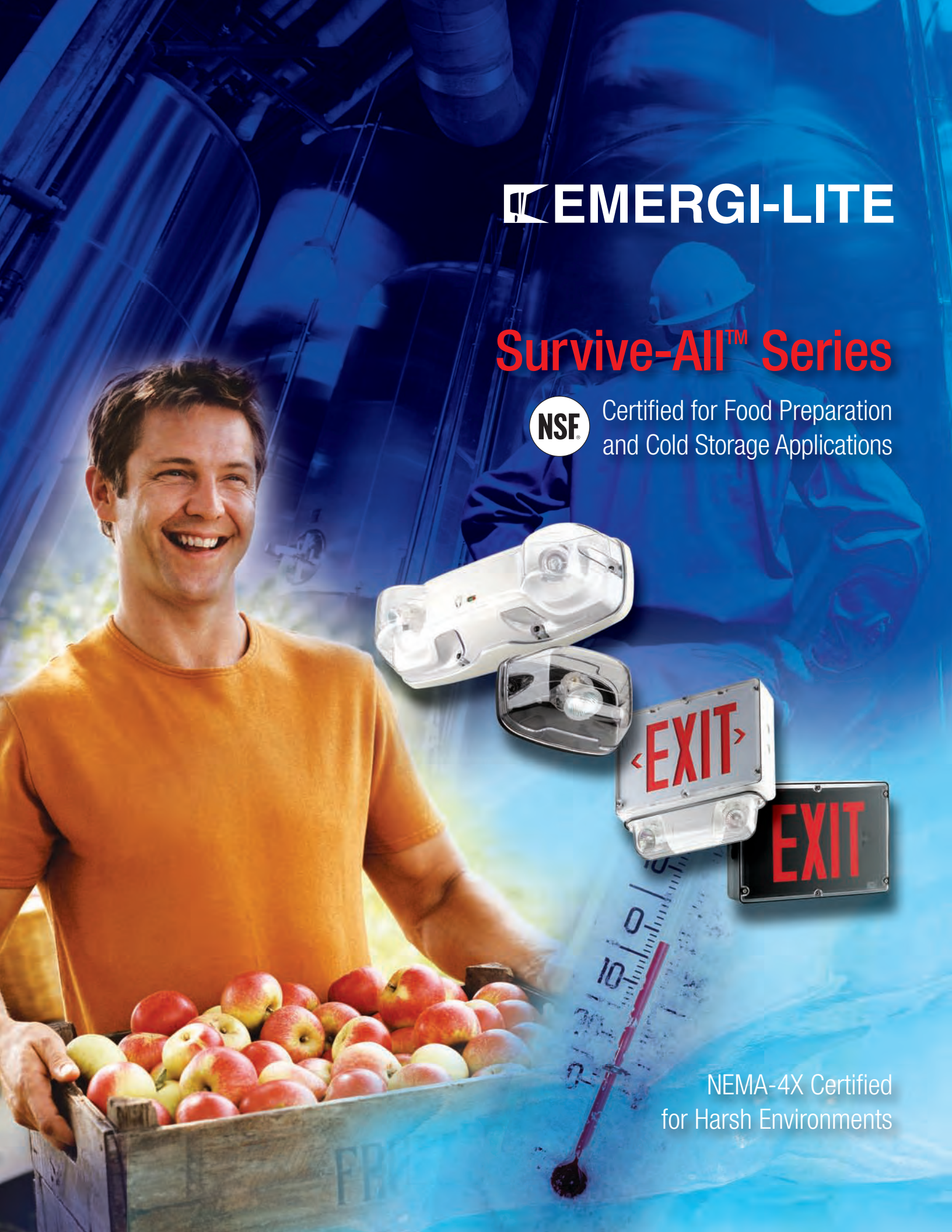
EMERGI-LITE

Survive-All™ Series

NSF Certified for Food Preparation and Cold Storage Applications



NEMA-4X Certified for Harsh Environments

NSF What and Why?

Required Testing

- Physical design and construction evaluation: Ensures the machine is easily cleanable.
- Material review: Provides verification that the materials used to fabricate the equipment are nontoxic. Materials must be corrosion resistant; coatings are tested for durability against impact and abrasion.
- Sanitization effectiveness: Confirms that the manufacturer's recommended cleaning and sanitizing procedures actually do sanitize the equipment.

The NSF Mark

The presence of the NSF Mark on food service equipment means that the equipment has been evaluated, tested, and certified by NSF International as meeting international commercial food equipment standards. To earn the right to use the NSF Mark, a manufacturer must pass not only stringent evaluation and testing of its product, but also rigorous, unannounced inspections of its production facilities which are conducted on a routine basis.





NSF International

NSF International is an independent, not-for-profit organization dedicated to public health safety and protection of the environment. As a "third-party" provider of certification services, NSF is not a government agency and is not controlled by industry. This independent status guarantees that the equipment is tested and evaluated by a completely impartial agency.

Regulatory Acceptance

Demonstrate to regulatory officials that the products you use have obtained the most respected and accepted certifications in the industry.

NSF Certification validates that your food equipment supports HACCP compliance.

HACCP

Hazard analysis and critical control point. Food production, storage, and distribution monitoring system for identification and control of associated health hazards. It is aimed at prevention of contamination, instead of end-product evaluation. In place of relying on food inspectors to detect food safety problems, HACCP shifts the responsibility to the food producer to ensure that the product is safely consumable.

NEMA-4X Rating

Definition: Intended for indoor or outdoor use primarily to provide a degree of protection against corrosion, windblown dust and rain, splashing water, and hose directed water; undamaged by ice which forms on the enclosure.

The Survive-All emergency lighting product family was created to endure the harsh realities of the food processing or preparation industry as well as most heavy industrial facility. In fact, these units are a perfect fit not only for food preparation areas but also for car washes, chemical plants, prisons, swimming pools and sports arenas, parking garages or schools.

NEMA-4X

Introducing the complete family of Survive-All™ NSF and NEMA-4X emergency lighting products for harsh environment applications

The new standard for emergency lighting in food processing has arrived. Battery units, remote fixtures, exit signage and combo units – Emergi-Lite is proud to introduce a complete family of NSF and NEMA-4X Certified emergency lighting products that delivers impressive, state-of-the-art illumination in a visually-appealing package.

A complete emergency lighting solution, these products are designed for use in a wide range of commercial and industrial environments where humidity, corrosion, dust, water infiltration and the risk of vandalism are specification criteria.

Applications

- Food processing / preparation facilities
- Chemical plants
- Warehouse and cold storage facilities
- Heavy industrial facilities
- Marine locations
- Hosedown areas / car washes
- Schools and other public facilities
- Parking garages
- Transit platforms
- Sports arenas / swimming pools
- Security areas / prisons

Certifications

- UL Certified for 90 minutes of emergency operation
- Exit signs meet or exceed UL-924 requirements
- NEMA-4X Certified for high abuse areas, wet locations and cold weather (-40˚C) applications
- NSF Certified for use in food processing plants

Features

- Battery units and remote fixtures deliver amazing pathway illumination – 70 feet, center-to-center (see photometric data on back cover)
- Fully gasketed enclosures prevent water infiltration
- Vandal-resistant enclosures - resist dents, peeling and corrosion
- All units come with tamper-proof screws and bits
- UV resistant enclosures
- Choice of colors – factory white, black and gray
- Continuous self-diagnostic monitoring and monthly self-testing
- Fully automatic, solid state charger
- Non-intrusive magnetic test switch
- NEXUS® compatible

Battery Unit - Survive-All™ SV Series

- Fully gasketed cast aluminum back plate with clear UV resistant polycarbonate cover
- Long-life, maintenance-free sealed lead acid battery
- Choice of MR16 halogen lamps up to 12V, 20W or high-efficiency, 4-Watt, MR16 LED lamps
- Wall, strut or beam mounting
- Unit capacity: up to 60W
- Suitable for cold weather applications — -40˚C (CW option)

Remote Fixtures - Survive-All™ EF39 Series

- Choice of single or double head models
- Fully gasketed cast aluminum back plate with clear UV resistant polycarbonate cover
- Choice of MR16 halogen lamps up to 24V, 20W or high-efficiency, 4-Watt, MR16 LED lamps

Combo Unit - Survive-All™ SVX Combo Series

- Innovative, field-adjustable lamp head assembly
- Choice of MR16 halogen lamps up to 12V, 12W or high-efficiency, 4-Watt, MR16 LED lamps
- Long life, energy efficient ALINGAP technology red LED illuminated EXIT legend
- Can be wall, end or ceiling mounted
- Double face available
- Suitable for cold weather applications: -40˚C

Exit Sign - Survive-All™ SVX Series

- Sealed heavy-duty, vandal-resistant polycarbonate faceplate
- Suitable for cold weather -40˚C (AC/DC model) and -25˚C on self-powered model (CW option)
- Long-life, energy-efficient ALINGAP technology red LED light source
- Energy efficient – consumes less than 3 watts in AC or DC mode

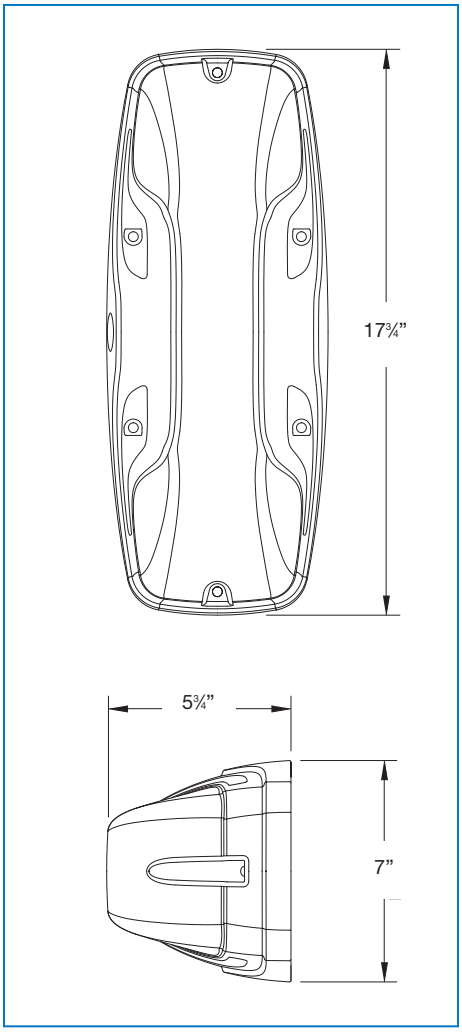
Survive-All™ SV Series

6 and 12 Volt NSF & NEMA-4X Certified Battery Unit

PATENT PENDING

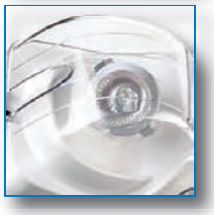
Outline and Dimensions

Dimensions are approximate and subject to change.



Standard Features

- Equipped with a tool-less MR16 swivel lamp assembly to provide precise beam control. Choice of MR16 halogen lamps from 6V or 12V and 6 watt to 20 watt-IR or 4 watt white LED lamp.
- Fully gasketed cast aluminum back plate with clear, UV resistant polycarbonate cover. Tamper-proof screws and bit are included. Available in black, white or gray.
- Available with sealed, maintenance-free Nickel-Cadmium (UL Listed for damp and wet locations), or Lead-Calcium batteries.
- Standard 120/277 Vac 0.3/0.15 Amp input. Non-audible advanced diagnostic charger board, 15 minute time delay and lamp disconnect. Audible warning and time delay functions can be enabled or disabled during installation. Non-obtrusive, magnetic test switch. Micro-controller diagnostic system tests, detects and indicates battery, charger circuitry or MR16 lamp failures.
- Wall, strut or beam mounting.
- UL Listed. Certified to meet UL924 standards, 90 minutes of emergency operation, NEMA-4X rated for high abuse areas, wet locations and cold weather (-40°C/-40°F) applications, NSF Certified for use in food processing plants.
- 3-year full warranty, excluding lamps and fuses.



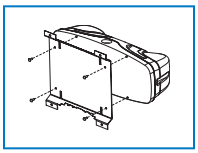
Optional Features

Description	Add Suffix
Cold weather location (-40°C to +40°C) (-40°F to +104°F)	-CW4*

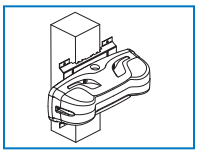
*Only available 12SV24M and 12SV36M Lead-Calcium battery.

Accessories (order as a separate item)

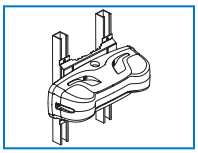
Additional bit for tamperproof screws	TPB
Universal bracket (for mounting on poles, I-beams or strut metal framing)	PMK-E



PMK KIT
(screws included)



BEAM MOUNTING



STRUT MOUNTING

Unit Rating Chart

Unit Equipment – WITH REMOTE capability				
Sealed Maintenance-Free Battery Types	**Watts to 87½% of rated battery voltage***			
	1½ hrs.	**2 hrs.**	**3 hrs.**	**4 hrs.**
Lead-Calcium	18	12	–	–
	24	16	12	–
	36	24	20	14
	54	36	27	20
Nickel Cadmium	24	18	12	–
	40	30	20	15
Nickel Metal Hydride	60	45	30	20

*National Electrical Code Specification

How to Order (example)

B	12SV36M	-2	MK	-D	
Color **B**= Black **G**= Gray **W**= White	Series **SV18M**= 6V-18W, Lead-Calcium **12SV24M**= 12V-24W, Lead-Calcium **12SV36M**= 12V-36W, Lead-Calcium **12SV54M**= 12V-54W, Lead-Calcium **12SV24N**= 12V-24W, Nickel-Cadmium **12SV40N**= 12V-40W, Nickel-Cadmium **12SV60H**= 12V-60W, NIMH	# of Heads **-2**= 2 heads	Lamps **LG**= LED 12V-4W **MI**= 6V-6W, MR16 **MK**= 12V-12W, MR16 **MW**= 12V-20W, MR16-IR	Charger **-D**= Autodiagnostic Non-Audible (standard) **-DA**= Autodiagnostic Audible	Options **Blank**= No Options **CW4**= Cold Weather* (-40°C to +40°C) (-40°F to +104°F) *Only available with 12SV24M & 12SV36M

EMERGI-LITE

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Survive-All™ EF39 Series

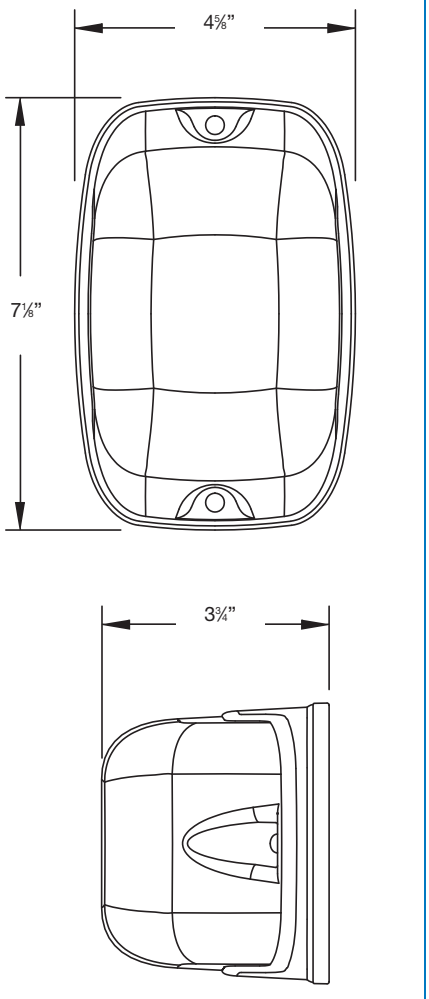
NSF & NEMA-4X Certified Remote Fixture

PATENT PENDING

NEMA-4X

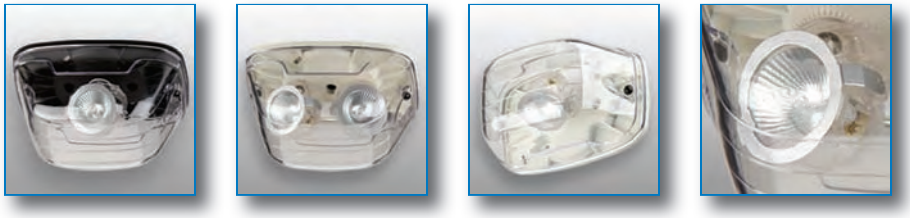
Outline and Dimensions

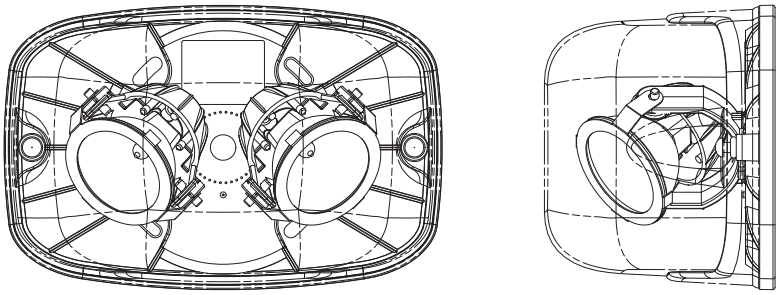
Dimensions are approximate and subject to change.



Standard Features

- Available in single or double lamp configurations with the option of highly efficient MR 16 lamps or the 4-Watt MR16 white LED lamp.
- Delivers amazing path of egress illumination – up to 70 feet, center-to-center when using 2-20W MR16-IR lamps.
- Fully gasketed cast aluminum back plate with a clear UV and impact resistant cover.
- Choice of three colors: off-white, black or gray.
- Comes standard with tamper-proof screws and bit.
- Easy installation on a four-inch octagonal box.
- NEMA-4X rated, NSF Certified for food processing plants.





How to Order (example)

EF39	(MK)	
Series **EF39**= single NEMA 4X **EF39D**= double NEMA 4X	Lamp Type/Wattage **(MI)**= MR16, 6V-6W **(MJ)**= MR16, 6V-10W **(MK)**= MR16, 12V-12W **(MW)**= MR16, 12V-20W-IR **(MS)**= MR16, 24V-12W **(MD)**= MR16, 24V-20W **(LG)**= LED 12V-4W	Color **Blank**= white **-BK**= black **-GY**= gray

Survive-All™ SVX Combo Series

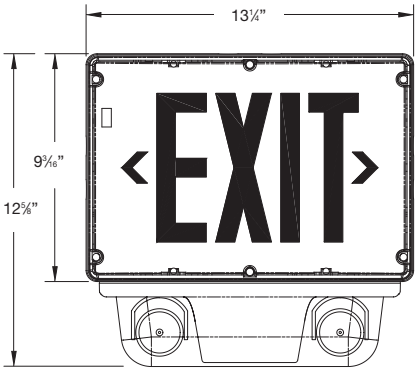
6 and 12 Volt NSF & NEMA-4X Certified Combo Units

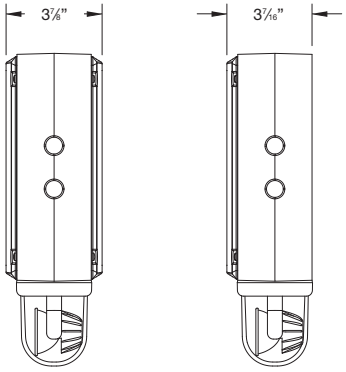
PATENT PENDING

NEMA-4X

Outline and Dimensions

Dimensions are approximate and subject to change.





DOUBLE FACE SINGLE FACE

Standard Features

- Fully field-adjustable lamp head assembly offers the option of selecting either an MR16 lamp or a high efficiency 4-Watt, white LED light source for optimum illumination over the path of egress. Exit light source LED. Red LED's of ALINGAP technology.
- Rugged PVC body will not dent, peel or corrode. The sealed faceplate is constructed with a heavy duty, vandal-resistant polycarbonate cover and fastened with stainless steel tamper-resistant screws.
- Available with sealed, maintenance-free Nickel-Cadmium batteries.
- PulsePlus Charger circuitry offers 120/277 volt input 60 Hz., 0.3/0.15 Amps (other inputs available), fused output circuit(s), dual diagnostic indicator lights, temperature compensated charger, sealed relay, low voltage battery disconnect, brownout protection and lockout (automatic battery connect). Magnetically operated test switch.
- Can be wall, end or ceiling mounted.
- NEMA 4X Rated. NSF Certified. UL Listed. Listed for wet and damp locations (+10°C/+40°C).
- 5-year full warranty, excluding lamps and fuses.

Optional Features

Description	Add Suffix
Cold weather location (-40°C to +25°C) (-40°F to +77°F)	-CW4*
Fire alarm activated flasher	-FA
Flasher/Buzzer (AC power failure)	-F/B**
Flasher (AC power failure)	-FL
Canopy Pendant Mount	-CM

*Available in 12N1 version only. **Not available with DA option.

Accessories (order as a separate item)

Additional special bit for tamper-proof screws ..... TPB

Power Consumption Chart

Unit	AC Specs		DC Specs (90 minutes)	
SVX12N	120/277Vac	0.12/0.06A 13W	6V	12W
SVX24N	120/277Vac	0.17/0.08A 19W	12V	24W

Unit Rating Chart

Furnished standard with two 9 watt High Intensity Incandescent lamps.

Unit Equipment – WITH REMOTE capability				
Sealed Maintenance-Free Battery Types	Watts to 87½% of rated battery voltage*			
	1½ hrs.	2 hrs.	3 hrs.	4 hrs.
Nickel Cadmium	12	9	–	–
	24	18	12	–

*National Electrical Code Specification

How to Order (example)

WW	SVX	12N	1	R	DA	4X	2	MI	CW4
Housing/Face Color **WW**=White/White **WB**=White/Black **WA**=White/Aluminum **BB**=Black/Black **BW**=Black/White **BA**=Black/Aluminum **GA**=Gray/Aluminum **GW**=Gray/White **GB**=Gray/Black	Series **SVX**	Capacity **12N**=6V-12W **24N**=12V-24W	Faces **1**=Single Face **2**=Double Face	Letter Color **R**=Red Letters **G**=Green Letters	Diagnostics **D**=Advanced Diagnostics Non-audible (standard) **DA**= Advanced Diagnostics Audible	Housing **4X**=Nema 4X	# of Heads **Blank**=0 Heads* **2**=Two Heads *Remote lamp(s) must be connected	Lamp/ Wattage **MI**=MR16, 6V-6W **MK**= MR16, 12V-12W **LG**= LED, 12V-4W	Options **CW4**=Cold Weather* **FA**=Flasher (fire alarm activated) **F/B**=Flasher/Buzzer (AC power failure)** **FL**=Flasher (A.C. power failure) **-208V**=208Vac, 60Hz input*** **-240V**=240Vac, 60Hz input*** **-220V50HZ**= 220Vac, 50Hz input*** *Available in 12N1 version only. **Not available with "AD" option. ***Not UL Approved.

NOTE: Test magnet# 199.0133-E

EMERGI-LITE

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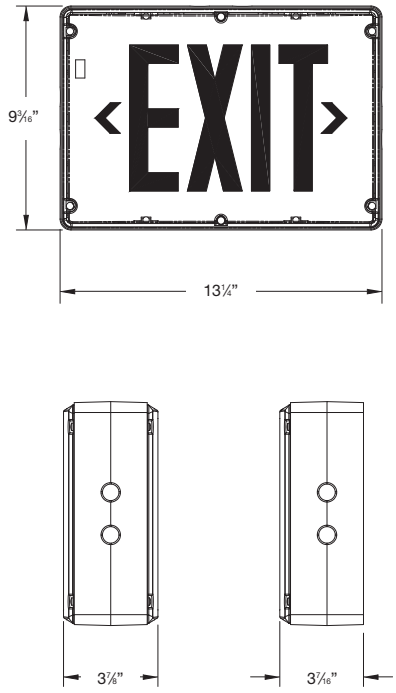
Survive-All™ SVX Series

NSF & NEMA-4X Certified Exit Sign

Outline and Dimensions

Dimensions are approximate and subject to change.



Standard Features

- Rugged PVC body will not dent, peel or corrode. The sealed faceplate is constructed with a heavy duty, vandal-resistant polycarbonate cover and fastened with stainless steel tamper-resistant screws.
- Available with sealed, maintenance-free Nickel-Cadmium batteries.
- PulsePlus Charger circuitry offers 120/277 volt input 60 Hz., 0.3/0.15 Amps (other inputs available), fused output circuit(s), dual diagnostic indicator lights, temperature compensated charger, sealed relay, low voltage battery disconnect, brownout protection and lockout (automatic battery connect). Magnetically operated test switch.
- Can be wall, end or ceiling mounted.
- NEMA 4X Rated. NSF Certified. UL Listed. Listed for wet and damp locations (+10°C/+40°C).
- 5-year full warranty.

Optional Features

Description	Add Suffix
AC/DC (6-48Vdc)	-DC
Cold Weather (-20°C)(-4°F) (Self-Powered)	-CW
2 Circuit (120/120 or 277/277)	-2CKT*
Fire Alarm Activated Flasher (Self-Powered Only)	-FA
Flasher/Buzzer (Self-Powered Only)	-FB
Canopy Pendant Mount	-CM
Special Wording (Contact Factory)	

* AC Units only.

Accessories (order as a separate item)

Tamper-Proof Bit	part # 690.0454-E
Convert single to double face, red	DFKR
Convert single face to double face, green	DFKG

High Performance Circuitry

- Self Contained – Batteries and circuitry located inside the exit housing.
- Continuous self-diagnostic monitoring and monthly self testing.
- Fully automatic charger is solid state.
- AC, AC/DC and Self-Powered Models have universal, 2-wire input 120V to 277Vac 50/60 Hz.
- Sealed, maintenance-free Nickel-Cadmium battery provides 90 minutes of emergency operation.
- Batteries recharge per UL924 requirements.
- Each unit comes standard with one tamper-proof driver bit. To order extra: part #690.0454

Power Consumption

Model	AC Specs		DC Specs	
AC-only	120 to 277 Vac	1.2 W	–	–
AC/DC	120 to 277 Vac	1.2 W	6 to 24Vdc	Less than 1.5 W
Self-powered	120 to 277 Vac	3.7 W	NiCad battery	Min. 90 minutes

How to Order (example)

BB	SVXN	1	R	-D	-4X	-FA
Color Option, Housing/Face **BB**= Black/Black **BW**= Black/White **BA**= Black/Aluminum **GB**= Gray/Black **GW**= Gray/White **GA**= Gray/Aluminum **WB**= White/Black **WW**= White/White **WA**= White/Aluminum	Series (120/277 Volt) **SVX**= AC-only **SVXN**= Self-powered Nickel-Cadmium Battery	Faces **1**= Single face **2**= Double face	Legend colors **R**= Red **G**= Green	Diagnostics Standard on all self-powered Models	Housing NEMA 4X housing standard	Options See Optional Features

EMERGI-LITE

Thomas&Betts

Survive-All™ Series

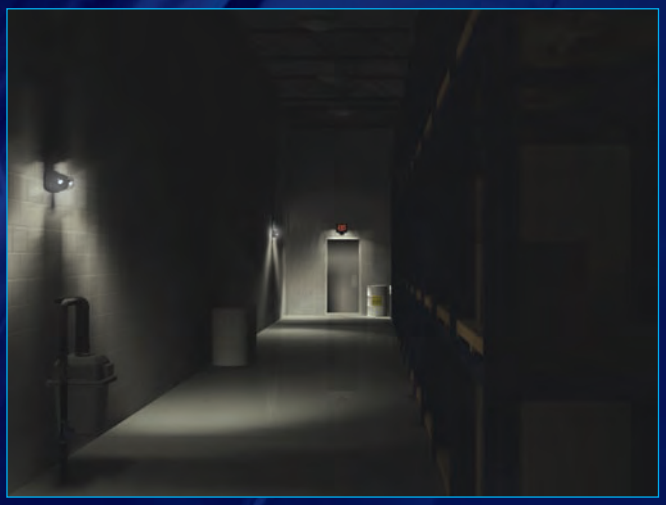
Photometrics

The Emergi-lite NEMA-4X Series of emergency lighting sets an impressive new standard for center-to-center path of egress illumination.

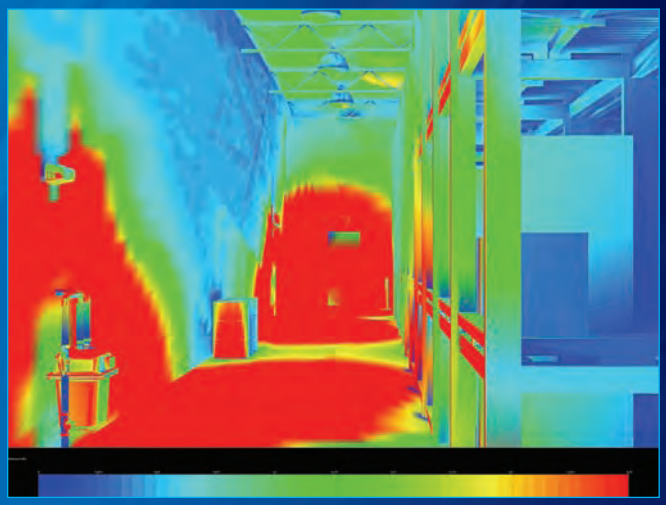
Battery units and remote fixtures illuminate an egress path 70-feet long, center-to-center, and 3-feet wide (using 2-20W MR16 lamps).

Photometric data based on a 7.5-foot mounting height, minimum 80-50-20 reflectance values and 12V 20W lamps.

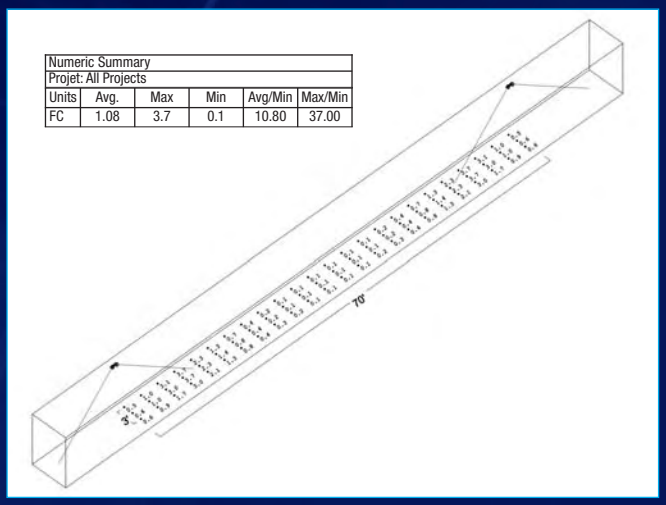
3D image showing installation of two SV Series battery units and a SVX combo unit in an industrial application under normal lighting conditions.



3D image lighting rendering showing installation of two SV Series battery units and a SVX combo unit in an industrial application under emergency lighting conditions.



3D light level colored scale image showing egress illumination pattern generated by two SV Series battery units and a SVX combo unit.



ISO curve on a point-by-point grid of two SV Series battery units with 2-20W MR16 lamps per unit.

NOTE: Photometric results shown are based on a simulation using the AGI32 software with a 1 foot-candle average and 0.1 foot-candle minimum with a 40:1 maximum-minimum ratio. Emergi-Lite assumes no responsibility for local requirements or specific project variables. This is a guideline to be used as a design aid, not a guarantee of any code compliances.

Thomas&Betts

EMERGI-LITE

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