Dry	XG-02	D	H3	A14	●	Special Order

Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

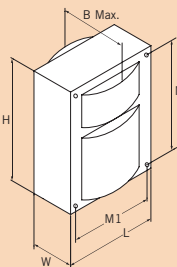
WIRING DIAGRAMS



HID
High Pressure Sodium

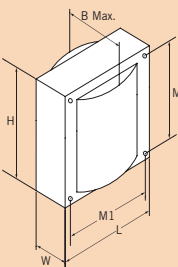
CASE STYLES

CASE A



CASE STYLE	M1	M2	LENGTH	WIDTH	HEIGHT	B MAX
A6	2.44"	3.50"	2.80"	1.02"	3.94"	1.02"
A9	2.44"	3.50"	2.80"	1.54"	3.94"	2.91"
A11	2.44"	3.50"	2.80"	1.99"	3.94"	3.35"
A13	2.44"	3.50"	2.80"	2.58"	3.94"	3.86"
A14	3.87"	4.38"	4.30"	1.20"	4.80"	2.72"

CASE R



CASE STYLE	M1	M2	LENGTH	WIDTH	HEIGHT	B MAX
R1	2.19"	1.79"	2.64"	0.61"	2.25"	1.58"
R2	2.19"	1.79"	2.64"	0.83"	2.25"	1.81"
R3	2.19"	1.79"	2.64"	1.30"	2.25"	2.25"
R4	2.19"	1.79"	2.64"	1.54"	2.25"	2.72"
R5	2.19"	1.79"	2.64"	2.09"	2.25"	3.35"

Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

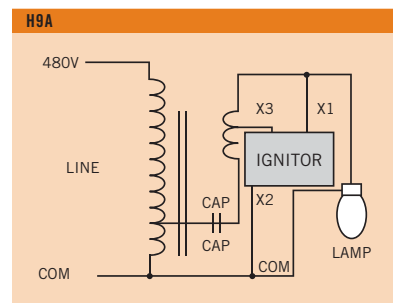
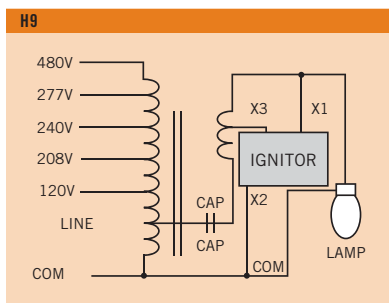
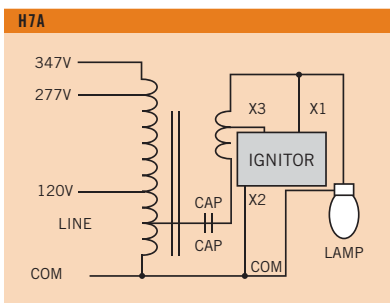
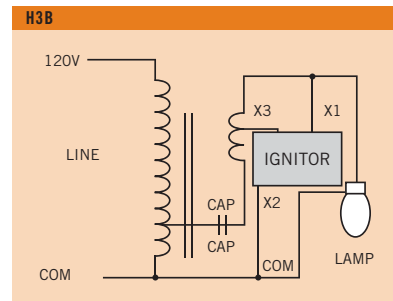
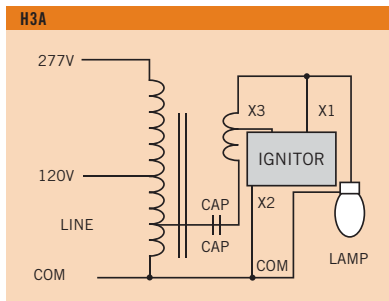
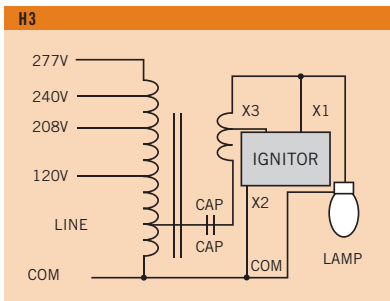


High Pressure Sodium

INPUT VOLTS	NO. OF TAPS	CATALOG NUMBER	CIRCUIT TYPE	INPUT WATTS	INPUT CURRENT	CAP. MFD	CAP. VOLTAGE	CAP. TYPE	IGNITOR	UL BENCH TOP RISE	WIRING DIAGRAM	CASE STYLE	APPROVALS	STATUS
														
(1) 250 Watt S50 High Pressure Sodium Lamp														
120	Single	HPS-250A-1-HP	CWA	290	2.50	35	280	Dry	XG-02	B	H3B	A2		Special Order
120/277	Dual	HPS-250A-D-HP	CWA	290	2.50/1.10	35	280	Dry	XG-02	B	H3A	A2		Special Order
120/277/347	Tri	HPS-250A-T3-HP	CWA	290	2.50/1.10/0.90	35	280	Dry	XG-02	A	H7A	A18		Special Order
120/208/240/277	Quad	HPS-250A-Q-HP	CWA	290	2.50/1.50/1.30/1.10	35	280	Dry	XG-02	B	H3	A2		Special Order
		HPS-250A-Q-CA HPS-250A-Q-KIT	CWA	290	2.53/1.50/1.30/1.10	35	280	Dry	XG-02	B	H3	A2		Quick Ship
120/208/240/277/480	5 Tap	HPS-250A-P-HP HPS-250A-P-KIT	CWA	290	2.50/1.50/1.30/1.10/0.70	35	280	Dry	XG-02	B	H9	A19		Quick Ship
(1) 400 Watt S51 High Pressure Sodium Lamp														
120	Single	HPS-400A-1-HP	CWA	465	4.00	55	300	Dry	XG-02	C	H3B	A3		Special Order
480	Single	HPS-400A-4-HP HPS-400A-4-KIT	CWA	465	1.10	55	300	Dry	XG-02	D	H9A	A22		Quick Ship
120/277	Dual	HPS-400A-D-HP	CWA	465	4.00/1.70	55	300	Dry	XG-02	C	H3A	A3		Special Order
120/277/347	Tri	HPS-400A-T3-HP	CWA	465	4.00/1.70/1.30	55	300	Dry	XG-02	E	H7A	A20		Special Order
120/208/240/277	Quad	HPS-400A-Q-HP HPS-400A-Q-KIT	CWA	465	4.00/2.40/2.10/1.70	55	300	Dry	XG-02	C	H3	A3		Quick Ship
120/208/240/277/480	5 Tap	HPS-400A-P-HP HPS-400A-P-KIT	CWA	465	4.00/2.40/2.10/1.70/1.10	55	300	Dry	XG-02	D	H9	A21		Quick Ship
(1) 600 Watt S106 High Pressure Sodium Lamp														
120/208/240/277	Quad	HPS-600A-Q-HP HPS-600A-Q-KIT	CWA	670	5.50/3.25/2.85/2.30	64	280	Oil	XG-02	E	H3	A23		Quick Ship
(1) 1000 Watt S52 High Pressure Sodium Lamp														
120	Single	HPS-1000A-1-HP	CWA	1100	9.50	26	525	Oil	XG-03	H	H3B	A4		Special Order
120/277	Dual	HPS-1000A-D-HP	CWA	1100	9.50/4.00	26	525	Oil	XG-03	H	H3A	A4		Special Order
120/277/347	Tri	HPS-1000A-T3-HP	CWA	1100	9.50/4.00/3.30	26	525	Oil	XG-03	E	H7A	A24		Special Order
120/208/240/277	Quad	HPS-1000A-Q-HP HPS-1000A-Q-KIT	CWA	1100	9.50/5.20/4.50/4.00	26	525	Oil	XG-03	H	H3	A4		Quick Ship
120/208/240/277/480	5 Tap	HPS-1000A-P-HP HPS-1000A-P-KIT	CWA	1100	9.50/5.20/4.50/4.00/2.30	26	525	Oil	XG-03	E	H9	A25		Quick Ship

Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

WIRING DIAGRAMS



High Pressure Sodium
HID

CASE STYLES

CASE A							
CASE STYLE	MOUNT. 1	MOUNT. 2	LENGTH	WIDTH	HEIGHT	B MAX.	
A2	3.87"	4.38"	4.30"	1.81"	4.80"	3.43"	
A3	3.87"	4.38"	4.30"	2.31"	4.80"	4.14"	
A4	3.87"	5.37"	4.30"	3.74"	6.02"	5.99"	
A18	3.87"	4.38"	4.30"	1.97"	4.80"	3.78"	
A19	3.87"	4.38"	4.30"	1.97"	4.80"	4.14"	
A20	3.87"	4.38"	4.30"	2.35"	4.80"	4.14"	
A21	3.87"	4.38"	4.30"	2.35"	4.80"	4.25"	
A22	3.87"	4.38"	4.30"	2.62"	4.80"	4.25"	
A23	3.87"	5.37"	4.30"	3.15"	6.02"	5.44"	
A24	3.87"	5.37"	4.30"	3.90"	6.02"	6.03"	
A25	3.87"	5.37"	4.30"	3.74"	6.02"	6.18"	

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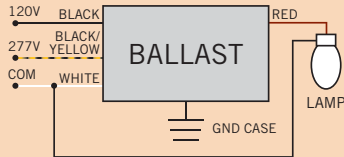


F-Can

INPUT VOLTS	NO. OF TAPS	CATALOG NUMBER	CIRCUIT TYPE	INPUT WATTS	INPUT CURRENT	CAP. MFD	CAP. VOLTAGE	UL BENCH TOP RISE	WIRING DIAGRAM	CASE STYLE	APPROVALS	STATUS
												
Metal Halide F-Can												
120/277	Dual	MH-70X-D-FCAN	HX-HPF	82/79	0.70/0.30	8	280	A	FC1-1	D11		Quick Ship
120/277	Dual	MH-100X-D-FCAN	HX-HPF	122	1.07/0.47	12	280	A	FC1-1	D11		Quick Ship
120/277	Dual	MH-150X-D-FCAN	HX-HPF	184/186	1.61/0.71	16	280	A	FC1-1	D11		Quick Ship
120/277	Dual	MH-175A-D-FCAN	CWA	202/205	1.85/0.82	10	400	A	FC1-1	D11		Quick Ship

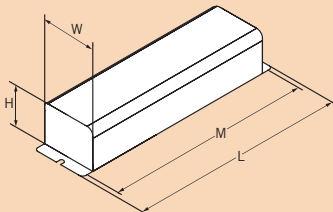
WIRING DIAGRAMS

FC1-1



CASE STYLES

CASE D



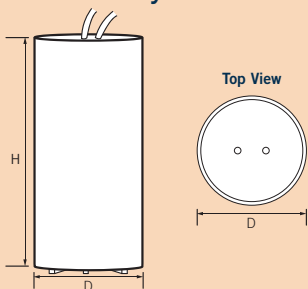
CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
D11	11.40"	11.80"	3.23"	2.75"

Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

CATALOG NUMBER	LAMP TYPE	WATTAGE	MICROFARAD	VOLTAGE	TYPE	CASE STYLE	APPROVALS	STATUS
								
Capacitors								
CAP-70HPSQ	High Pressure Sodium	70	7	280	Dry Film	CAP1-8		Quick Ship
CAP-70MHQ	Metal Halide	70	8	280	Dry Film	CAP1-2		Quick Ship
CAP-100HPSQ	High Pressure Sodium	100	10	280	Dry Film	CAP1-2		Quick Ship
CAP-100MHQ	Metal Halide	100	12	280	Dry Film	CAP1-3		Quick Ship
CAP-150HPSQ	High Pressure Sodium	150	14	280	Dry Film	CAP1-1		Quick Ship
CAP-150MHQ	Metal Halide	150	16	280	Dry Film	CAP1-1		Quick Ship
CAP-175MHQ	Metal Halide	175	10	400	Dry Film	CAP1-1		Quick Ship
CAP-175MPS	Pulse Start Metal Halide	175	11	400	Dry Film	CAP1-1		Quick Ship
CAP-200MPS	Pulse Start Metal Halide	200	15	330	Dry Film	CAP1-6		Quick Ship
CAP-250HPSQ	High Pressure Sodium	250	35	240	Dry Film	CAP1-10		Quick Ship
CAP-250MHQ	Metal Halide	250	15	400	Dry Film	CAP1-6		Quick Ship
CAP-250MPS	Pulse Start Metal Halide	250	17	400	Dry Film	CAP1-7		Quick Ship
CAP-320MHQ	Metal Halide	320	21	345	Dry Film	CAP1-7		Quick Ship
CAP-350MPS	Pulse Start Metal Halide	350	22.5	345	Dry Film	CAP1-7		Quick Ship
CAP-400HPSQ	High Pressure Sodium	400	55	300	Dry Film	CAP1-5		Quick Ship
CAP-400MHQ	Metal Halide	400	24	400	Dry Film	CAP1-4		Quick Ship
CAP-400MPS	Pulse Start Metal Halide	400	26	330	Dry Film	CAP1-7		Quick Ship
CAP-450MPS	Pulse Start Metal Halide	450	26.5	400	Dry Film	CAP1-9		Quick Ship
CAP-750MPS	Pulse Start Metal Halide	750	28	400	Oil Filled	CAP2-2		Quick Ship
CAP-1000HPSQ	High Pressure Sodium	1000	26	525	Oil Filled	CAP2-1		Quick Ship
CAP-1000MHQ	Metal Halide	1000	24	480	Oil Filled	CAP2-1		Quick Ship
CAP-1000MPS	Pulse Start Metal Halide	1000	24	480	Oil Filled	CAP2-1		Quick Ship
CAP-1500MHQ	Metal Halide	1500	32	525	Oil Filled	CAP2-2		Quick Ship

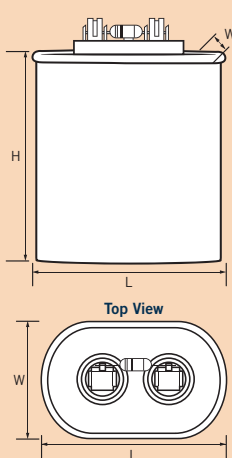
CASE STYLES

CASE CAP1: Dry Film



CASE STYLE	MOUNTING	DIAMETER	HEIGHT
CAP1-1	N/A	1.38"	3.07"
CAP1-2	N/A	1.18"	2.68"
CAP1-3	N/A	1.18"	3.07"
CAP1-4	N/A	1.77"	3.15"
CAP1-5	N/A	1.77"	5.24"
CAP1-6	N/A	1.57"	2.68"
CAP1-7	N/A	1.57"	3.66"
CAP1-8	N/A	1.02"	2.68"
CAP1-9	N/A	1.57"	5.24"
CAP1-10	N/A	1.57"	3.07"

CASE CAP2: Oil Filled



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
CAP2-1	N/A	2.91"	1.91"	3.91"
CAP2-2	N/A	3.66"	1.97"	3.91"

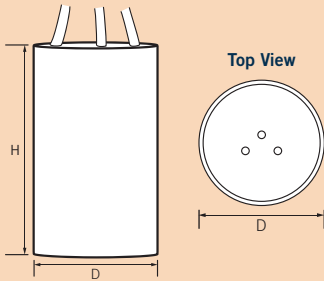
Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

CATALOG NUMBER	LAMP TYPE	WATTAGE	CIRCUIT TYPE	CASE STYLE	APPROVALS	STATUS
						
Ignitors						
IGN-XG-01	High Pressure Sodium	35-150	Reactor, HX	IGN1		Quick Ship
IGN-XG-02	High Pressure Sodium	250-400	CWA	IGN1		Quick Ship
IGN-XG-03	High Pressure Sodium	1000	CWA	IGN1		Quick Ship
IGN-XG-04	Metal Halide	50-150	HX	IGN1		Quick Ship

CASE STYLES

HID
Accessories

CASE IGN

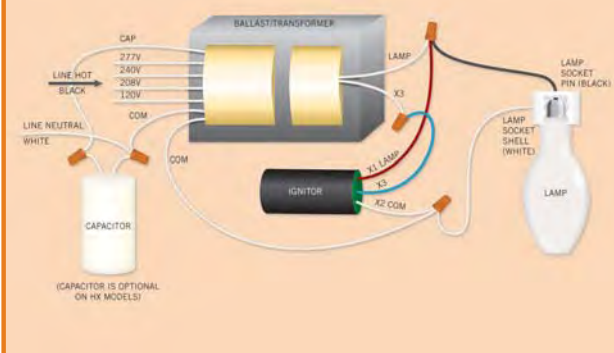
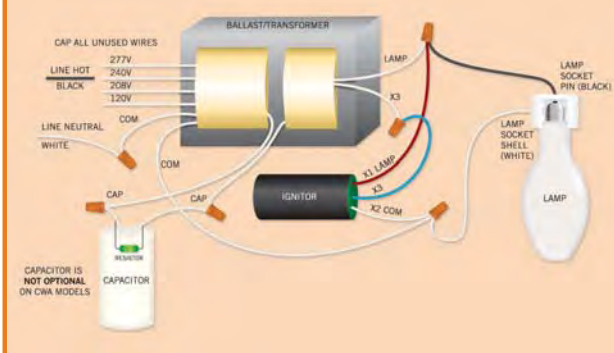
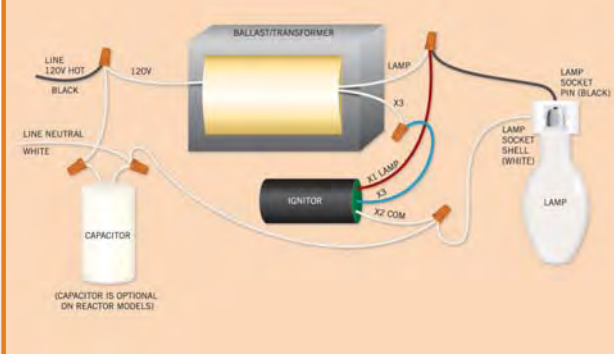
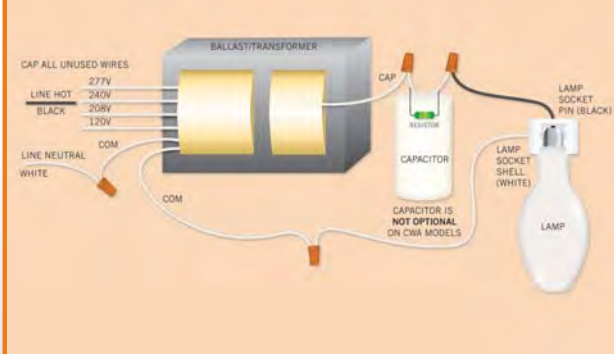


CASE STYLE	MOUNTING	DIAMETER	HEIGHT
IGN1	N/A	1.38"	2.33"

Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

Know which wiring schematic to use:

1. Identify the circuit type of the HID ballast by referring to the Circuit Type column in the charts in this section.
2. Determine if application requires a capacitor and/or ignitor by referring to the Cap. Type and Ignitor columns in the charts in this section.
3. Select the appropriate wiring schematic below.

Circuit: HX**Circuit: CWA (WITH IGNITOR)****Circuit: REACTOR****Circuit: CWA (WITHOUT IGNITOR)**

Colors shown above represent the most common configuration. However, depending on the application and local code, slight differences may exist. Contact Keystone with any installation questions.

		HID KIT CONTENTS				
		BALLAST	CAPACITOR	IGNITOR	MOUNTING BRACKETS	MOUNTING HARDWARE
CATALOG NUMBER	MPS-175A-Q-KIT	✓	✓	✓	✓	✓
	MPS-175A-P-KIT	✓	✓	✓	✓	✓
	MPS-200A-Q-KIT	✓	✓	✓	✓	✓
	MPS-250A-Q-KIT	✓	✓	✓	✓	✓
	MPS-250A-P-KIT	✓	✓	✓	✓	✓
	MPS-320A-Q-KIT	✓	✓	✓	✓	✓
	MPS-320A-P-KIT	✓	✓	✓	✓	✓
	MPS-350A-Q-KIT	✓	✓	✓	✓	✓
	MPS-350A-P-KIT	✓	✓	✓	✓	✓
	MPS-400A-4-KIT	✓	✓	✓	✓	✓
	MPS-400A-Q-KIT	✓	✓	✓	✓	✓
	MPS-400A-P-KIT	✓	✓	✓	✓	✓
	MPS-450A-Q-KIT	✓	✓	✓	✓	✓
	MPS-450A-P-KIT	✓	✓	✓	✓	✓
	MH-50X-Q-KIT	✓	✓	✓	✓	✓
	MH-50X-D-KIT	✓	✓	✓	✓	✓
	MH-70X-Q-KIT	✓	✓	✓	✓	✓
	MH-100X-Q-KIT	✓	✓	✓	✓	✓
	MH-150X-Q-KIT	✓	✓	✓	✓	✓
	MH-175A-Q-KIT	✓	✓	N/A	✓	✓
	MH-175A-P-KIT	✓	✓	N/A	✓	✓
	MH-250A-4-KIT	✓	✓	N/A	✓	✓
	MH-250A-Q-KIT	✓	✓	N/A	✓	✓
	MH-250A-P-KIT	✓	✓	N/A	✓	✓
	MH-400A-4-KIT	✓	✓	N/A	✓	✓
	MH-400A-Q-KIT	✓	✓	N/A	✓	✓
	MH-400A-P-KIT	✓	✓	N/A	✓	✓
	MH-1000A-4-KIT	✓	✓	N/A	✓	✓
	MH-1000A-Q-KIT	✓	✓	N/A	✓	✓
	MH-1000A-P-KIT	✓	✓	N/A	✓	✓
	MH-1500A-Q-KIT	✓	✓	N/A	✓	✓
	MH-1500A-P-KIT	✓	✓	N/A	✓	✓
	HPS-35R-1-KIT	✓	✓	✓	✓	✓
	HPS-50R-1-KIT	✓	✓	✓	✓	✓
	HPS-70R-1-KIT	✓	N/A	✓	✓	✓
	HPS-70X-Q-KIT	✓	✓	✓	✓	✓
	HPS-100R-1-KIT	✓	N/A	✓	✓	✓
	HPS-100X-Q-KIT	✓	✓	✓	✓	✓
	HPS-150R-1-KIT	✓	N/A	✓	✓	✓
	HPS-150X-Q-KIT	✓	✓	✓	✓	✓
	HPS-250A-Q-KIT	✓	✓	✓	✓	✓
	HPS-250A-P-KIT	✓	✓	✓	✓	✓
	HPS-250A-P-KIT	✓	✓	✓	✓	✓
	HPS-400A-4-KIT	✓	✓	✓	✓	✓
	HPS-400A-Q-KIT	✓	✓	✓	✓	✓
	HPS-400A-P-KIT	✓	✓	✓	✓	✓
	HPS-1000A-Q-KIT	✓	✓	✓	✓	✓
	HPS-1000A-P-KIT	✓	✓	✓	✓	✓

Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

SIGN BALLASTS

CONTENTS

4-2 | Magnetic
Sign Ballasts

4-4 | Electronic
Sign Ballasts



Keystone's line of sign ballasts makes commercial sign maintenance simple. With only six magnetic and four electronic ballasts that cover virtually all common plastic sign configurations, you're sure to have the right ballast for the job.

All Keystone magnetic and electronic sign ballasts are designed to operate at a minimum starting temperature of -20°F, which is ideal for use in cold outdoor sign applications. With Keystone's quality and dependability, you can count on your installation to last, maintenance-free, for years to come.



RoHS Compliant: All Keystone electronic sign ballasts produced after January 1, 2010 are RoHS compliant, meaning they are made from environmentally-friendly components.

ELECTRONIC SIGN BALLASTS

		Total Lamp Footage Permitted (in Feet)																													
Lamps Per Ballast		2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48						
	1-2	KTSB-E-0216-12-UV																													
	1-4											KTSB-E-0432-14-UV																			
	4-6																					KTSB-E-1040-14-UV									
																						KTSB-E-0848-46-UV									

MAGNETIC SIGN BALLASTS

		Total Lamp Footage Permitted (in Feet)																							
Lamps Per Ballast		2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
		KTSB-0412-12-1-TP										KTSB-0620-24-1-TP													
1-2																									
2-4																									
4-6																									
</																									



CATALOG NUMBER DESIGNATIONS

KTSB: Keystone Technologies Sign Ballast
TP: Thermally Protected
E: Electronic

UV: Universal Voltage
1: 120 Volt

KTSB-E-0216-12-UV

Keystone Technologies Sign Ballast | Electronic | Min. Lamp Footage | Max. Lamp Footage | Min. # of Lamps | Max. # of Lamps | Universal Voltage

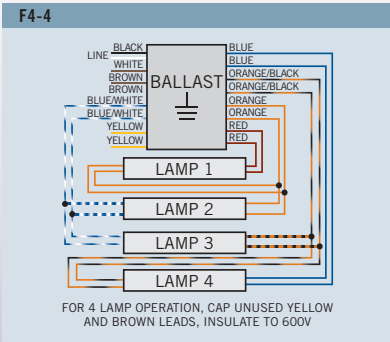
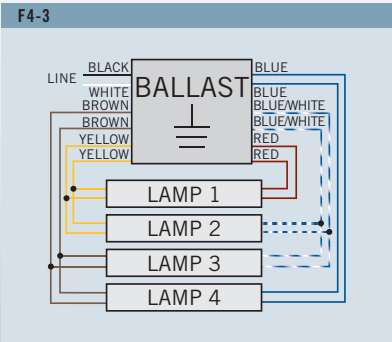
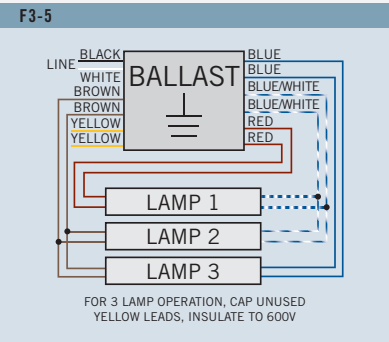
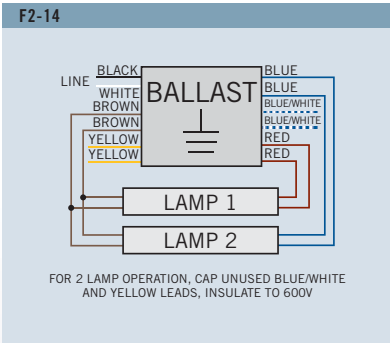
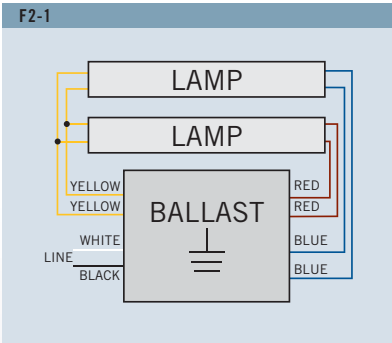
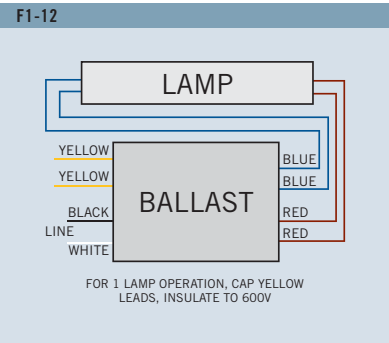


NO. OF LAMPS	LAMP FOOTAGE		INPUT VOLTS	CATALOG NUMBER	CYCLES (Hz)	MAX INPUT POWER (WATTS)	MAX INPUT CURRENT (AMPS)	OPEN CIRCUIT VOLTAGE	MIN. START TEMP (°F)	WIRING DIAGRAM	CASE STYLE	WARRANTY	APPROVALS	STATUS
	MIN	MAX												
1-2	4	12	120	KTSB-0412-12-1-TP	60	175	1.48	480	-20	F1-12, F2-1	D8	3	●	Quick Ship
2-4	6	20	120	KTSB-0620-24-1-TP	60	304	2.56	600	-20	F2-14, F3-5, F4-3	D8	3	●	Quick Ship
	12	24	120	KTSB-1224-24-1-TP	60	312	2.70	785	-20	F2-14, F3-5, F4-3	D9	3	●	Quick Ship
	20	40	120	KTSB-2040-24-1-TP	60	472	4.00	720	-20	F2-14, F3-5, F4-3	D10	3	●	Quick Ship
4-6	12	40	120	KTSB-1240-46-1-TP	60	462	3.90	720	-20	F4-4, F5-1, F6-1	D10	3	●	Quick Ship
	24	48	120	KTSB-2448-46-1-TP	60	530	4.50	720	-20	F4-4, F5-1, F6-1	D10	3	●	Quick Ship

Magnetic Sign Ballasts for use with T12HO lamps only.
T12HO lamps longer than 8 feet may not be used except with KTSB-2040-24-1-TP.

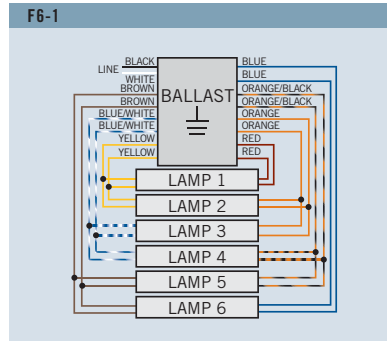
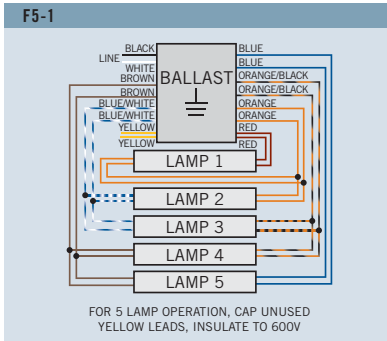
WIRING DIAGRAMS

SIGN BALLASTS
Magnetic

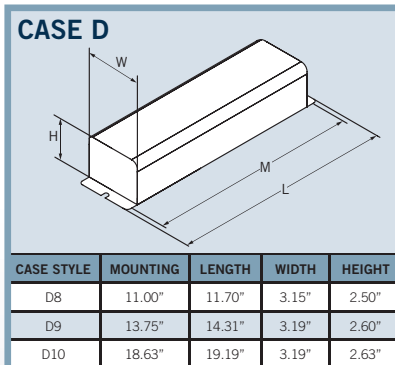


Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

WIRING DIAGRAMS (continued)



CASE STYLES

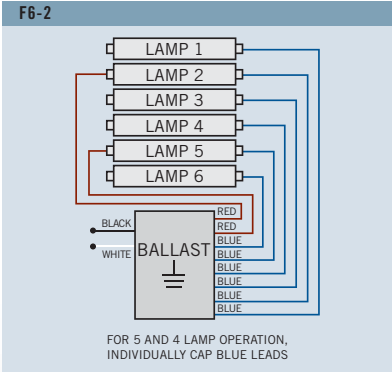
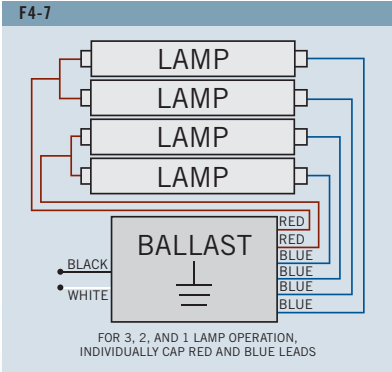
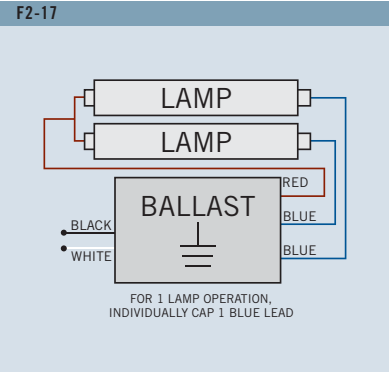


Electronic Sign Ballasts



NO. OF LAMPS	LAMP FOOTAGE		INPUT VOLTS	CATALOG NUMBER	CYCLES (Hz)	MAX INPUT POWER (WATTS)	MAX INPUT CURRENT (AMPS)	OPEN CIRCUIT VOLTS	MIN. START TEMP (°F)	WIRING DIAGRAM	CASE STYLE	WARRANTY	APPROVALS	STATUS
	MIN	MAX											 LISTED	
T8HO														
1-2	4	12	120-277	KTSB-E-0216-12-UV	50/60	122	1.10	800	-20	F2-17	L14	3	●	Quick Ship
1-4	4	24	120-277	KTSB-E-0432-14-UV	50/60	244	2.20	800	-20	F4-7	L15	3	●	Quick Ship
	8	32	120-277	KTSB-E-1040-14-UV	50/60	330	280	1000	-20	F4-7	L16	3	●	Quick Ship
4-6	16	36	120-277	KTSB-E-0848-46-UV	50/60	370	3.20	860	-20	F6-2	L16	3	●	Quick Ship
T12HO														
1-2	2	16	120-277	KTSB-E-0216-12-UV	50/60	132	1.20	800	-20	F2-17	L14	3	●	Quick Ship
1-4	4	32	120-277	KTSB-E-0432-14-UV	50/60	267	2.40	800	-20	F4-7	L15	3	●	Quick Ship
	10	40	120-277	KTSB-E-1040-14-UV	50/60	352	3.00	1000	-20	F4-7	L16	3	●	Quick Ship
4-6	8	48	120-277	KTSB-E-0848-46-UV	50/60	410	3.50	860	-20	F6-2	L16	3	●	Quick Ship

WIRING DIAGRAMS



CASE STYLES

CASE L

CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
L14	8.90"	9.50"	2.36"	1.70"
L15	11.00"	11.65"	3.15"	1.85"
L16	13.75"	14.45"	3.23"	2.20"

Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

CONTENTS

5-2 | Low Voltage Transformers



Keystone's portfolio of durable low-voltage halogen and xenon transformers are ideally suited for track, task, and recessed lighting applications. Chosen by the leading designers and architectural fixture manufacturers for reliability and performance, all Keystone low voltage transformers are 100% factory tested to ensure superior performance in the field.

Available in a variety of common and specialty configurations, we are sure to have the right transformer for your low voltage lighting system.



RoHS Compliant: All Keystone transformers produced after January 1, 2010 are RoHS compliant, meaning they are made from environmentally-friendly components.



CATALOG NUMBER DESIGNATIONS

KTET: Keystone Technologies Electronic Transformer

1: 120V Input

2: 277V Input

SCP: Short Circuit Protection

DIM: Dimmable

RJS: Rear Junction Mount, with Studs

AL: Aluminum Case

WC: With Cord

F: Fuse

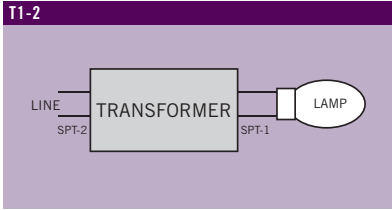
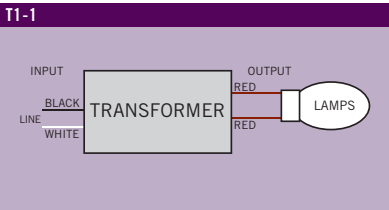
TRANSFORMERS

Low Voltage Transformers



LAMP TYPE	MAX INPUT POWER	INPUT VOLTS	CATALOG NUMBER	INPUT CURRENT (AMPS)	OUTPUT VOLTS	DIMMABLE	WIRING DIAGRAM	CASE STYLE	REMARKS	APPROVALS	STATUS
12V Halogen											
60W	120	KTET-60-1-WC-F	0.50	11	No	T1-2	O1	With Cord and Fuse			Quick Ship
		KTET-60-1-F-WC-EMI-SCP	0.50	11	No	T1-2	O1	With Cord and Fuse, FCC Class B, Short Circuit Protected			Special Order
		KTET-60-1-SCP-DIM-AL	0.50	12	Yes	T1-1	F4	Class 2, Short Circuit Protected, Aluminum Case			Quick Ship
75W	120	KTET-75-1-SCP-EMI	0.63	11	No	T1-1	F3	Short Circuit Protected, EMI Filter			Active
		KTET-75-1-SCP-DIM-RJS	0.62	11	Yes	T1-1	Z1	With Rear Mount Studs and Leads for J-Box Application			Quick Ship
		KTET-75-1-SCP-DIM-HV-AL	0.59	12	Yes	T1-1	F4	With Aluminum Case, Side Leads			Quick Ship
		KTET-75-1-SCP-DIM-AL	0.63	11	Yes	T1-1	F4	Short Circuit Protected, Aluminum Case			Special Order
	277	KTET-75-2-SCP-RJS	0.26	11	No	T1-1	Z1	With Rear Mount Studs and Leads for J-Box Application			Quick Ship
150W	120	KTET-150-1-SCP-DIM	1.27	11.4	Yes	T1-1	AB1	Short Circuit Protected, Aluminum Case			Quick Ship

WIRING DIAGRAMS



CASE STYLES

CASE AB

CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
AB1	3.62"	4.11"	1.38"	1.10"

CASE F

CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
F3	N/A	2.68"	1.30"	0.79"
F4	N/A	2.09"	1.30"	0.79"

CASE O

CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
O1	2.80"	3.15"	1.50"	1.06"

CASE Z

CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
Z1	2.00"	2.48"	1.38"	0.83"

Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

CONTENTS

6-2 | Constant Current

6-4 | Constant Voltage



Light Emitting Diodes (LEDs) are the future of lighting and Keystone's LED drivers will take you there today! Keystone's state-of-the-art LED drivers are being used today in tens of thousands of quality installations. From low to high wattage, constant current and constant voltage, fixed output and dimming, as well as many other available features, Keystone has the drivers available to meet your application requirements.

Keystone's LED drivers are available in several form factors including on-board, off-line, and off-line remote to meet all LED fixture power source requirements.

Keystone also offers an extensive array of custom drivers. Contact Keystone for any special driver requirements.



RoHS Compliant: All Keystone LED drivers produced after January 1, 2010 are RoHS compliant, meaning they are made from environmentally-friendly components.



CATALOG NUMBER DESIGNATIONS

KTLD: Keystone Technologies LED Driver

1: 120V Input

12V: 12V Constant Voltage

24V: 24V Constant Voltage

A35: 350 mA Constant Current

FDIM: Front (Forward) Phase Dimming

LDIM: Local Dimming

SC: Short Case

SQ: Square Case (for J-Box Mount)



Constant Current

All Constant Current LED Drivers feature:

- FCC Class B rating for EMI
- Class 2 Output
- 120V Input Power

ASSUMPTIONS: • 4.0V max. for every LED (both 1W & 3W) • 2.5V min. for every LED when dimmed (both 1W & 3W)

LAMP TYPE			RATED OUTPUT CURRENT (mA) ¹	POWER FACTOR (AT FULL LOAD)	OUTPUT POWER (W) ¹		OUTPUT VOLTS (Vdc)		APPROX NO. OF LEDS ²		APPROVALS					
LAMP SERIES	CATALOG NUMBER				MIN*	MAX	MIN	MAX	MIN	MAX			WIRING DIAGRAM	CASE STYLE	COMMON APPLICATIONS	STATUS
Constant Current																
6W Series	KTLD-6-1-0A38-FDIM		350	>0.7	0.2	6	5	16	2	4	UL 8750 (Damp)	Yes	T2-1	S1	Undercabinet with Plug-In/ Linking/Direct Wire	Special Order
7W Series	KTLD-7-1-0A38-LDIM		380	>0.7	0.2	7	5	20	2	5	UL 8750 Pending (Damp)	Yes	T2-1	F2		Special Order
	KTLD-7-1-0A70-LDIM		700	>0.7	0.2	7	2.5	10	1	2	UL 8750 Pending (Damp)	Yes	T2-1	F2		Special Order
10W Series	KTLD-10-1-0A35		350	>0.5	2.5	10	7.5	30	2	7	UL 1310 (Dry)	N/A	T2-1	F1		Special Order
	KTLD-10-1-0A35-LDIM		350	>0.7	0.5	10	13	27	5	7	UL 8750 (Damp)	Yes	T2-1	F2		Special Order
12W Series	KTLD-12-1-0A38-FDIM		350	>0.7	0.4	12	10	32	4	8	UL 8750 (Damp)	Yes	T2-1	S1		Special Order
	KTLD-12-1-0A70-LDIM		700	>0.7	0.3	12	7.5	16	3	4	UL 8750 Pending (Damp)	Yes	T2-1	F2		Special Order
	KTLD-12-1-0A70-FDIM		700	>0.7	0.2	12	5	16	2	5	UL 8750 Pending (Damp)	Yes	T2-1	S1		Special Order
	KTLD-12-1-0A70SQ		700	>0.9	2	12	5.6	16	1	4	UL 8750 Pending (Damp)	Yes	T2-1	AC1	3"- 4" Recessed Downlights	Special Order
	KTLD-12-1-0A70SQ-FDIM		700	>0.9	0.2	12	5	16	2	4	UL 8750 Pending (Damp)	Yes	T2-1	AC1		Special Order
24W Series	KTLD-24-1-0A70SQ		700	>0.9	7	24	11.2	32	4	8	UL 8750 Pending (Damp)	Yes	T2-1	AC2	5"- 6" Recessed Downlights	Special Order
	KTLD-24-1-0A70SQ-FDIM		700	>0.9	0.7	24	10	32	4	8	UL 8750 Pending (Damp)	Yes	T2-1	AC2		Special Order

* Assuming the LED Current is 10% of Maximum

¹ **Output Power (Watts):** Equal to output current (mA) multiplied by the output voltage of the individual LED.

² **Approximate Number of LEDs:** Dependant on the specifications of the individual LED.

³ **Energy Star Compliant:** Maybe be used in Energy Star SSL v. 1.1 lighting fixtures.

All LED drivers may be modified to accomodate specific requirements. Contact Keystone today to discuss custom and semi-custom LED driver solutions.

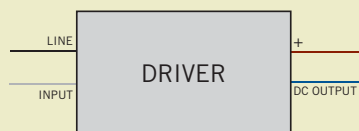
Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

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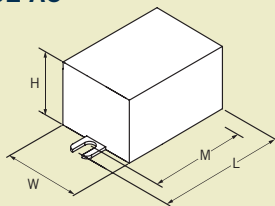
WIRING DIAGRAMS

T2-1



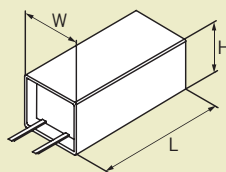
CASE STYLES

CASE AC



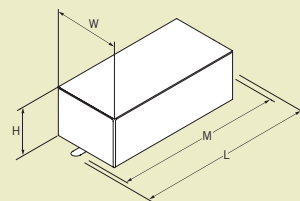
CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
AC1	N/A	1.125"	2.00"	2.00"
AC2	N/A	1.125"	2.75"	2.75"

CASE F



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
F1	N/A	2.68"	1.30"	0.79"
F2	N/A	3.15"	1.30"	0.79"

CASE S



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
S1		3.12"	3.45"	1.21"



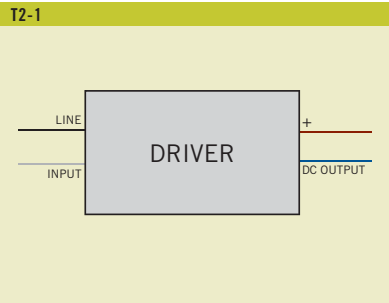
Constant Voltage

All Constant Voltage LED Drivers feature: • FCC Class B rating for EMI • Class 2 Output

LAMP TYPE	CATALOG NUMBER	RATED OUTPUT VOLTAGE	MAX POWER ¹	CURRENT (mA)		INPUT VOLTS	POWER FACTOR (AT MAX LOAD)	APPROVALS	WIRING DIAGRAM	CASE STYLE	COMMON APPLICATIONS	STATUS
LAMP SERIES				MIN	MAX ²							
Constant Voltage												
10W Series	KTLD-10-1-24V	24V	10W	0	420	120	>0.5	UL 1310 (Dry)	T2-1	W1	Low Wattage LED Strip or Puck	Special Order
60W Series	KTLD-60-1-24V-SC	24V	60W	0	2500	120	>0.9	UL 8750 (Damp)	T2-1	W2	High Power Low Voltage UC System or High Footage, Low Wattage LED Strip or Flexible LED Stick-On Tape	Special Order
	KTLD-60-UV-24V	24V	60W	0	2500	120-277	>0.9	UL 8750 Pending (Damp)	T2-1	L6		Special Order
	KTLD-60-UV-24V-SC	24V	60W	0	2500	120-277	>0.9	UL 8750 Pending (Damp)	T2-1	W2		Special Order
	KTLD-60-1-12V	12V	60W	0	5000	120	>0.9	UL 8750 (Damp)	T2-1	L6		Special Order
	KTLD-60-1-24V	24V	60W	0	2500	120	>0.9	UL 8750 (Damp)	T2-1	L6		Special Order
80W Series	KTLD-80-1-24V	24V	80W	0	3300	120	>0.9	UL 8750 (Damp)	T2-1	L6		Special Order

¹ Max Power: Equal to the rated output voltage multiplied by the maximum current.
² Max Current: Equal to output current (W) divided by the output voltage of the individual LED.

WIRING DIAGRAMS



CASE STYLES

CASE L

CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
L6	8.90"	9.50"	1.38"	1.18"

CASE W*

CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
W1	4.63"	5.00"	2.40"	1.00"
W2	4.63"	5.00"	3.00"	1.38"

* Available with and without studs.

All LED drivers may be modified to accomodate specific requirements. Contact Keystone today to discuss custom and semi-custom LED driver solutions.

Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

EMERGENCY BALLASTS

CONTENTS

7-2 | Emergency Ballasts



Emergency situations require superior dependability. When the power fails, trust only Keystone's emergency ballasts to keep the area safely lit. Keystone's emergency ballasts allow your jobsite to stay ahead of building code requirements, while letting you rest assured that the lights won't go out. Count on Keystone when it matters most.

Each Keystone Emergency Ballast comes packaged with a test switch that includes an LED indicator light for simplified use in factory or retrofit installations.



CATALOG NUMBER DESIGNATIONS

KT: Keystone Technologies

EMRG: Emergency Ballast

500: 500 Lumens Light Output

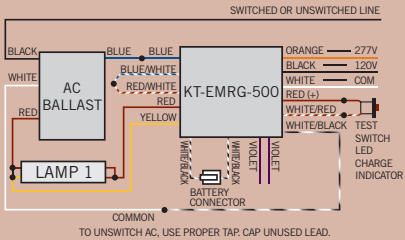
EMERGENCY BALLASTS

Emergency Ballasts

NO. OF LAMPS IN FIXTURE	CATALOG NUMBER	INPUT VOLTS	LIGHT OUTPUT	ILLUMINATION TIME	AC INPUT CURRENT	AC INPUT POWER	LAMP TYPE	BATTERY	WIRING DIAGRAM	CASE STYLE	APPROVALS	STATUS
											 LISTED	
1-4	KT-EMRG-500	120-277V, 60 Hz	500 Lumens	90 Minutes	260mA @ 120V 250mA @ 277V	2.30W @ 120V 2.25W @ 277V	2'-4', Single & Bi-Pin, T8 & T12	Ni-Cad	EB1-1, EB1-2, EB2-1, EB2-2, EB2-3, EB3-1, EB3-2, EB4-1	D14		Quick Ship

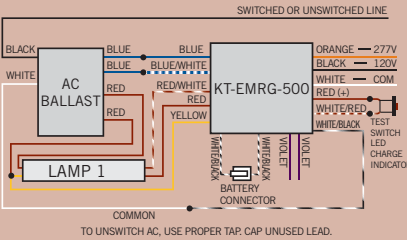
WIRING DIAGRAMS

EB1-1 (One Lamp Instant Start Ballast)



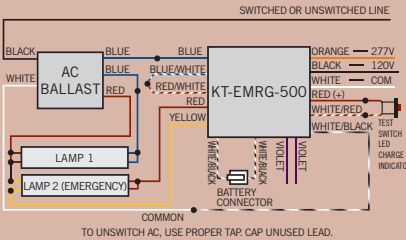
TO UNSWITCH AC, USE PROPER TAP. CAP UNUSED LEAD.

EB1-2 (One Lamp Rapid Start Ballast)



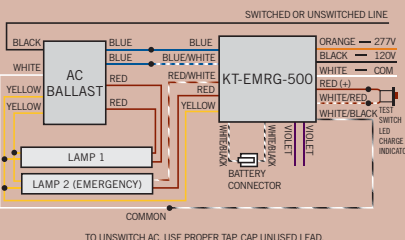
TO UNSWITCH AC, USE PROPER TAP. CAP UNUSED LEAD.

EB2-1 (Two Lamp Instant Start Ballast)



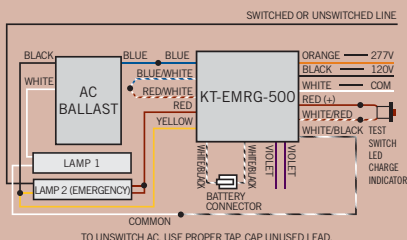
TO UNSWITCH AC, USE PROPER TAP. CAP UNUSED LEAD.

EB2-2 (Two Lamp Rapid Start Ballast)



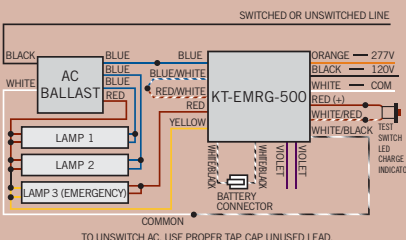
TO UNSWITCH AC, USE PROPER TAP. CAP UNUSED LEAD.

EB2-3 (Two Lamp Instant Start Ballast)



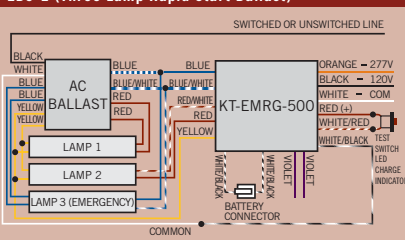
TO UNSWITCH AC, USE PROPER TAP. CAP UNUSED LEAD.

EB3-1 (Three Lamp Instant Start Ballast)



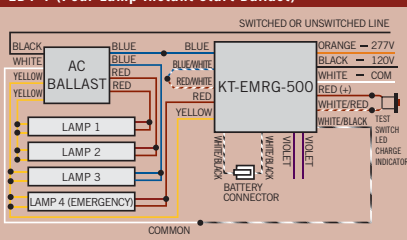
TO UNSWITCH AC, USE PROPER TAP. CAP UNUSED LEAD.

EB3-2 (Three Lamp Rapid Start Ballast)



TO UNSWITCH AC, USE PROPER TAP. CAP UNUSED LEAD.

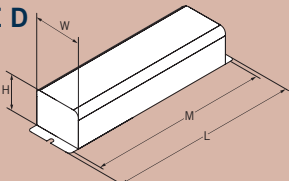
EB4-1 (Four Lamp Instant Start Ballast)



TO UNSWITCH AC, USE PROPER TAP. CAP UNUSED LEAD.

CASE STYLES

CASE D



CASE STYLE	MOUNTING	LENGTH	WIDTH	HEIGHT
D14	8.81"	9.69"	2.38"	1.50"

Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

CONTENTS

8-2 | Cross Reference Guide

8-5 | Obsolete Product Guide

8-5 | Date Code

8-6 | Glossary

8-8 | Ordering Information

8-8 | Custom Orders

8-9 | Index

8-12 | Warranty



EXPLANATION OF APPROVALS

Items that meet the following ratings are noted throughout this catalog.



Circle E - Branding on a ballast which designates that a ballast meets or exceeds the requirements of the Energy Independence and Security Act of 2009.



Energy Star® - Ballasts with this designation may be used in Energy Star rated lighting fixtures. Ballasts and fixtures with this label meet very high standards for energy-efficiency and quality.



NEMA Premium - Ballasts with this label are recognized as the most energy-efficient commercial grade T8 ballasts. These ballasts typically provide energy savings of 5-7% over standard commercial grade ballasts.



CEE Qualified - The Consortium for Energy Efficiency is the premiere agency for recognizing the most efficient electrical products. Lighting ballasts qualified by CEE are recognized as the most energy efficient products and automatically qualify for utility rebate programs throughout the United States. For more information visit www.cee1.org.



RoHS Compliant - Removal of Hazardous Substances. This means the ballast complies with environmentally-friendly standards set for acceptable levels of cadmium, hexavalent chromium, lead, PBB, PBDE, and mercury.



RU - UL Recognized Component. This mark indicates that this product meets UL standards to be installed into another device, system, or product.



UL - UL Listed Product. This mark indicates the product meets the safety standards set forth by Underwriters Laboratories, Inc. All Keystone products meet the highest level of UL approval.

CROSS REFERENCE GUIDE

ELECTRONIC

KEYSTONE PART NUMBER	DESCRIPTION	ADVANCE PART NUMBER	ULT/MAGNETEK PART NUMBER	GE PART NUMBER	SYLVANIA PART NUMBER
T8 ELECTRONIC FLUORESCENT					
KTEB-232LBF-1-TP-PIC-EV	1 or 2 Lite, 4', T8 Electronic, 120V	REL-2P32-SC	B232I120RH-A	GE-232-120-N	N/A
KTEB-432LBF-1-TP-PIC	4 Lite, 4', T8 Electronic, 120V	REL-4P32-SC	B432I120RH-A	GE-432-120-N	N/A
KTEB-232LBF-UV-TP-PIC-SL	1 or 2 Lite, 4', T8 Electronic, MultiVolt (120-277V)	ICN-2P32-N	B232IUNVHP-B	GE-232-MV-N	QTP2x32T8/UNV ISN-SC
KTEB-332LBF-UV-TP-PIC	3 Lite, 4', T8 Electronic, MultiVolt (120-277V)	ICN-3P32-SC	B332IUNVHP-A	GE-332-MV-N	QTP3x32T8/UNV ISN-SC
KTEB-432LBF-UV-TP-PIC	4 Lite, 4', T8 Electronic, MultiVolt (120-277V)	ICN-4P32-SC	B432IUNVHP-A	GE-432-MV-N	QTP4x32T8/UNV ISN-SC
KTEB-132-UV-IS-N-P	1 Lite, 4', T8 Electronic, MultiVolt (120-277V), NEMA PREMIUM, Standard Light Output	IOPA-1P32-SC	B132IUNVHE-A	GE-132-MAX-N/Ultra	QHE 1x32T8/UNV ISN-SC
KTEB-132-UV-IS-L-P	1 Lite, 4', T8 Electronic, MultiVolt (120-277V), NEMA PREMIUM, Reduced Light Output	IOPA-1P32-LW-SC	B132IUNVEL-A	GE-132-MAX-L/Ultra	QHE 1x32T8/UNV ISL-SC
KTEB-132-UV-IS-H-P	1 Lite, 4', T8 Electronic, MultiVolt (120-277V), NEMA PREMIUM, High Light Output	IOPA-1P32-HL-SC	N/A	GE-232-MAX-H/Ultra	QHE 1x32T8/UNV ISH-SC
KTEB-232-UV-IS-N-P	2 Lite, 4', T8 Electronic, MultiVolt (120-277V), NEMA PREMIUM, Standard Light Output	IOPA-2P32-SC	B232IUNVHE-A	GE-232-MAX-N/Ultra	QHE 2x32T8/UNV ISN-SC
KTEB-232-UV-IS-L-P	2 Lite, 4', T8 Electronic, MultiVolt (120-277V), NEMA PREMIUM, Reduced Light Output	IOPA-2P32-LW-SC	B232IUNVEL-A	GE-232-MAX-L/Ultra	QHE 2x32T8/UNV ISL-SC
KTEB-232-UV-IS-H-P	2 Lite, 4', T8 Electronic, MultiVolt (120-277V), NEMA PREMIUM, High Light Output	IOPA-2P32-HL-SC	B232IUNVHEH-A	GE-232-MAX-H/Ultra	QHE 2x32T8/UNV ISH-SC
KTEB-332-UV-IS-N-P	3 Lite, 4', T8 Electronic, MultiVolt (120-277V), NEMA PREMIUM, Standard Light Output	IOPA-3P32-SC	B332IUNVHE-A	GE-332-MAX-N/Ultra	QHE 3x32T8/UNV ISN-SC
KTEB-332-UV-IS-L-P	3 Lite, 4', T8 Electronic, MultiVolt (120-277V), NEMA PREMIUM, Reduced Light Output	IOPA-3P32-LW-SC	B332IUNVEL-A	GE-332-MAX-L/Ultra	QHE 3x32T8/UNV ISL-SC
KTEB-332-UV-IS-H-P	3 Lite, 4', T8 Electronic, MultiVolt (120-277V), NEMA PREMIUM, High Light Output	IOPA-3P32-HL-SC	B332IUNVHEH-A	GE-332-MAX-H/Ultra	QHE 3x32T8/UNV ISH-SC
KTEB-432-UV-IS-N-P	4 Lite, 4', T8 Electronic, MultiVolt (120-277V), NEMA PREMIUM, Standard Light Output	IOPA-4P32-SC	B432IUNVHE-A	GE-432-MAX-N/Ultra	QHE 4x32T8/UNV ISN-SC
KTEB-432-UV-IS-L-P	4 Lite, 4', T8 Electronic, MultiVolt (120-277V), NEMA PREMIUM, Reduced Light Output	IOPA-4P32-LW-SC	B432IUNVEL-A	GE-432-MAX-L/Ultra	QHE 4x32T8/UNV ISL-SC
KTEB-259-UV-TP-PIC	1 or 2 Lite, Slimline T8 Electronic, MultiVolt	REL-2P59-SC or VEL-2P59-SC	B259UNVHP-A	GE-259-MV-N	QTP 2x59T8/UNV ISN-SC
KTEB-286HO-UV-IS-N	1 or 2 Lite, T8HO, MultiVolt	ICN-2S86	B286I20RH or B268I277RH	GE-286-HO-MV-N	QHE 2x86T8HO/ UNV-PSN-HT
T5HO ELECTRONIC FLUORESCENT					
KTEB-224HO-UV-TP-PS	1 or 2 Lite F24T5HO, 120-277 Volt, 90°C, with Leads	ICN2S24	B224UNV-C	N/A	QTP2x39-24T5HO/UNVPSN
KTEB-239HO-UV-TP-PS	1 or 2 Lite F39T5HO, 120-277 Volt, 90°C, with Leads	ICN2S39	B239UNV-D	B239PUNV-DOG1C	QTP2x39-24T5HO/UNVPSN
KTEB-254HO-UV-TP-PS	1 or 2 Lite F54T5HO, 120-277 Volt, 90°C, with Leads	ICN2S54-90C	B254UNVE	GE254MVPS90	QTP2x54T5HO/UNVPSN
KTEB-454HO-UV-TP-PS	3 or 4 Lite F54T5HO, 120-277 Volt, 90°C, with Leads	ICN4S54-90C	B454UNVE	GE454MVPS90	QTP4x54T5HO/UNVPSN
T5 ELECTRONIC FLUORESCENT					
KTEB-228HE-UV-TP-PS	1 or 2 Lite F14T5, F21T5, F28T5, 120-277 Volt, 90°C, with Leads	ICN-2S28	B228PUNV	GE228MVPS	QTP2x28T5/UNV
KTEB-235HE-UV-TP-PS	1 or 2 Lite F14T5, F21T5, F28T5, F35T5, 120-277 Volt, 90°C, with Leads	ICN-2S28	N/A	N/A	N/A
T12 ELECTRONIC					
KTEB-240-1-TP-PIC	1 or 2 lite F40T12, 120V, Replaces 240TPH	RELB-2S40-SC	B234SR120MA	GE240RS120	QTP2x40T12/120RSN-SC
KTEB-240-UV-TP-PIC	1 or 2 lite F40T12, 120-277V, Replaces 240TPH and 240TPH277	ICN-2S40-N	N/A	GE-240-RS-MV-N	N/A
KTEB-275-1-TP-PIC-SL	2x F96T12, 120V	REL-2P60-S-A	B260I120MA	N/A	N/A
KTEB-275-UV-TP-PIC	2x F96T12, 120-277V, Replaces 296TPH and 296TPH277	ICN-2P60-SC	B260IUNVHP	GE-260-IS-MV-N	N/A
KTEB-2110-1-TP-PIC	2x F96T12HO, 120V	REL-2S110-SC	B295SR120HP	N/A	N/A
KTEB-2110-UV-TP-PIC	2x F96T12HO, 120-277V	REL-2S110-SC or VEL-2S110-SC	B295SRUNVHP	GE296HO-MV-N	N/A
KTEB-120-1-TP-EMI	1x F20T12, 120V	N/A	N/A	N/A	N/A
KTEB-140-1-TP-EMI	1x F40T12, 120V	N/A	N/A	N/A	N/A
KTEB-220-1-TP-EMI	2x F20T12, 120V	N/A	N/A	N/A	N/A

Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

CROSS REFERENCE GUIDE

HID

KEYSTONE PART NUMBER	DESCRIPTION	ADVANCE PART NUMBER	ULT/MAGNETEK PART NUMBER	GE PART NUMBER	SYLVANIA PART NUMBER
HIGH PRESSURE SODIUM KITS					
HPS-35R-1	35W, High Pressure Sodium, 120V	71A7707	1233-251U	N/A	LU35/120R
HPS-50R-1	50W, High Pressure Sodium, 120V	71A7807	1233-251U	N/A	LU50/120R
HPS-70R-1	70W, High Pressure Sodium, 120V	71A7907	1233142U0001	1233142U0001	LU70/120R
HPS-70X-Q	70W, High Pressure Sodium, Quad Tap	71A7971	S70MLTLC3M-500K	GES70MLTLC3D-5	LU70/MULTI-KIT
HPS-100R-1	100W, High Pressure Sodium, 120V	71A8007	123310U001	N/A	LU100/120R
HPS-100X-Q	100W, High Pressure Sodium, Quad Tap	71A8071	S100MLTLC3M-500K	GS100MLTLC3D-5	LU100/MULTI-KIT
HPS-150R-1	150W, High Pressure Sodium, 120V	71A8107	1233154U001	1233154U0001	LU150/120R
HPS-150X-Q	150W, High Pressure Sodium, Quad Tap	71A8172	S150MLTLC3M-500K	GES150MLTLC3D-5	LU150/MULTI-KIT
HPS-250A-Q-HP	250W, High Pressure Sodium, Quad Tap	71A8271	S250MLTAC4M-500K	GES250MLTAC4-5	LU250/MULTI-KIT
HPS-250A-P-HP	250W, High Pressure Sodium, 5 Tap	71A8251	S250ML5AC4M-500K	GES250ML5AC4-5	LU250/SUPER5-KIT
HPS-400A-Q-HP	400W, High Pressure Sodium, Quad Tap	71A8473	S400MLTAC5M-500K	GES400MLTAC4-5	LU400/MULTI-KIT
HPS-400A-P-HP	400W, High Pressure Sodium, 5 Tap	71A8453	S400ML5AC5M-500K	GES400ML5AC4-5	LU400/SUPER5-KIT
HPS-1000A-Q-HP	1000W, High Pressure Sodium, Quad Tap	71A8773	S1000MLTAC5M	GES1000MLTAC5-5	LU1000/MULTI-KIT
HPS-1000A-P-HP	1000W, High Pressure Sodium, 5 Tap	71A8753	S1000ML5AC5M	GES1000ML5AC5-5	LU1000/SUPER5-KIT
METAL HALIDE KITS					
MH-50X-D	50W, Metal Halide, Dual Tap (120/277)	71A5181	M50MLTLC3M	N/A	N/A
MH-50X-Q	50W, Metal Halide, Quad Tap	71A5191	M50MLTLC3M	GEM50MLTLC3D-5	N/A
MH-70X-Q	70W, Metal Halide, Quad Tap	71A5292	M70MLTLC3M-500K	GEM70MLTLC3D-5	N/A
MH-100X-Q	100W, Metal Halide, Quad Tap	71A5390	M100MLTLC3M-500K	GEM100MLTLC3D-5	N/A
MH-150X-Q	150W, Metal Halide, Quad Tap	71A5482	M150MLTLC3M	GEM150MLTLC3D-5	N/A
MH-175A-Q-HP	175W, Metal Halide, Quad Tap	71A5570	M175MLTAC3M-500K	GEM175MLTAC3-5	M175/MULTI-KIT
MH-175A-P-HP	175W, Metal Halide, 5 Tap	N/A	N/A	GEM175ML5AC3-5	M175/SUPER5-KIT
MH-250A-Q-HP	250W, Metal Halide, Quad Tap	71A5770	M250MLTAC3M	GEM250MLTAC3-5	M250/MULTI-KIT
MH-250A-P-HP	250W, Metal Halide, 5 Tap	71A5750	M250ML5AC3M	GEM250ML5AC3-5	M250/SUPER5-KIT
MH-400A-Q-HP	400W, Metal Halide, Quad Tap	71A6071	M400MLTAC4M-500K	GEM400MLTAA4-5	M400/MULTI-KIT
MH-400A-P-HP	400W, Metal Halide, 5 Tap	71A6051	M400ML5AC4M-500K	GEM400ML5AA4-5	M400/SUPER5-KIT
MH-1000A-Q-HP	1000W, Metal Halide, Quad Tap	71A6572	M1000MLTAC5M-500K	GEM1000MLTAC5-5	M1000/MULTI-KIT
MH-1000A-P-HP	1000W, Metal Halide, 5 Tap	71A6552	M1000ML5AC5M-500K	GEM1000ML5AC5-5	M1000/SUPER5-KIT
MH-1500A-Q-HP	1500W, Metal Halide, Quad Tap	71A6772	M1500MLTAC5M-500K	GEM1500MLTAC5-5	M1500/MULTI-KIT
PULSE START METAL HALIDE KITS					
MPS-175A-Q-KIT	175W, Pulse Start (M137) Metal Halide, Quad Tap	71A5593	P175MLTAC3M500K	GEP175MLTAC3-5	M175/MULTI-PS-KIT
MPS-200A-Q-KIT	200W, Pulse Start (M136) Metal Halide, Quad Tap	71A5692	P200MLTAC3M500K	N/A	M200/MULTI-PS-KIT
MPS-250A-Q-KIT	250W, Pulse Start (M138) Metal Halide, Quad Tap	71A5792	P250MLTAC4M500K	GEP250MLTAC4-5	M250/MULTI-PS-KIT
MPS-320A-Q-KIT	320W, Pulse Start (M132) Metal Halide, Quad Tap	71A5892	P320MLTAC4M	GEP320MLTAC4-5	M320/MULTI-PS-KIT
MPS-350A-Q-KIT	350W, Pulse Start (M131) Metal Halide, Quad Tap	71A5993	P350MLTAC4M500K	GEP350MLTAC4-5	M350/MULTI-PS-KIT
MPS-450A-Q-KIT	450W, Pulse Start (M144) Metal Halide, Quad Tap	71A6393	P450MLTAC4M500K	N/A	M450/MULTI-PS-KIT
MPS-750A-Q-KIT	750W, Pulse Start (M149) Metal Halide, Quad Tap	71A6490	P750MLTAC5M500K	GEP750MLTAC5-5	M750/MULTI-PS-KIT
MPS-1000A-Q-KIT	1000W, Pulse Start (M141) Metal Halide, Quad Tap	71A6591	P1000MLTAC5M500K	GEP1000MLTAC5-5	M1000/MULTI-PS-KIT
F-CAN					
MH-70X-D-FCAN	70W, Metal Halide (M98), Dual Tap	72C5282	11210506CTC	11210506CTC000C	47694
MH-100X-D-FCAN	100W, Metal Halide (M90), Dual Tap	72C5381	11210239CTC	11210239CTC000I	47734
MH-150X-D-FCAN	150W, Pulse Start Metal Halide (M102), Dual Tap	72C5482	11210539CTC	N/A	47738
MH-175A-D-FCAN	175W, Metal Halide (M57/H39), Dual Tap	72C5581	1110245SCTC	1110245SCTC000I	47743

Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

CROSS REFERENCE GUIDE

COMPACT FLUORESCENT

KEYSTONE PART NUMBER	DESCRIPTION	ADVANCE PART NUMBER	ULT/MAGNETEK PART NUMBER	GE PART NUMBER	SYLVANIA PART NUMBER
CFL ELECTRONIC					
KTEB-213-UV-TP-PIC-DW	1 or 2 Lite x 13W Compact Electronic, Multivolt, Rapid Start	ICF-2S13	C213UNVxxx	GEC213-MVPS-3W	QTP 1/2x13CF/UNV
KTEB-213-UV-TP-PSD	1 or 2 Lite x 13W Compact Electronic, Multivolt, Program Start	ICF-2S13	C213UNVxxx	GEC213-MVPS-3W	QTP 1/2x13CF/UNV
KTEB-218-UV-TP-PIC-DW	1 or 2 Lite x 18W Compact Electronic, Multivolt, Rapid Start	ICF-2S18	C218UNVxxx	GEC218-MVPS-3W	QTP 1/2x18CF/UNV
KTEB-218-UV-TP-PSD	1 or 2 Lite x 18W Compact Electronic, Multivolt, Program Start	ICF-2S18	C218UNVxxx	GEC218-MVPS-3W	QTP 1/2x18CF/UNV
KTEB-226-UV-TP-PIC-DW	1 or 2 Lite x 26W, 1x32W or 1x42W Compact Electronic, Multivolt, Rapid Start	ICF-2S26	C2642UNVxxx	GEC226-MVPS-3W	QTP 2x26CF/UNV
KTEB-226-UV-TP-PSD	1 or 2 Lite x 26W, 1x32W or 1x42W Compact Electronic, Multivolt, Program Start	ICF-2S26	C2642UNVxxx	GEC226-MVPS-3W	QTP 2x26CF/UNV
KTEB-242T-UV-TP-PIC-DW	2 Lite 32 or 42W, Compact Electronic Multivolt, Rapid Start	ICF-2S42	C242UNVxxx	N/A	QTP 2x26/32/42CF/UNV M
KTEB-242T-UV-TP-PSD	2 Lite 32 or 42W, Compact Electronic Multivolt, Program Start	ICF-2S42	C242UNVxxx	N/A	QTP 2x26/32/42CF/UNV M

MAGNETIC

KEYSTONE PART NUMBER	DESCRIPTION	ADVANCE PART NUMBER	ULT/MAGNETEK PART NUMBER	GE PART NUMBER	SYLVANIA PART NUMBER
MAGNETIC FLUORESCENT					
SS22WSTP	22W Circline, Small Can, Magnetic, with Sockets	N/A	200-C-S-P	GEM1FC8T9RS120IP	N/A
CC579TP	7W, 9W Compact Fluorescent	LPL-5-9-TP	4105F2P	N/A	N/A
CC1322TP	13W Compact Fluorescent, Magnetic	LO-13-22-TP	200-H2P	N/A	N/A
113SHPTP	13W Compact Fluorescent, Magnetic, High Power Factor	H-1B13-TP-W	4112P	N/A	N/A

SIGN BALLASTS

KEYSTONE PART NUMBER	DESCRIPTION	ADVANCE PART NUMBER	ULT/MAGNETEK PART NUMBER	GE PART NUMBER	SYLVANIA PART NUMBER
MAGNETIC SIGN BALLASTS					
KTSB-0412-12-1-TP	(1-2) T12HO 4-12 Feet	ASB-0412-12-BL-TP	USB-0412-12	GESB-0412-12-IP	MSB-12-0412-TP
KTSB-0620-24-1-TP	(2-4) T12HO 6-20 Feet	ASB-0620-24-BL-TP	USB-0816-14	GESB-0620-24-IP	MSB-24-0620-TP
KTSB-1224-24-1-TP	(2-4) T12HO 12-24 Feet	ASB-1224-24-BL-TP	USB-1024-14	GESB-1224-24-IP	MSB-24-1224-TP
KTSB-2040-24-1-TP	(2-4) T12HO 20-40 Feet	ASB-2040-24-BL-TP	USB-1632-24	GESB-2040-24-IP	MSB-24-2040-TP
KTSB-1240-46-1-TP	(4-6) T12HO 12-40 Feet	ASB-1240-46-BL-TP	USB-2036-46	GESB-1240-46-IP	MSB-46-1240-TP
KTSB-2448-46-1-TP	(4-6) T12HO 24-48 Feet	ASB-2448-46-BL-TP	USB-2048-46	GESB-2448-46-IP	MSB-46-2448-TP
ELECTRONIC SIGN BALLASTS					
KTSB-E-0216-12-UV	(1-2) T8HO 4-12 Feet, T12HO 2-16 Feet	ASB-0412-12-E	ESB216-12	N/A	N/A
KTSB-E-0432-14-UV	(1-4) T8HO 4-24 Feet, T12HO 4-32 Feet	ASB-1232-24-E	ESB432-14	N/A	ESB-13-0424-TP
KTSB-E-1040-14-UV	(1-4) T8HO 8-32 Feet, T12HO 10-40 Feet	N/A	ESB1040-14	N/A	ESB-14-1040-TP
KTSB-E-0848-46-UV	(4-6) T8HO 16-36 Feet, T12HO 8-48 Feet	ASB-2048-46-E	ESB848-46	N/A	N/A

Keystone Technologies, LLC does not warrant or guarantee the accuracy of this cross reference guide.

Please contact Keystone Technologies for help with proper ballast selection.

Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

OBsolete Product Guide

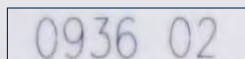
CATALOG NUMBER OF OBSOLETE ITEM	REPLACED WITH	KEY DIFFERENCES
113ATP	No Replacement	N/A
120TP	KTEB-120-1-TP-EMI	Electronic, Same Mounting and Wiring
122TPWS	KTEB-1C22-1-TP-WS	Electronic, Smaller Footprint
140TP	KTEB-140-1-TP-EMI	Electronic, Same Mounting and Wiring
140TPWS	KTEB-140-1-TP-EMI-WS	Electronic, Same Mounting and Wiring
154TPWS	KTEB-2C72-1-TP-WS	Electronic, Same Mounting and Wiring
172TPWS	KTEB-2C72-1-TP-WS	Electronic, Same Mounting and Wiring
213TPES	No Replacement	N/A
220TP	KTEB-220-1-TP-EMI	Electronic, Same Mounting and Wiring
234TPH	KTEB-240-1-TP-PIC	Electronic, Same Mounting and Wiring
240TPES	No Replacement	N/A
296TPH	KTEB-275-1-TP-PIC-SL	Electronic, 120V, 9" Case
240TPH277	KTEB-240-UV-TP-PIC	Electronic 120-277V, Same Mounting
240TPH	KTEB-240-1-TP-PIC	Electronic, Same Mounting and Wiring
240TPLW	KTEB-240-1-TP-PIC	Electronic, Same Mounting and Wiring
296HOTPH277	KTEB-2110-UV-TP-PIC	Electronic 120-277V, Same Mounting
296HOTPH	KTEB-2110-UV-TP-PIC	Electronic 120-277V, Same Mounting
296TPH277	KTEB-275-UV-TP-PIC	Electronic 120-277V, Same Mounting
IL-xx* Series	No Replacement	N/A
KTEB-132LBF-UV-TP-PIC	KTEB-132-UV-IS-N-P	New Unit has Improved Energy Efficiency
KTEB-232LBF-UV-TP-PIC	KTEB-232-UV-IS-N-P	New Unit has Improved Energy Efficiency
KTEB-232LBF-UV-TP-PIC-SL	KTEB-232-UV-IS-N-P	New Unit has Improved Energy Efficiency
KTEB-232RIS-1-TP	KTEB-232RIS-1-TP-SL	New Model is Slightly Narrower
KTEB-260-1-TP-PIC	KTEB-275-1-TP-PIC-SL	New Unit Operates a Wider Range of Lamps
KTEB-332LBF-1-TP-PIC	KTEB-332LBF-UV-TP-PIC	Multi-Volt instead of 120V
KTEB-332LBF-UV-TP-PIC	KTEB-332-UV-IS-N-P	New Unit has Improved Energy Efficiency
KTEB-432LBF-UV-TP-PIC	KTEB-432-UV-IS-N-P	New Unit has Improved Energy Efficiency
RL40P	KTEB-140-1-TP-EMI	Electronic, Same Mounting and Wiring
RSL40P	KTEB-140-1-TP-EMI	Electronic, Same Mounting and Wiring
TR20P	KTEB-120-1-TP-EMI	Electronic, Same Mounting and Wiring

* xx denotes several case styles available.

DATE CODE

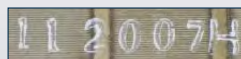
All Keystone Ballasts are marked with a date code to indicate when the ballast was manufactured. The date code appears in the following formats:

Electronic Ballasts:



- The first 2 digits (09) refer to the year of manufacture.
- The second 2 digits (36) refer the week of manufacture.
- The final 2 digits (02) are for internal use only and have no relation to the date of manufacture.

HID Ballasts:



- The first 2 digits (11) refer to the week of manufacture.
- The next 4 digits (2007) refer to the year of manufacture.
- The final letter (H) is for internal use only and has no relation to the date of manufacture.

Specifications subject to change without notice. For complete product specifications, visit www.keystoneballast.com

GLOSSARY

AC (Alternating Current) - An electric current that is ordinarily generated by a utility organization and provided to a customer. The electric flow periodically reverses direction.

ANSI (American National Standards Institute) - Non-profit institute that provides voluntary product performance standards and guidelines for the physical, electrical and performance characteristics of ballasts and other lighting and electrical equipment.

Ballast - Device required to properly regulate the flow of current to high intensity discharge (HID) and fluorescent lamps.

Ballast Efficacy Factor (BEF) - The BEF = Ballast Factor x 100 / Input Watts. BEF is a measure used to compare various lighting systems based upon light output and power input. The BEF can only be used to compare systems operating the same quantity and type of lamps.

Ballast Factor (BF) - Measure of light output of a lamp from a specific commercial ballast, as compared to the light output of the same lamp working by a laboratory standard reference ballast. For example, a ballast with a ballast factor of 0.95 means that it produces 95% of the light produced by an ANSI reference ballast, operating the same lamps.

Ballast Hum - Sound made by operating both electromagnetic and electronic ballasts. Generated by the vibration of laminations in the electromagnetic field that transforms the voltage and current for discharge lamps.

Ballast Losses - Power or energy that is supplied to the ballast, but is not converted into light energy.

Capacitor - Device in a ballast that stores electrical energy. Used for lamp regulation and power factor correction.

Cathode - Metal filaments that emit electrons in a fluorescent lamp. Also known as a negatively charged electrode.

Centigrade (C) - Celsius temperature scale where 0°C = 32°F.

Circle E (®) - Branding on a ballast which designates that a ballast meets or exceeds the requirements of the Energy Independence and Security Act of 2009.

Constant Wattage Autotransformer (CWA) - A HID ballast that has a capacitor in series with a lamp and that also has primary and secondary coils electrically connected. The CWA regulates a wide input voltage range resulting in a fairly constant lamp current.

Coil - Windings of copper or aluminum wire surrounding the steel core in a ballast.

Core - A component of an electromagnetic ballast that is surrounded by a coil. The core is comprised of steel laminations or solid ferrite material.

Core and Coil Ballast - A ballast that contains a core and a coil, which operates fluorescent or HID lamps. Also referred to as an electromagnetic ballast.

Crest Factor (Lamp Current Crest Factor) - Ratio of the peak lamp current to RMS or average lamp current for any AC waveform.

Efficacy - Lumen output per unit of power supplied to a ballast (lumens per watt). Used to measure how effectively a light source converts electrical energy to lumens of visible light.

Electrode - Metal filaments, typically located inside a gas lamp, that emit or collect electrons in a fluorescent lamp. Negatively charged free electrons emitted by one electrode are attracted to the positive electrode (anode), resulting in an arc of electric current.

Electromagnetic Ballast (Magnetic Ballast) - A ballast with low frequency (50-60 Hz) that transforms electrical current, using a core and coil assembly, to start and operate fluorescent and HID lamps.

EMI (Electromagnetic Interference) - High-frequency electronic ballasts and other electronic devices can generate electrical interference (noise) with TVs, radios and other appliances. Levels generated by high frequency electronic devices are subject to regulation by the Federal Communications Commission (FCC).

Energy Star (■) - A joint program from the U.S. Department of Energy and the U.S. Environmental Protection Agency for the purpose of providing energy efficient products and practices. Ballasts and fixtures with this label meet very high standards for energy-efficiency and quality.

Filament - Coated wire that emits electrons when voltage is applied.

Filament Voltage - Voltage applied to heat the lamp filament wire.

Fluorescent Lamp - High efficiency gas-filled lamp which utilizes the interaction of electrons with phosphors lining the lamp's glass tube to produce light.

Four-Pin Compact Fluorescent Lamps - Type of lamp without any starter built into the base. Instead, there are four pins in the base to make electrical contact.

Frequency - Rate of alteration in an AC current. Expressed in cycles per second or Hertz (Hz).

Hertz (Hz) - Measurement of the frequency of alteration of current or voltage.

High Intensity Discharge (HID) Lamp - A discharge lamp with compact arc tubes which hold mercury, sodium and various gases. These elements become vaporized within the electric arc stream to produce light.

High Power Factor - A ballast which has a power factor of at least 0.90 (90%) by use of a capacitor. These ballasts require less line current than normal power factor ballasts.

Ignitor - An electronic device used within the ballast circuit which provides a high voltage electrical pulse to initiate an electrical discharge.

Input Voltage - Power line or power supply voltage required for proper operation of fluorescent or HID ballast.

Input Watts - Total power input to the ballast that includes lamp watts and ballast losses.

Instant Start - Lamp starting method in which a high voltage input starts the lamp with no preheating of lamp filaments.

Lamp - The complete light-source assembly including the inner parts as well as the outer bulb or tube and base. Also commonly referred to as a light bulb.

Lamp Current Crest Factor - See "Crest Factor".

Lamp Watts - Input power consumed to operate lamps.

Lumens - Measurement of the quantity of light emitted by a source.

Lumens/Watts - Measurement of the luminous efficacy produced from a light source.

National Electric Code (NEC) - An electrical installation code, accepted throughout the country developed by the National Fire Protection Association to reduce the risk of fire.

NEMA Premium (NEMA) - Ballasts with this label are recognized as the most efficient T8 ballasts. These T8 ballasts include instant-start, programmed-start, and dimmable models and typically produce an additional 5-7% of energy savings over standard T8 ballast systems.

Normal Power Factor - Ballasts that have a power factor less than 0.90 and do not incorporate power factor correction. These ballasts require about twice the line current of high power factor ballasts.

Parallel Circuit - Refers to a ballast circuit where multiple lamps are connected to one ballast, yet they operate independently of one another. This allows for other lamps which are operated by the same ballast to remain lit if one of the companion lamps fails.

PCB (Polychlorinated Biphenyls) - Chemical pollutant previously used in ballast capacitors, which was outlawed by the EPA in 1978.

Potting - Material used to completely cover and surround the components of some electronic and magnetic ballasts. It dampens sound, protects components, and dissipates heat.

Power Factor (PF) - Power Factor = Watts / (Volts x Amps). A measurement of how efficiently an electrical device uses the power provided by the AC voltage source. High power factor ballasts require less AC operating current using the same wattage than similar low power factor ballasts.

Preheat Ballast - An electromagnetic ballast that uses a separate starter to heat the filament of the lamp before the arc is created in order to ignite the lamp.

Programmed Rapid Start - Lamp starting method which preheats the lamp filaments, while the lamp has not yet ignited and closely controls the preheat duration before applying the open circuit voltage (OCV) to ignite the lamp.

Rapid Start Ballast - Lamp starting method which involves a ballast providing both filament heating and starting open circuit voltage (OCV) to the lamp at the same time in order to light the lamp.

RoHS (Restriction of Hazardous Substances) - Removal of Hazardous Substances. This means the ballast contains less than 0.01% of cadmium, less than 0.01% of hexavalent chromium, and less than 0.1% each of lead, PBB and PBDE by weight at raw homogeneous materials level. There also must be 100 ppm or less of mercury in the component and the mercury must not have been intentionally added.

RU (UL) - UL Recognized Component. This mark indicates that this product meets UL standards to be installed into another device, system, or product.

Total Harmonic Distortion (THD) - The sum of all of the harmonic distortion on the AC waveform that is produced by a ballast. Excessive THD levels can cause efficiency losses as well as overheating and deterioration of components.

Transients - High voltage surges through an electrical system that happen as a result of lighting striking nearby transformers, overhead lines or the ground. Short circuits, utility system switching, or switching of large motors may also cause these surges, which can lead to the premature failure of ballasts.

UL (UL) - Abbreviation for Underwriters' Laboratories, Inc., a non-profit organization which sets safety standards for electrical appliances and other products.

Watt - Measurement of electrical power.

ORDERING INFORMATION

Keystone packages products in a variety of styles so that customers can benefit from the most suitable packaging for their needs:

BULK PACK

Ballasts are shipped nested together for maximum loading onto the pallet. All lead wires are organized so each ballast may be pulled quickly from the pallet. This packaging style is typically requested by fixture manufacturers.

TO ORDER: Add "BP" to the end of the catalog number to order Bulk Pack. Example: KTEB-232-UV-IS-N-P-BP

CARTON PACK

Ballasts are packed in economic quantities to fit into a UPS shippable carton. This packaging style is typically used for fixture manufacturers or direct shipments to job sites.

TO ORDER: Add "CP" to the end of the catalog number to order Carton Pack. Example: KTEB-232-UV-IS-N-P-CP

DISTRIBUTOR PACK

Ballasts are individually shrink wrapped and packed in quantities most suitable for distributor stocking requirements. Each box is clearly labeled with all relevant ballast information for easy identification in distributor warehouses. This packaging style is only available to authorized Keystone ballast distributors.

TO ORDER: Add "DP" to the end of the catalog number to order Distributor Pack. Example: KTEB-232-UV-IS-N-P-DP

HID KIT

HID ballast kits include a ballast, capacitor (if required), ignitor (if required), mounting brackets, bolts, and instruction sheet. The ballast, capacitor, and ignitor are pre-wired at the factory to facilitate a quicker and error-free installation. This packaging style is ideal for fixture manufacturers and distributors and is preferred by contractors because all necessary items are contained within the kit.

TO ORDER: Add "KIT" to the end of HID catalog numbers. Example: MH-100X-Q-KIT

COMPACT FLUORESCENT KIT

Compact Fluorescent (CFL) Kits include a commercial grade, multi-voltage electronic ballast, universal mounting plate, color-coded wires, and a convenient wire extraction tool. These CFL kits are preferred by distributors and contractors because each CFL kit offers the ability to change out any equally rated CFL ballast, regardless of wiring and mounting configurations.

TO ORDER: Add "KIT" to the end of compact fluorescent catalog numbers. Example: KTEB-226-UV-TP-PIC-DW-KIT

CUSTOM ORDERS

As a national leader in ballast innovation, Keystone Technologies offers a competitive advantage with over 65 years of experience in the design and implementation of new solutions to meet your lighting needs. However, if your specifications exceed what is offered in this catalog, Keystone has the capabilities to be your partner in designing and building custom products to meet your requirements.

Please do not hesitate to contact us with any questions regarding custom ballast solutions or accessories for any HID, compact fluorescent, linear lamp ballast, low voltage transformer, or LED driver. E-mail info@keystoneballast.com or call (800) 464-2680.

CATALOG NUMBER, PAGE(S)	CATALOG NUMBER, PAGE(S)	CATALOG NUMBER, PAGE(S)
113ATP, 8-5	HPS-250A-1-HP, 3-12	KTEB-132-UV-PS-L-P, 1-8, 1-10, 1-11, 1-12, 1-13
113SHPTP, 6, 2-2, 8-4	HPS-250A-D-HP, 3-12	KTEB-132-UV-PS-N-P, 4, 1-8, 1-10, 1-11, 1-12, 1-13
120TP, 8-5	HPS-250A-P-HP, 3-12, 8-3	KTEB-132-UV-TP-SL, 1-8
122TPWS, 8-5	HPS-250A-P-KIT, 6, 3-12	KTEB-135HE-1-TP, 4, 1-24
140TP, 8-5	HPS-250A-Q-CA, 3-12	KTEB-1382D-1-TP, 1-36
140TPWS, 8-5	HPS-250A-Q-KIT, 6, 3-12	KTEB-1382D-1-TP-WS, 1-34
154TPWS, 8-5	HPS-250A-Q-HP, 3-12, 8-3	KTEB-139HO-1-TP, 1-26, 1-28, 1-30
172TPWS, 8-5	HPS-250A-T3-HP, 3-12	KTEB-140-1-TP-EMI, 3, 1-2, 8-2, 8-5
213TPES, 8-5	HPS-35R-1, 3-10, 8-3	KTEB-140-1-TP-EMI-WS, 4, 1-34, 8-5
220TP, 8-5	HPS-35R-1-KIT, 6, 3-10	KTEB-142T-1-TP-SC, 5, 1-30, 1-36, 2-4, 2-6, 2-8
234TPH, 8-5	HPS-400A-1-HP, 3-12	KTEB-142T-1-TP-SC-RJ, 5, 2-4, 2-6, 2-8
240TPES, 8-5	HPS-400A-4-HP, 3-12	KTEB-142T-1-TP-SC-RJS, 5, 2-4, 2-6, 2-8
240TPH277, 8-5	HPS-400A-4-KIT, 6, 3-12	KTEB-142T-1-TP-SCS, 5, 2-4, 2-6, 2-8
240TPH, 8-5	HPS-400A-D-HP, 3-12	KTEB-154HO-1-TP, 1-26, 1-32
240TPLW, 8-5	HPS-400A-P-HP, 3-12, 8-3	KTEB-1C22-1-TP, 1-36, 2-4
296TPH, 8-5	HPS-400A-P-KIT, 6, 3-12	KTEB-1C22-1-TP-LC, 1-36
296HOTPH277, 8-5	HPS-400A-Q-HP, 3-12, 8-3	KTEB-1C22-1-TP-WS, 4, 1-34, 8-5
296HOTPH, 8-5	HPS-400A-Q-KIT, 6, 3-12	KTEB-1C22-1-TP-WS-LC, 4, 1-34
296TPH277, 8-5	HPS-400A-T3-HP, 3-12	KTEB-1C3032-1-TP-WS, 1-34
CAP-70HPSQ, 3-15	HPS-50R-1, 3-10, 8-3	KTEB-1C3032-1-TP-WS-LC, 1-34
CAP-70MHQ, 3-15	HPS-50R-1-KIT, 6, 3-10	KTEB-208-1-TP-SL-MB, 4, 1-22
CAP-100HPSQ, 3-15	HPS-50X-1, 3-10	KTEB-2110-1-TP-PIC, 3, 1-6, 8-2
CAP-100MHQ, 3-15	HPS-50X-D, 3-10	KTEB-2110-UV-TP-PIC, 3, 1-6, 8-2, 8-5
CAP-150HPSQ, 3-15	HPS-600A-Q-HP, 3-12	KTEB-213-1-TP, 5, 2-2
CAP-150MHQ, 3-15	HPS-600A-Q-KIT, 3-12	KTEB-213-1-TP-DW, 5, 2-2
CAP-175MHQ, 3-15	HPS-70R-1, 3-10, 8-3	KTEB-213-1-TP-SC, 5, 2-2
CAP-175MPS, 3-15	HPS-70R-1-KIT, 6, 3-10	KTEB-213-1-TP-SC-RJ, 5, 2-2
CAP-200MPS, 3-15	HPS-70X-1, 3-10	KTEB-213-1-TP-SC-RJS, 5, 2-2
CAP-250HPSQ, 3-15	HPS-70X-D, 3-10	KTEB-213-1-TP-SCS, 5, 2-2
CAP-250MHQ, 3-15	HPS-70X-Q, 3-10, 8-3	KTEB-213-1-TP-SL-MB, 4, 5, 1-22
CAP-250MPS, 3-15	HPS-70X-Q-KIT, 6, 3-10	KTEB-213-UV-TP-PIC-DW, 4, 2-2, 2-4, 8-4
CAP-320MHQ, 3-15	IL-xx, 8-5	KTEB-213-UV-TP-PIC-DW-KIT, 4, 2-2, 2-4
CAP-350MPS, 3-15	IGN-XG-01, 3-16	KTEB-213-UV-TP-PSD, 4, 2-2, 8-4
CAP-400HPSQ, 3-15	IGN-XG-02, 3-16	KTEB-218-1-TP, 5, 2-4
CAP-400MHQ, 3-15	IGN-XG-03, 3-16	KTEB-218-1-TP-DW, 5, 2-4
CAP-400MPS, 3-15	IGN-XG-04, 3-16	KTEB-218-1-TP-SC, 5, 2-4
CAP-450MPS, 3-15	KT-EMRG-500, 7-2	KTEB-218-1-TP-SC-RJ, 5, 2-4
CAP-750MPS, 3-15	KTEB-108-1-TP-FC, 4, 1-22, 2-2	KTEB-218-1-TP-SC-RJS, 5, 2-4
CAP-1000HPSQ, 3-15	KTEB-113-1-TP, 5, 2-2	KTEB-218-1-TP-SCS, 5, 2-4
CAP-1000MHQ, 3-15	KTEB-113-1-TP-PN, 5, 2-2	KTEB-218-UV-TP-PIC-DW, 4, 2-4, 8-4
CAP-1000MPS, 3-15	KTEB-113-1-TP-SC, 5, 2-2	KTEB-218-UV-TP-PIC-DW-KIT, 4, 2-4
CAP-1500MHQ, 3-15	KTEB-113-1-TP-SC-RJ, 5, 2-2	KTEB-218-UV-TP-PSD, 4, 1-36, 2-4, 8-4
CC1322TP, 6, 1-2, 1-8, 2-2, 8-4	KTEB-113-1-TP-SC-RJS, 5, 2-2	KTEB-220-1-TP-EMI, 3, 1-2, 1-8, 1-9, 8-2, 8-5
CC579TP, 6, 2-2, 8-4	KTEB-113-1-TP-SCS, 5, 2-2	KTEB-221PS-1-TP, 1-22, 1-24
HPS-1000A-1-HP, 3-12	KTEB-113-1-TP-SL-MB, 4, 5, 1-22	KTEB-224HO-UV-PS-SL, 1-26, 1-28, 1-30
HPS-1000A-D-HP, 3-12	KTEB-114-1-TP-FC, 4, 1-22, 1-24, 2-2	KTEB-224HO-UV-TP-PS, 4, 1-26, 1-28, 8-2
HPS-1000A-P-HP, 3-12, 8-3	KTEB-118-1-TP-SC, 5, 1-36, 2-4	KTEB-226-1-TP, 5, 2-6
HPS-1000A-P-KIT, 6, 3-12	KTEB-118-1-TP-SC-RJ, 5, 2-4	KTEB-226-1-TP-DW, 5, 2-6
HPS-1000A-Q-HP, 3-12, 8-3	KTEB-118-1-TP-SC-RJS, 5, 2-4	KTEB-226-1-TP-SC, 5, 2-6
HPS-1000A-Q-KIT, 6, 3-12	KTEB-118-1-TP-SCS, 5, 2-4	KTEB-226-1-TP-SC-RJ, 5, 2-6
HPS-1000A-T3-HP, 3-12	KTEB-120-1-TP, 3, 1-2, 1-8, 1-9	KTEB-226-1-TP-SC-RJS, 5, 2-6
HPS-100R-1, 3-10, 8-3	KTEB-120-1-TP-EMI, 3, 1-2, 1-8, 1-9, 8-2, 8-5	KTEB-226-1-TP-SCS, 5, 2-6
HPS-100R-1-KIT, 6, 3-10	KTEB-126-1-TP, 5, 1-8, 1-9, 1-10, 1-13, 1-34, 1-36, 2-4	KTEB-226-UV-TP-PIC-DW, 4, 1-34, 2-4, 2-6, 8-4
HPS-100X-1, 3-10	KTEB-126-1-TP-LC, 5, 1-8, 1-9, 1-10, 1-13, 1-34, 2-4	KTEB-226-UV-TP-PIC-DW-KIT, 4, 1-34, 2-4, 2-6
HPS-100X-D, 3-10	KTEB-126-1-TP-SC, 5, 2-4	KTEB-226-UV-TP-PSD, 4, 1-28, 1-36, 2-4, 2-6, 8-4
HPS-100X-Q, 3-10, 8-3	KTEB-126-1-TP-SC-RJ, 5, 2-4	KTEB-228-1-TP-PH-SL, 1-22, 1-24
HPS-100X-Q-KIT, 6, 3-10	KTEB-126-1-TP-SC-RJS, 5, 2-4	KTEB-228HE-UV-PS-SL, 4, 1-22, 1-24
HPS-150R-1, 3-10, 8-3	KTEB-126-1-TP-SCS, 5, 2-4	KTEB-228HE-UV-TP-PS, 4, 1-22, 1-24, 8-2
HPS-150R-1-KIT, 6, 3-10	KTEB-128-1-TP-FC, 1-22, 1-24	KTEB-232LBF-1-TP-PIC-EV, 1-8, 1-9, 1-10, 1-13, 1-14, 1-18
HPS-150X-1, 3-10	KTEB-132-1-TP-EMI, 4, 1-8, 1-10, 1-13	KTEB-232LBF-1-TP-PIC-SL, 4, 1-8, 1-9, 1-10, 1-13, 1-14, 1-18
HPS-150X-D, 3-10	KTEB-132LBF-UV-TP-PIC, 8-5	KTEB-232LBF-UV-TP-PIC-SL, 1-18, 8-2, 8-5
HPS-150X-Q, 3-10, 8-3	KTEB-132-UV-IS-H-P, 1-8, 1-10, 1-11, 1-12, 1-13, 8-2	KTEB-232LBF-UV-TP-PIC, 8-5
HPS-150X-Q-KIT, 6, 3-10	KTEB-132-UV-IS-L-P, 3, 1-8, 1-10, 1-11, 1-12, 1-13, 8-2	KTEB-232LBF-UV-TP-PIC-SL, 1-18, 8-2, 8-5
HPS-200A-1-HP, 3-10	KTEB-132-UV-IS-N-P, 3, 1-8, 1-10, 1-11, 1-12, 1-13, 8-2, 8-5	KTEB-232RIS-1-TP, 8-5
HPS-200A-D-HP, 3-10		KTEB-232RIS-1-TP-SL, 4, 1-8, 1-9, 1-10, 1-13, 1-14, 1-18, 8-5
HPS-200A-Q-HP, 3-10	KTEB-132-UV-PS-H-P, 1-8, 1-10, 1-11, 1-12, 1-13	

INDEX

CATALOG NUMBER, PAGE(S)	CATALOG NUMBER, PAGE(S)	CATALOG NUMBER, PAGE(S)
KTEB-232-UV-IS-H-P, 3, 1-8, 1-9, 1-10, 1-11, 1-12, 1-13, 1-14, 1-18, 8-2	KTET-75-1-SCP-EMI, 5-2	MH-175A-P-HP, 3-6, 8-3
KTEB-232-UV-IS-L-P, 3, 1-8, 1-9, 1-10, 1-11, 1-12, 1-13, 1-14, 1-18, 8-2	KTET-75-2-SCP-RJS, 5-2	MH-175A-Q-AA, 3-6
KTEB-232-UV-IS-N-P, 3, 1-8, 1-9, 1-10, 1-11, 1-12, 1-13, 1-14, 1-18, 8-2	KTLD-6-1-0A38-FDIM, 6-2	MH-175A-Q-CA, 3-6
KTEB-232-UV-PS-H-P, 1-8, 1-9, 1-10, 1-11, 1-12, 1-13, 1-14, 1-18	KTLD-7-1-0A38-LDIM, 6-2	MH-175A-Q-KIT, 5, 3-6
KTEB-232-UV-PS-L-P, 1-8, 1-9, 1-10, 1-11, 1-12, 1-13, 1-14, 1-18	KTLD-7-1-0A70-LDIM, 6-2	MH-175A-Q-HP, 3-6, 8-3
KTEB-232-UV-PS-N-P, 4, 1-8, 1-9, 1-10, 1-11, 1-12, 1-13, 1-14, 1-18	KTLD-10-1-0A35, 6-2	MH-175A-T3-HP, 3-6
KTEB-235HE-UV-TP-PS, 1-22, 1-24, 8-2	KTLD-10-1-0A35-LDIM, 6-2	MH-250A-1-HP, 3-8
KTEB-239HO-UV-PS-SL, 4, 1-26, 1-28, 1-30, 1-34	KTLD-10-1-26V, 6-4	MH-250A-4-HP, 3-8
KTEB-239HO-UV-TP-PS, 4, 1-26, 1-28, 8-2	KTLD-12-1-0A38-FDIM, 6-2	MH-250A-4-KIT, 5, 3-8
KTEB-240-1-TP, 1-2, 1-10, 1-14, 2-6, 2-8	KTLD-12-1-0A70-LDIM, 6-2	MH-250A-D-HP, 3-8
KTEB-240-1-TP-PIC, 3, 1-2, 8-2, 8-5	KTLD-12-1-0A70-FDIM, 6-2	MH-250A-P-CA, 3-8
KTEB-240-UV-TP-PIC, 3, 1-2, 8-2, 8-5	KTLD-12-1-0A70SQ, 6-2	MH-250A-P-KIT, 5, 3-8
KTEB-242T-UV-TP-PIC-DW, 4, 2-4, 2-6, 2-8, 8-4	KTLD-12-1-0A70SQ-FDIM, 6-2	MH-250A-P-HP, 3-8, 8-3
KTEB-242T-UV-TP-PIC-DW-KIT, 4, 2-4, 2-6, 2-8	KTLD-24-1-0A70SQ, 6-2	MH-250A-Q-AA, 3-8
KTEB-242T-UV-TP-PSD, 4, 1-28, 1-30, 1-34, 1-36, 2-4, 2-6, 2-8, 8-4	KTLD-24-1-0A70SQ-FDIM, 6-2	MH-250A-Q-CA, 3-8
KTEB-254HO-UV-PS-SL, 4, 1-26, 1-32	KTLD-60-1-12V, 6-4	MH-250A-Q-KIT, 5, 3-8
KTEB-254HO-UV-TP-PS, 4, 1-26, 1-32, 8-2	KTLD-60-1-26V, 6-4	MH-250A-Q-HP, 3-8, 8-3
KTEB-259-UV-TP-PIC, 4, 1-20, 8-2	KTLD-60-1-26V-SC, 6-4	MH-250A-T3-HP, 3-8
KTEB-260-1-TP-PIC, 8-5	KTLD-60-UV-24V, 6-4	MH-400A-1-HP, 3-8
KTEB-275-1-TP-PIC-SL, 3, 1-4, 8-2, 8-5	KTLD-60-UV-24V-SC, 6-4	MH-400A-4-HO, 3-8
KTEB-275-UV-TP-PIC, 3, 1-4, 8-2, 8-5	KTLD-80-1-26V, 6-4	MH-400A-4-KIT, 5, 3-8
KTEB-286HO-UV-IS-N, 4, 1-20, 8-2	KTSB-0412-12-1-TP, 6, 4-2, 8-4	MH-400A-D-HP, 3-8
KTEB-2C54PS-1-TP-WS, 1-34	KTSB-0620-24-1-TP, 6, 4-2, 8-4	MH-400A-P-CA, 3-8
KTEB-2C72-1-TP, 1-8, 1-9, 1-10, 1-14	KTSB-1224-24-1-TP, 6, 4-2, 8-4	MH-400A-P-KIT, 5, 3-8
KTEB-2C72-1-TP-WS, 4, 1-34, 8-5	KTSB-1240-46-1-TP, 6, 4-2, 8-4	MH-400A-P-HP, 3-8, 8-3
KTEB-332LBF-1-TP-PIC, 8-5	KTSB-2040-24-1-TP, 6, 4-2, 8-4	MH-400A-Q-AA, 3-8
KTEB-332LBF-UV-TP-PIC, 1-18, 8-2, 8-5	KTSB-2448-46-1-TP, 6, 4-2, 8-4	MH-400A-Q-CA, 3-8
KTEB-332-UV-IS-H-P, 3, 1-9, 1-10, 1-11, 1-12, 1-13, 1-14, 1-18, 8-2	KTSB-E-0216-12-UV, 6, 4-4, 8-4	MH-400A-Q-KIT, 5, 3-8
KTEB-332-UV-IS-L-P, 3, 1-9, 1-10, 1-11, 1-12, 1-13, 1-14, 1-18, 8-2	KTSB-E-0432-14-UV, 6, 4-4, 8-4	MH-400A-Q-HP, 3-8, 8-3
KTEB-332-UV-IS-N-P, 3, 1-9, 1-10, 1-11, 1-12, 1-13, 1-14, 1-18, 8-2	KTSB-E-1040-14-UV, 6, 4-4, 8-4	MH-400A-T3-HP, 3-8
KTEB-332-UV-PS-H-P, 1-9, 1-10, 1-11, 1-12, 1-13, 1-14, 1-18	KTSB-E-0848-46-UV, 6, 4-4, 8-4	MH-50R-2, 3-6
KTEB-332-UV-PS-L-P, 1-9, 1-10, 1-11, 1-12, 1-13, 1-14, 1-18	MH-1000A-1-HP, 3-8	MH-50X-1, 3-6
KTEB-332-UV-PS-N-P, 4, 1-9, 1-10, 1-11, 1-12, 1-13, 1-14, 1-18	MH-1000A-4-CA, 3-8	MH-50X-D, 3-6, 8-3
KTEB-432LBF-1-TP-PIC, 4, 1-9, 1-10, 1-11, 1-14, 1-18, 8-2	MH-1000A-4-KIT, 5, 3-8	MH-50X-D-KIT, 5, 3-6
KTEB-432LBF-UV-TP-PIC, 1-18, 8-2, 8-5	MH-1000A-D-HP, 3-8	MH-50X-Q, 3-6, 8-3
KTEB-432RIS-1-TP, 4, 1-9, 1-10, 1-11, 1-14	MH-1000A-P-CA, 3-8	MH-50X-Q-KIT, 5, 3-6
KTEB-432-UV-IS-L-P, 3, 1-9, 1-10, 1-11, 1-12, 1-13, 1-14, 1-18, 8-2	MH-1000A-P-HP, 3-8, 8-3	MH-70R-2, 3-6
KTEB-432-UV-IS-N-P, 3, 1-9, 1-10, 1-11, 1-12, 1-13, 1-14, 1-18, 8-2	MH-1000A-P-KIT, 5, 3-8	MH-70X-1, 3-6
KTEB-432-UV-PS-H-P, 1-9, 1-10, 1-11, 1-12, 1-13, 1-14, 1-18	MH-1000A-Q-CA, 3-8	MH-70X-D, 3-6
KTEB-432-UV-PS-L-P, 1-9, 1-10, 1-11, 1-12, 1-13, 1-14, 1-18	MH-1000A-Q-KIT, 5, 3-8	MH-70X-D-FCAN, 6, 3-14, 8-3
KTEB-432-UV-PS-N-P, 4, 1-9, 1-10, 1-11, 1-12, 1-13, 1-14, 1-18	MH-1000A-Q-HP, 3-8, 8-3	MH-70X-Q, 3-6, 8-3
KTEB-454HO-UV-PS-SL, 4, 1-18, 1-26, 1-30, 1-32	MH-1000A-T3-HP, 3-8	MH-70X-Q-KIT, 5, 3-6
KTEB-454HO-UV-TP-PS, 4, 1-26, 1-28, 1-32, 8-2	MH-100R-2, 3-6	MPS-1000A-4-CA, 3-4
KTET-150-1-SCP-DIM, 5-2	MH-100X-1, 3-6	MPS-1000A-P-CA, 3-4
KTET-60-1-F-WC-EMI-SCP, 5-2	MH-100X-D, 3-6	MPS-1000A-Q-CA, 3-4
KTET-60-1-SCP-DIM-AL, 5-2	MH-100X-D-FCAN, 6, 3-14, 8-3	MPS-1000A-Q-KIT, 5, 3-4, 8-3
KTET-60-1-WC-F, 5-2	MH-100X-Q, 3-6, 8-3	MPS-175A-4-HP, 3-2
KTET-75-1-SCP-DIM-AL, 5-2	MH-100X-Q-KIT, 5, 3-6	MPS-175A-D4-HP, 3-2
KTET-75-1-SCP-DIM-AL-RJS, 5-2	MH-1500A-4-HP, 3-8	MPS-175A-P-HP, 3-2
KTET-75-1-SCP-DIM-HV-AL, 5-2	MH-1500A-P-CA, 3-8	MPS-175A-P-KIT, 5, 3-2
KTET-75-1-SCP-DIM-RJS, 5-2	MH-1500A-P-HP, 3-8	MPS-175A-Q-HP, 3-2
	MH-1500A-P-KIT, 5, 3-8	MPS-175A-Q-KIT, 5, 3-2, 8-3
	MH-1500A-Q-CA, 3-8	MPS-175A-T3-HP, 3-2
	MH-1500A-Q-HP, 3-8, 8-3	MPS-200A-4-HP, 3-2
	MH-1500A-Q-KIT, 5, 3-8	MPS-200A-D4-HP, 3-2
	MH-150R-2, 3-6	MPS-200A-P-HP, 3-2
	MH-150X-1, 3-6	MPS-200A-P-KIT, 3-2
	MH-150X-D, 3-6	MPS-200A-Q-HP, 3-2
	MH-150X-D-FCAN, 6, 3-14, 8-3	MPS-200A-Q-KIT, 5, 3-2, 8-3
	MH-150X-Q, 3-6, 8-3	MPS-200A-T3-HP, 3-2
	MH-150X-Q-KIT, 5, 3-6	MPS-250A-4-HP, 3-2
	MH-175A-1-HP, 3-6	MPS-250A-D4-HP, 3-2
	MH-175A-D-HP, 3-6	MPS-250A-P-HP, 3-2
	MH-175A-D-FCAN, 6, 3-14, 8-3	MPS-250A-P-KIT, 5, 3-2
	MH-175A-P-CA, 3-6	MPS-250A-Q-HP, 3-2
	MH-175A-P-KIT, 5, 3-6	MPS-250A-Q-KIT, 5, 3-2, 8-3

CATALOG NUMBER, PAGE(S)

MPS-250A-T3-HP, 3-2
MPS-320A-1-HP, 3-2
MPS-320A-4-CA, 3-2
MPS-320A-D4-CA, 3-2
MPS-320A-D-HP, 3-2
MPS-320A-P-CA, 3-2
MPS-320A-P-KIT, 5, 3-2
MPS-320A-Q-CA, 3-2
MPS-320A-Q-KIT, 5, 3-2, 8-3
MPS-320A-Q-HP, 3-2
MPS-320A-T3-CA, 3-2
MPS-350A-1-HP, 3-2
MPS-350A-4-CA, 3-2
MPS-350A-D4-CA, 3-2
MPS-350A-D-HP, 3-2
MPS-350A-P-CA, 3-2
MPS-350A-P-KIT, 5, 3-2
MPS-350A-Q-CA, 3-2
MPS-350A-Q-KIT, 5, 3-2, 8-3
MPS-350A-Q-HP, 3-2
MPS-350A-T3-CA, 3-2
MPS-400A-4-CA, 3-4
MPS-400A-4-KIT, 5, 3-4
MPS-400A-D4-CA, 3-4
MPS-400A-P-CA, 3-4
MPS-400A-P-KIT, 5, 3-4
MPS-400A-Q-CA, 3-4
MPS-400A-Q-KIT, 5, 3-4
MPS-400A-T3-CA, 3-4
MPS-450A-4-HP, 3-4
MPS-450A-D4-HP, 3-4
MPS-450A-P-HP, 3-4
MPS-450A-P-KIT, 5, 3-4
MPS-450A-Q-HP, 3-4
MPS-450A-Q-KIT, 5, 3-4, 8-3
MPS-450A-T3-HP, 3-4
MPS-750A-4-CA, 3-4
MPS-750A-P-CA, 3-4
MPS-750A-Q-CA, 3-4
MPS-750A-Q-KIT, 5, 3-4, 8-3
MPS-875A-4-CA, 3-4
MPS-875A-P-CA, 3-4
MPS-875A-Q-CA, 3-4
RL40P, 8-5
RSL40P, 8-5
TR20P, 8-5
SS22WSTP, 6, 1-34, 8-4

WARRANTY



STATEMENT OF WARRANTY

Keystone Technologies, LLC., P.O. Box 246, Ambler, PA 19002, (215) 283-2600 (hereinafter called "Keystone Technologies") warrants to the purchaser of its magnetic and electronic lamp ballasts, (hereinafter called "Ballasts") to be free of defects in material and workmanship for the specified warranty periods indicated in this catalog starting from the date of manufacture indicated on Ballast.

If it appears within the specified warranty period that any Keystone Technologies Ballast does not meet the warranty specified above, Keystone Technologies, at its option, will replace or repair the defective Ballast.

This warranty is not applicable if the ballast is not installed in accordance with the National Electric Code, the Standards for Safety of Underwriters Laboratories, Inc., Standards for the American National Standards Institute, or the Canadian Standards Association. This warranty is also not applicable if the ballast is not installed according to Keystone Technologies instructions or recommendations or if the product has been exposed to abnormal operating conditions including excessive temperatures.

If a customer must make a warranty claim, please contact Keystone Technologies for appropriate shipping instructions.

Upon return and evaluation of merchandise Keystone Technologies will determine applicability of warranty. If the product is found to be defective under this warranty, Keystone Technologies will provide replacement Ballast(s) as necessary. A maximum of US \$10.00 may be applied to each defective ballast to apply to labor charges at the sole discretion of Keystone Technologies.

NO IMPLIED STATUTORY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL APPLY BEYOND THE AFOREMENTIONED WARRANTY PERIOD. The foregoing warranty is exclusive of all other statutory, written or oral warranties, and no other warranties of any kind, statutory or otherwise, are given or herein expressed.

LIMITATION OF LIABILITY. Keystone Technologies will not under any circumstances whether as a result of breach of contract, breach of warranty, tort, strict liability or otherwise be liable for consequential, incidental, special or exemplary damages including but not limited to, loss of profits or revenues, loss of use of Ballast or any other goods or associated equipment to damage to any associated equipment, cost of capital, cost of substitute products, facilities of services, down time cost, or claims of claimant's customers.

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Payment Terms: Net 30 days with approved credit, unless otherwise agreed to in writing prior to sale.

Standard Pricing: Keystone Technologies will furnish a price list for all products available for purchase. All new orders will apply the most current price list available. Updated price lists are always available through our online portal or by contacting Keystone Technologies. Prices are subject to change without notice. Keystone Technologies will make all price updates available as soon as they occur.

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Freight Allowance: Keystone Technologies will prepay freight based on the prevailing freight policy stated on the customer price list at the time of order. Freight charges will be added to the invoice on shipments less than the prevailing freight policy at the time of order.

Express Freight: Keystone Technologies will ship all orders using standard ground shipping methods. If the customer requests an express shipping method, Keystone Technologies will ship only if the customer's Express Freight account number is provided at the time of order. Keystone Technologies assumes no responsibility regarding the carriers shipping delivery schedules.

Freight Routing: Keystone Technologies reserves the right to determine the routing of freight on all orders. Keystone Technologies will make every effort to ship orders complete, however, Keystone Technologies reserves the right to split shipments as necessary to ensure faster delivery.

Transportation Claims: All product is shipped in New Condition with title of the merchandise passing to the buyer upon delivery to the carrier. The buyer has the responsibility to inspect the goods upon delivery. Any claim for shortage or damage must be noted on the freight Bill of Lading and filed promptly with the carrier. In the event of concealed damage, the carrier should be notified immediately. Hold all damaged goods with the packaging material intact until an inspection is completed. Although Keystone Technologies' responsibility for shipments ends with the delivery to the carrier, Keystone will make every effort to assist the buyer in rectifying the claim.

Returned Goods: No merchandise may be returned without prior authorization from Keystone Technologies. Keystone Technologies will issue a Returned Goods Authorization, which must be accompanied on any returned shipments. The Returned Goods Authorization is valid for 30 days. Material must be returned freight prepaid. Upon inspection and acceptance of the returned material, Keystone Technologies will issue a merchandise credit. Restocking fees may apply.



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