Korenix Industrial Product Selection Guide - SFP 100Mbps / SFP 100Mbps with DDM




	SFP100MM SFP100MM-w	SFP100MM5 SFP100MM5-w	SFP100SM30 SFP100SM30-w	SFP100SM60 SFP100SM60-w
	100Mbps SFP for JetNet 5828G / 5628G / 6059G / 5010G / 4518 / 4510 / 4010			
	SFP100MMD SFP100MMD-w	SFP100MM5D SFP100MM5D-w	SFP100SM30D SFP100SM30D-w	SFP100SM60D SFP100SM60D-w
	100Mbps SFP with DDM for JetNet 6059G / 5010G / 4510			
Fiber Transceiver & Application	Multi-mode Fast Ethernet / 2KM	Multi-mode Fast Ethernet / 5KM	Single-mode Fast Ethernet / 30KM	Single-mode Fast Ethernet / 60KM
Wave-length	1310nm	1310nm	1310nm	1310nm
Tx Power	-20dBm(Min)~ -14dBm(Max)	-9dBm(Min)~ -0dBm(Max)	-15dBm(Min)~ -8dBm(Max)	-5dBm(Min)~ -0dBm(Max)
Rx Sensitivity	-8dBm ~ -31dBm(Max)	-8dBm ~ -30dBm(Max)	0dBm ~ -34dBm(Max)	0dBm ~ -35dBm(Max)
Link budget	11dB	21dB	19dB	30dB
Connector	Duplex LC	Duplex LC	Duplex LC	Duplex LC
Operation Temperature	-10°C~70°C -40°C~85°C (W)	-10°C~70°C -40°C~85°C (W)	-10°C~70°C -40°C~85°C (W)	-10°C~70°C -40°C~85°C (W)
Storage Temperature	-40°C~85°C	-40°C~85°C	-40°C~85°C	-40°C~85°C
Operating Humidity	85%	85%	85%	85%



	SFP100SM80 SFP100SM80-w	SFP100SM100 SFP100SM100-w	SFP100SM120 SFP100SM120-w
	100Mbps SFP for JetNet 5828G / 5628G / 6059G / 5010G / 4518 / 4510 / 4010		
	SFP100SM80D SFP100SM80D-w	SFP100SM100D SFP100SM100D-w	SFP100SM120D SFP100SM120D-w
	100Mbps SFP with DDM for JetNet 6059G / 5010G / 4510		
Fiber Transceiver & Application	Single-mode Fast Ethernet / 80KM	Single-mode Fast Ethernet / 100KM	Single-mode Fast Ethernet / 120KM
Wave-length	1310nm	1550nm	1550nm
Tx Power	0dBm(Min)~ 5dBm(Max)	-5dBm(Min)~ 0dBm(Max)	0dBm(Min)~ 5dBm(Max)
Rx Sensitivity	0dBm ~ -36dBm(Max)	0dBm ~ -35dBm(Max)	0dBm ~ -35dBm(Max)
Link budget	36dB	30dB	35dB
Connector	Duplex LC	Duplex LC	Duplex LC
Operation Temperature	-10°C~70°C -40°C~85°C (W)	-10°C~70°C -40°C~85°C (W)	-10°C~70°C -40°C~85°C (W)
Storage Temperature	-40°C~85°C	-40°C~85°C	-40°C~85°C
Operating Humidity	85%	85%	85%

- All product specifications are subject to change without further notice.
- Before applying to critical projects, please contact Korenix headquarter for up-to-date product specifications' consultancy.

Korenix Industrial Product Selection Guide - SFP 100Mbps BIDI / WDM/ SFP 100Mbps BIDI / WDM with DDM

			
	SFP100SM20B13 SFP100SM20B13-w	SFP100SM20B15 SFP100SM20B15-w	SFP100SM40B13 SFP100SM40B13-w
	100Mbps SFP for JetNet 5828G / 5628G / 6059G / 5010G / 4518 / 4510 / 4010		
	SFP100SM20B13D SFP100SM20B13D-w	SFP100SM20B15D SFP100SM20B15D-w	SFP100SM40B13D SFP100SM40B13D-w
	100Mbps SFP with DDM for JetNet 6059G / 5010G / 4510		
Fiber Transceiver & Application	Single-mode 100Mbps BIDI/WDM, 20km	Single-mode 100Mbps BIDI/WDM, 20km	Single-mode 100Mbps BIDI/WDM, 40km
Wave-length	TX 1310nm, RX 1550nm	TX 1550nm, RX 1310nm	TX 1310nm, RX 1550nm
Tx Power	-14dBm(Min)~ -8dBm(Max)	-14dBm(Min)~ -8dBm(Max)	-8dBm(Min)~ 0dBm(Max)
Rx Sensitivity	0dBm ~ -32dBm(Max)	0dBm ~ -32dBm(Max)	0dBm ~ -34dBm(Max)
Link budget	18dB	18dB	26dB
Connector	Simplex LC	Simplex LC	Simplex LC
Operation Temperature	-10°C~70°C -40°C~85°C (W)	-10°C~70°C -40°C~85°C (W)	-10°C~70°C -40°C~85°C (W)
Storage Temperature	-40°C~85°C	-40°C~85°C	-40°C~85°C
Operating Humidity	85%	85%	85%

			
	SFP100SM40B15 SFP100SM40B15-w	SFP100SM60B13 SFP100SM60B13-w	SFP100SM60B15 SFP100SM60B15-w
	100Mbps SFP for JetNet 5828G / 5628G / 6059G / 5010G / 4518 / 4510 / 4010		
	SFP100SM40B15D SFP100SM40B15D-w	SFP100SM60B13D SFP100SM60B13D-w	SFP100SM60B15D SFP100SM60B15D-w
	100Mbps SFP with DDM for JetNet 6059G / 5010G / 4510		
Fiber Transceiver & Application	Single-mode 100Mbps BIDI/WDM, 40km	Single-mode 100Mbps BIDI/WDM, 60km	Single-mode 100Mbps BIDI/WDM, 60km
Wave-length	TX 1550nm, RX 1310nm	TX 1310nm, RX 1550nm	TX 1550nm, RX 1310nm
Tx Power	-8dBm(Min)~ 0dBm(Max)	-5dBm(Min)~ 0dBm(Max)	-5dBm(Min)~ 0dBm(Max)
Rx Sensitivity	0dBm ~ -34dBm(Max)	0dBm ~ -34dBm(Max)	0dBm ~ -34dBm(Max)
Link budget	26dB	29dB	29dB
Connector	Simplex LC	Simplex LC	Simplex LC
Operation Temperature	-10°C~70°C -40°C~85°C (W)	-10°C~70°C -40°C~85°C (W)	-10°C~70°C -40°C~85°C (W)
Storage Temperature	-40°C~85°C	-40°C~85°C	-40°C~85°C
Operating Humidity	85%	85%	85%

Korenix Industrial Product Selection Guide - SFP 100Mbps / SFP 100Mbps with DDM

			
	SFPGSX SFPGSX-w	SFPGSX2 SFPGSX2-w	SFPGLX10 SFPGLX10-w
	Gigabit SFP for JetNet 5728G series / 6524G / 5828G / 5628G / 5428G / 6059G / 5018G / 5012G / 5010G / 5010G-P / 3018G / 3010G / JetCon 3401G		
	SFPGSXD SFPGSXD-w	SFPGSX2D SFPGSX2D-w	SFPGLX10D SFPGLX10D-w
	100Mbps SFP with DDM for JetNet 5828G / 5628G / 6059G / 5010G		
Fiber Transceiver & Application	Multi-mode 1000Base-SX, 550m	Multi-mode 1000Base-SX / 2KM	Single-mode 1000Base-LX / 10KM
Wave-length	850nm	1310nm	1310nm
Tx Power	-9.5dBm(Min)~ -4dBm(Max)	-9dBm(Min)~ -1dBm(Max)	-9.5dBm(Min)~ -3dBm(Max)
Rx Sensitivity	0dBm ~ -18dBm(Max)	-1dBm ~ -19dBm(Max)	-3dBm ~ -20dBm(Max)
Link budget	8.5dB	10dB	10.5dB
Connector	Duplex LC	Duplex LC	Duplex LC
Operation Temperature	-10°C~70°C -40°C~85°C (W)	-10°C~70°C -40°C~85°C (W)	-10°C~70°C -40°C~85°C (W)
Storage Temperature	-20°C~85°C	-40°C~85°C	-40°C~85°C
Operating Humidity	85%	85%	85%

			
	SFPGLHX30 SFPGLHX30-w	SFPGXD50 SFPGXD50-w	SFPGZX70 SFPGZX70-w
	Gigabit SFP for JetNet 5728G series / 6524G / 5828G / 5628G / 5428G / 6059G / 5018G / 5012G / 5010G / 5010G-P / 3018G / 3010G / JetCon 3401G		
	SFPGLHX30D SFPGLHX30D-w	SFPGXD50D SFPGXD50D-w	SFPGZX70D SFPGZX70D-w
	100Mbps SFP with DDM for JetNet 5828G / 5628G / 6059G / 5010G		
Fiber Transceiver & Application	Single-mode 1000Base-LHX / 30KM	Single-mode 1000Base-XD / 50KM	Single-mode 1000Base-ZX / 70KM
Wave-length	1310nm	1550nm	1550nm
Tx Power	-4dBm(Min)~ 1dBm(Max)	-4dBm(Min)~ 1dBm(Max)	0dBm(Min)~ 5dBm(Max)
Rx Sensitivity	-3dBm ~ -24dBm(Max)	-3dBm ~ -24dBm(Max)	-3dBm ~ -24dBm(Max)
Link budget	20dB	20dB	24dB
Connector	Duplex LC	Duplex LC	Duplex LC
Operation Temperature	-10°C~70°C -40°C~85°C (W)	-10°C~70°C -40°C~85°C (W)	-10°C~70°C -40°C~85°C (W)
Storage Temperature	-40°C~85°C	-40°C~85°C	-40°C~85°C
Operating Humidity	85%	85%	85%

Korenix Industrial Product Selection Guide - SFP Gigabit BIDI / WDM / SFP Gigabit BIDI / WDM with DDM

				
	SFPGLX10B13 SFPGLX10B13-w	SFPGLX10B15 SFPGLX10B15-w	SFPGLX20B13 SFPGLX20B13-w	SFPGLX20B15 SFPGLX20B15-w
	Gigabit BIDI SFP Special Order for JetNet 5728G series / 6524G / 5828G / 5628G / 5428G / 6059G / 5018G / 5012G / 5010G / 5010G-P / 3018G / 3010G / JetCon 3401G			
	SFPGLX10B13D SFPGLX10B13D-w	SFPGLX10B15D SFPGLX10B15D-w	SFPGLX20B13D SFPGLX20B13D-w	SFPGLX20B15D SFPGLX20B15D-w
	Gigabit SFP with DDM for JetNet 5828G / 5628G/ 6059G / 5010G			
Fiber Transceiver & Application	Single-mode 1000Base-LX / 10KM	Single-mode 1000Base-LX / 10KM	Single-mode 1000Base-LX / 20KM	Single-mode 1000Base-LX / 20KM
Wave-length	TX 1310nm, RX 1550nm	TX 1550nm, RX 1310nm	TX 1310nm, RX 1550nm	TX 1550nm, RX 1310nm
Tx Power	-9dBm(Min)~ -3dBm(Max)	-9dBm(Min)~ -3dBm(Max)	-8dBm(Min)~ -2dBm(Max)	-8dBm(Min)~ -2dBm(Max)
Rx Sensitivity	-1dBm ~ -21dBm(Max)	-1dBm ~ -21dBm(Max)	-1dBm ~ -23dBm(Max)	-1dBm ~ -23dBm(Max)
Link budget	12dB	12dB	15dB	15dB
Connector	Simplex LC	Simplex LC	Simplex LC	Simplex LC
Operation Temperature	-10°C~70°C -40°C~85°C (W)	-10°C~70°C -40°C~85°C (W)	-10°C~70°C -40°C~85°C (W)	-10°C~70°C -40°C~85°C (W)
Storage Temperature	-40°C~85°C	-40°C~85°C	-40°C~85°C	-40°C~85°C
Operating Humidity	85%	85%	85%	85%

				
	SFPGLX40B13 SFPGLX40B13-w	SFPGLX40B15 SFPGLX40B15-w	SFPGLX60B13	SFPGLX60B15
	Gigabit BIDI SFP Special Order for JetNet 5728G series / 6524G / 5828G / 5628G / 5428G / 6059G / 5018G / 5012G / 5010G / 5010G-P / 3018G / 3010G / JetCon 3401G			
	SFPGLX40B13D SFPGLX40B13D-w	SFPGLX40B15D SFPGLX40B15D-w	SFPGLX60B13D	SFPGLX60B15D
	Gigabit SFP with DDM for JetNet 5828G / 5628G/ 6059G / 5010G			
Fiber Transceiver & Application	Single-mode 1000Base-LX / 40KM	Single-mode 1000Base-LX / 40KM	Single-mode 1000Base-LX / 60KM	Single-mode 1000Base-LX / 60KM
Wave-length	TX 1310nm, RX 1550nm	TX 1550nm, RX 1310nm	TX 1310nm, RX 1550nm	TX 1550nm, RX 1310nm
Tx Power	-3dBm(Min)~ 2dBm(Max)	-3dBm(Min)~ 2dBm(Max)	-2dBm(Min)~ 4dBm(Max)	-2dBm(Min)~ 4dBm(Max)
Rx Sensitivity	-1dBm ~ -23dBm(Max)	-1dBm ~ -23dBm(Max)	-1dBm ~ -25dBm(Max)	-1dBm ~ -25dBm(Max)
Link budget	20dB	20dB	23dB	23dB
Connector	Simplex LC	Simplex LC	Simplex LC	Simplex LC
Operation Temperature	-10°C~70°C -40°C~85°C (W)	-10°C~70°C -40°C~85°C (W)	-10°C~70°C	-10°C~70°C
Storage Temperature	-40°C~85°C	-40°C~85°C	-40°C~85°C	-40°C~85°C
Operating Humidity	85%	85%	85%	85%

- Universal AC input/Full range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- UL 508(industrial control equipment)approved
- LED indicator for power on
- 100% full load burn-in test
- Fix switching frequency at 100KHz
- 3 years warranty

SPECIFICATION

MODEL		DR-4524
OUTPUT	DC VOLTAGE	24V
	RATED CURRENT	2A
	CURRENT RANGE	0 ~ 2A
	RATED POWER	48W
	RIPPLE & NOISE (max.) Note.2	480mVp-p
	VOLTAGE ADJ. RANGE	21.6 ~ 26.4V
	VOLTAGE TOLERANCE Note.3	± 1.0%
	LINE REGULATION	± 1.0%
	LOAD REGULATION	± 1.0%
	SETUP, RISE TIME	800ms, 60ms/230VAC at full load
	HOLD UP TIME (Typ.)	100ms/230VAC at full load
INPUT	VOLTAGE RANGE	85 ~ 264VAC 120 ~ 370VDC
	FREQUENCY RANGE	47 ~ 63Hz
	EFFICIENCY (Typ.)	80%
	AC CURRENT (Typ.)	1.5A/115VAC 0.75A/230VAC
	INRUSH CURRENT (Typ.)	COLD START 28A/115VAC 56A/230VAC
	LEAKAGE CURRENT	<1mA / 240VAC
PROTECTION	OVERLOAD	105 ~ 150% rated output power
		Protection type : Constant current limiting, recovers automatically after fault condition is removed
	OVER VOLTAGE	27.6 ~ 32.4V
		Protection type : Shut off o/p voltage, clamping by zener diode
	OVER TEMPERATURE	Tj 135℃ typically (U1) detect on heat sink of power transistor
		Protection type : Shut down o/p voltage, re-power on to recover
ENVIRONMENT	WORKING TEMP.	-10 ~ +50℃ (Refer to output load derating curve)
	WORKING HUMIDITY	20 ~ 90% RH non-condensing
	STORAGE TEMP., HUMIDITY	-20 ~ +85℃, 10 ~ 95% RH
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL508, TUV EN60950-1 approved
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC
	EMI CONDUCTION & RADIATION	Compliance to EN55011,EN55022 (CISPR22) Class B
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, EN55024, EN61000-6-2 (EN50082-2), heavy industry level, criteria A
OTHERS	MTBF	364.6K hrs min. MIL-HDBK-217F (25℃)
	DIMENSION	93*78*67mm (L*W*H)
	PACKING	0.31Kg; 48pcs/16.1Kg/1.3CUFT
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.	

- Universal AC input / Full range
- Protections:Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- UL 508(industrial control equipment)approved
- LED indicator for power on
- 100% full load burn-in test
- Fix switching frequency at 50KHz
- 3 years warranty

SPECIFICATION

MODEL		DR-75-24	DR-75-48
OUTPUT	DC VOLTAGE	24V	48V
	RATED CURRENT	3.2A	1.6A
	CURRENT RANGE	0 ~ 3.2A	0 ~ 1.6A
	RATED POWER	76.8W	76.8W
	RIPPLE & NOISE (max.) Note.2	150mVp-p	240mVp-p
	VOLTAGE ADJ. RANGE	24 ~ 28V	48 ~ 53V
	VOLTAGE TOLERANCE Note.3	± 1.0%	± 1.0%
	LINE REGULATION	± 0.5%	± 0.5%
	LOAD REGULATION	± 1.0%	± 1.0%
	SETUP, RISE TIME	1000ms, 60ms/230VAC 1800ms, 60ms/115VAC at full load	
	HOLD UP TIME (Typ.)	60ms/230VAC 12ms/115VAC at full load	
INPUT	VOLTAGE RANGE	85 ~ 264VAC 120 ~ 370VDC	
	FREQUENCY RANGE	47 ~ 63Hz	
	EFFICIENCY (Typ.)	80%	81%
	AC CURRENT (Typ.)	1.6A/115V 0.96A/230V	
	INRUSH CURRENT (Typ.)	COLD START 20A/115VAC 40A/230VAC	
	LEAKAGE CURRENT	<1mA / 240VAC	
PROTECTION	OVERLOAD	105 ~ 150% rated output power	
		Protection type : Constant current limiting, recovers automatically after fault condition is removed	
	OVER VOLTAGE	29 ~ 34V	58 ~ 65V
		Protection type : Shut down o/p voltage, re-power on to recover	
	OVER TEMPERATURE	85℃ ~ 5 ℃ (TSW1) detect on heat sink of power transistor	
		Protection type : Shut down o/p voltage, recovers automatically after temperature goes down	
ENVIRONMENT	WORKING TEMP.	-10 ~ +60℃ (Refer to output load derating curve)	
	WORKING HUMIDITY	20 ~ 90% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-20 ~ +85℃, 10 ~ 95% RH	
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)	
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6	
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL508, TUV EN60950-1 approved	
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC	
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC	
	EMI CONDUCTION & RADIATION	Compliance to EN55011,EN55022 (CISPR22) Class B	
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3	
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, EN55024, EN61000-6-2 (EN50082-2), heavy industry level, criteria A	
OTHERS	MTBF	123.1K hrs min. MIL-HDBK-217F (25℃)	
	DIMENSION	55.5*125.2*100mm (W*H*D)	
	PACKING	0.6Kg; 20pcs/13Kg/1.29CUFT	
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.		

- AC input range selectable by switch
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- UL 508(industrial control equipment)approved
- LED indicator for power on
- 100% full load burn-in test
- Fixed switching frequency at 55KHz
- 3 years warranty

SPECIFICATION

MODEL		DR-120-24
OUTPUT	DC VOLTAGE	24V
	RATED CURRENT	5A
	CURRENT RANGE	0 ~ 5A
	RATED POWER	120W
	RIPPLE & NOISE (max.) Note.2	80mVp-p
	VOLTAGE ADJ. RANGE	24 ~ 28V
	VOLTAGE TOLERANCE Note.3	± 1.0%
	LINE REGULATION	± 0.5%
	LOAD REGULATION	± 1.0%
	SETUP, RISE TIME	500ms, 70ms/230VAC 500ms, 70ms/115VAC at full load
	HOLD UP TIME (Typ.)	36ms/230VAC 32ms/115VAC at full load
INPUT	VOLTAGE RANGE	88 ~ 132VAC/176 ~ 264VAC by switch 248 ~ 370VDC
	FREQUENCY RANGE	47 ~ 63Hz
	EFFICIENCY (Typ.)	84%
	AC CURRENT (Typ.)	2.6A/115VAC 1.6A/230VAC
	INRUSH CURRENT (Typ.)	COLD START 20A/115VAC 40A/230VAC
	LEAKAGE CURRENT	<3.5mA / 240VAC
PROTECTION	OVERLOAD	105 ~ 150% rated output power
		Protection type : Constant current limiting, recovers automatically after fault condition is removed
	OVER VOLTAGE	29 ~ 33V
		Protection type : Shut down o/p voltage, re-power on to recover
	OVER TEMPERATURE	90℃±5℃(TSW1)
		Protection type : Shut down o/p voltage, recovers automatically after temperature goes down
ENVIRONMENT	WORKING TEMP.	-10 ~ +60℃ (Refer to output load derating curve)
	WORKING HUMIDITY	20 ~ 90% RH non-condensing
	STORAGE TEMP., HUMIDITY	-20 ~ +85℃, 10 ~ 95% RH
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL508, UL60950-1, TUV EN60950-1 approved
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC
	EMI CONDUCTION & RADIATION	Compliance to EN55011,EN55022 (CISPR22) Class B
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, EN55024, EN61000-6-2 (EN50082-2), heavy industry level, criteria A
OTHERS	MTBF	136.8Khrs min. MIL-HDBK-217F (25℃)
	DIMENSION	65.5*125.2*100mm (W*H*D)
	PACKING	0.79Kg; 20pcs/16.5Kg/1.29CUFT
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.	

- Universal AC input / Full range
- Built in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- UL 508(industrial control equipment)approved
- LED indicator for power on
- 100% full load burn-in test
- Fixed switching frequency at 100KHz
- 3 years warranty

SPECIFICATION

MODEL		DRP-240-24
OUTPUT	DC VOLTAGE	24V
	RATED CURRENT	10A
	CURRENT RANGE	0 ~ 10A
	RATED POWER	240W
	RIPPLE & NOISE (max.) Note.2	80mVp-p
	VOLTAGE ADJ. RANGE	24 ~ 28V
	VOLTAGE TOLERANCE Note.3	± 1.0%
	LINE REGULATION	± 0.5%
	LOAD REGULATION	± 1.0%
	SETUP, RISE TIME	800ms, 40ms/230VAC 800ms, 40ms/115VAC at full load
	HOLD UP TIME (Typ.)	24ms/230VAC 24ms/115VAC at full load
INPUT	VOLTAGE RANGE Note.5	85 ~ 264VAC 120 ~ 370VDC
	FREQUENCY RANGE	47 ~ 63Hz
	POWER FACTOR (Typ.)	0.96/230VAC 0.99/115VAC at full load
	EFFICIENCY (Typ.)	84%
	AC CURRENT (Typ.)	2.8A/115VAC 1.4A/230VAC
	INRUSH CURRENT (Typ.)	COLD START 27A/115VAC 45A/230VAC
	LEAKAGE CURRENT	<3.5mA / 240VAC
PROTECTION	OVERLOAD	105 ~ 150% rated output power
		Protection type : Constant current limiting, recovers automatically after fault condition is removed
	OVER VOLTAGE	30 ~ 36V
		Protection type : Shut down o/p voltage, re-power on to recover
	OVER TEMPERATURE	100℃±5℃ (TSW1)detect on heat sink of power transistor
		Protection type : Shut down o/p voltage, recovers automatically after temperature goes down
ENVIRONMENT	WORKING TEMP.	-10 ~ +70℃ (Refer to output load derating curve)
	WORKING HUMIDITY	20 ~ 90% RH non-condensing
	STORAGE TEMP., HUMIDITY	-20 ~ +85℃, 10 ~ 95% RH
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL508, UL60950-1, TUV EN60950-1 approved
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC
	EMI CONDUCTION & RADIATION	Compliance to EN55011,EN55022 (CISPR22) Class B
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, EN55024, EN61000-6-2 (EN50082-2), heavy industry level, criteria A
OTHERS	MTBF	105.5Khrs min. MIL-HDBK-217F (25℃)
	DIMENSION	125.5*125.2*100mm (W*H*D)
	PACKING	1.2Kg; 12pcs/15.5Kg/1.29CUFT
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. 5. Derating may be needed under low input voltages. Please check the derating curve for more details.	

- AC input range selectable by switch
- Built-in passive PFC function compliance to EN61000-3-2
- High efficiency 89% and low dissipation
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- Can be installed on DIN rail TS-35/7.5 or 15
- UL 508(industrial control equipment)approved
- EN61000-6-2(EN50082-2) industrial immunity level
- 100% full load burn-in test
- 3 years warranty

SPECIFICATION

MODEL		DRP-480S-24
OUTPUT	DC VOLTAGE	24V
	RATED CURRENT	20A
	CURRENT RANGE	0 ~ 20A
	RATED POWER	480W
	RIPPLE & NOISE (max.) Note.2	120mVp-p
	VOLTAGE ADJ. RANGE	24 ~ 28V
	VOLTAGE TOLERANCE Note.3	±1.0%
	LINE REGULATION	±0.5%
	LOAD REGULATION	±1.0%
	SETUP, RISE TIME	1200ms, 40ms/230VAC,115VAC at full load
	HOLD UP TIME (Typ.)	23ms/230VAC,115VAC at full load
INPUT	VOLTAGE RANGE	90 ~ 132VAC/180 ~ 264VAC by switch 254 ~ 370VDC
	FREQUENCY RANGE	47 ~ 63Hz
	POWER FACTOR (Typ.)	≧0.7/230VAC only
	EFFICIENCY (Typ.)	89%
	AC CURRENT (Typ.)	8A/115VAC 3.2A/230VAC
	INRUSH CURRENT (Typ.)	COLD START 27A/115VAC 45A/230VAC
	LEAKAGE CURRENT	<3.5mA / 240VAC
PROTECTION	OVERLOAD	105 ~ 150% rated output power
		Protection type : Constant current limiting, recovers automatically after fault condition is removed
	OVER VOLTAGE	30 ~ 36V
		Protection type : Shut down o/p voltage, re-power on to recover
	OVER TEMPERATURE	100℃±5℃ (TSW : Detect on heatsink of power switch)
		Protection type : Shut down o/p voltage, recovers automatically after temperature goes down
ENVIRONMENT	WORKING TEMP.	-20 ~ +70℃ (Refer to output load derating curve)
	WORKING HUMIDITY	20 ~ 90% RH non-condensing
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)
	VIBRATION	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL508, UL60950-1, TUV EN60950-1 Approved
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC
	EMI CONDUCTION & RADIATION	Compliance to EN55011 (CISPR11), EN55022 (CISPR22), EN61204-3 Class B
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61204-3, EN61000-6-2 (EN50082-2) Heavy industry level, criteria A
OTHERS	MTBF	187.9Khrs min. MIL-HDBK-217F (25℃)
	DIMENSION	227*125.2*100mm (W*H*D)
	PACKING	2.6Kg; 6pcs / 16.6Kg / 1.75CUFT
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.	

- Universal AC input/Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- NEC class 2 / LPS compliant
- Built in DC OK active signal
- LED indicator for power on
- No load power consumption<0.75W
- 100% full load burn-in test
- 3 years warranty

SPECIFICATION

MODEL		MDR-20-24
OUTPUT	DC VOLTAGE	24V
	RATED CURRENT	1A
	CURRENT RANGE	0 ~ 1A
	RATED POWER	24W
	RIPPLE & NOISE (max.) Note.2	150mVp-p
	VOLTAGE ADJ. RANGE	21.6 ~ 26.4V
	VOLTAGE TOLERANCE Note.3	± 1.0%
	LINE REGULATION	± 1.0%
	LOAD REGULATION	± 1.0%
	SETUP, RISE TIME Note.5	500ms, 30ms/230VAC 1000ms, 30ms/115VAC at full load
	HOLD UP TIME (Typ.)	50ms/230VAC 20ms/115VAC at full load
INPUT	VOLTAGE RANGE	85 ~ 264VAC 120 ~ 370VDC
	FREQUENCY RANGE	47 ~ 63Hz
	EFFICIENCY (Typ.)	84%
	AC CURRENT (Typ.)	0.55A/115VAC 0.35A/230VAC
	INRUSH CURRENT (Typ.)	COLD START 20A/115VAC 40A/230VAC
	LEAKAGE CURRENT	<1mA / 240VAC
PROTECTION	OVERLOAD	105 ~ 160% rated output power
		Protection type : Constant current limiting, recovers automatically after fault condition is removed
	OVER VOLTAGE	27.6 ~ 32.4V
		Protection type : Shut down o/p voltage, re-power on to recover
FUNCTION	DC OK ACTIVE SIGNAL (max.)	18 ~ 27V / 20mA
ENVIRONMENT	WORKING TEMP.	-20 ~ +70℃ (Refer to output load derating curve)
	WORKING HUMIDITY	20 ~ 90% RH non-condensing
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)
	VIBRATION	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL508, TUV EN60950-1 approved, NEC class 2 / LPS compliant
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC
	EMI CONDUCTION & RADIATION	Compliance to EN55011,EN55022 (CISPR22), EN61204-3 Class B
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3
	EMS IMMUNITY	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, EN55024,EN61000-6-1,EN61204-3, light industry level, criteria A
OTHERS	MTBF	236.9K hrs min. MIL-HDBK-217F (25℃)
	DIMENSION	22.5*90*100mm (W*H*D)
	PACKING	0.19Kg; 72pcs/14.7Kg/0.91CUFT
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. 5. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.	

- Universal AC input/Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- NEC class 2 / LPS compliant (12V,24V,48V only)
- LED indicator for power on
- DC OK relay contact
- No load power consumption<0.75W
- 100% full load burn-in test
- 3 years warranty

SPECIFICATION

MODEL		MDR-40-24
OUTPUT	DC VOLTAGE	24V
	RATED CURRENT	1.7A
	CURRENT RANGE	0 ~ 1.7A
	RATED POWER	40.8W
	RIPPLE & NOISE (max.) Note.2	150mVp-p
	VOLTAGE ADJ. RANGE	24 ~ 30V
	VOLTAGE TOLERANCE Note.3	± 1.0%
	LINE REGULATION	± 1.0%
	LOAD REGULATION	± 1.0%
	SETUP, RISE TIME Note.5	500ms, 30ms/230VAC 500ms, 30ms/115VAC at full load
	HOLD UP TIME (Typ.)	50ms/230VAC 20ms/115VAC at full load
INPUT	VOLTAGE RANGE	85 ~ 264VAC 120 ~ 370VDC
	FREQUENCY RANGE	47 ~ 63Hz
	EFFICIENCY (Typ.)	88%
	AC CURRENT (Typ.)	1.1A/115VAC 0.7A/230VAC
	INRUSH CURRENT (Typ.)	COLD START 30A/115VAC 60A/230VAC
	LEAKAGE CURRENT	<1mA / 240VAC
PROTECTION	OVERLOAD	105 ~ 150% rated output power
		Protection type : Constant current limiting, recovers automatically after fault condition is removed
	OVER VOLTAGE	31.2 ~ 36V
		Protection type : Shut down o/p voltage, re-power on to recover
FUNCTION	DC OK SIGNAL	Relay contact rating(max.): 30V/1A resistive
ENVIRONMENT	WORKING TEMP.	-20 ~ +70℃ (Refer to output load derating curve)
	WORKING HUMIDITY	20 ~ 90% RH non-condensing
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)
	VIBRATION	Component : 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes ; Mounting : Compliance to IEC60068-2-6
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL508, UL60950-1, TUV EN60950-1 approved, NEC class 2 / LPS compliant (12V,24V,48V only)
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms/500VDC 25℃ 70%RH
	EMI CONDUCTION & RADIATION	Compliance to EN55011, EN55022 (CISPR22), EN61204-3 Class B
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3
	EMS IMMUNITY	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, EN55024, EN61000-6-2, EN61204-3, heavy industry level, criteria A
OTHERS	MTBF	301.7K hrs min. MIL-HDBK-217F (25℃)
	DIMENSION	40*90*100mm (W*H*D)
	PACKING	0.3Kg; 42pcs/13.6Kg/0.82CUFT
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. 5. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.	

- Universal AC input/Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- NEC class 2 / LPS compliant (24V,48V only)
- LED indicator for power on
- DC OK relay contact
- No load power consumption<0.75W
- 100% full load burn-in test
- 3 years warranty

SPECIFICATION

MODEL		MDR-60-24
OUTPUT	DC VOLTAGE	24V
	RATED CURRENT	2.5A
	CURRENT RANGE	0 ~ 2.5A
	RATED POWER	60W
	RIPPLE & NOISE (max.) Note.2	150mVp-p
	VOLTAGE ADJ. RANGE	24 ~ 30V
	VOLTAGE TOLERANCE Note.3	± 1.0%
	LINE REGULATION	± 1.0%
	LOAD REGULATION	± 1.0%
	SETUP, RISE TIME Note.5	500ms, 30ms/230VAC 500ms, 30ms/115VAC at full load
	HOLD UP TIME (Typ.)	50ms/230VAC 20ms/115VAC at full load
INPUT	VOLTAGE RANGE	85 ~ 264VAC 120 ~ 370VDC
	FREQUENCY RANGE	47 ~ 63Hz
	EFFICIENCY (Typ.)	88%
	AC CURRENT (Typ.)	1.8A/115VAC 1A/230VAC
	INRUSH CURRENT (Typ.)	COLD START 30A/115VAC 60A/230VAC
	LEAKAGE CURRENT	<1mA / 240VAC
PROTECTION	OVERLOAD	105 ~ 150% rated output power
		Protection type : Constant current limiting, recovers automatically after fault condition is removed
	OVER VOLTAGE	31.2 ~ 36V
		Protection type : Shut down o/p voltage, re-power on to recover
FUNCTION	DC OK SIGNAL	Relay contact rating(max.): 30V/1A resistive
ENVIRONMENT	WORKING TEMP.	-20 ~ +70℃ (Refer to output load derating curve)
	WORKING HUMIDITY	20 ~ 90% RH non-condensing
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)
	VIBRATION	Component : 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes ; Mounting : Compliance to IEC60068-2-6
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL508, UL60950-1, TUV EN60950-1 approved, NEC class 2 / LPS compliant (24V,48V only)
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms/500VDC 25℃ 70%RH
	EMI CONDUCTION & RADIATION	Compliance to EN55011, EN55022 (CISPR22), EN61204-3 Class B
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3
	EMS IMMUNITY	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, EN55024, EN61000-6-2, EN61204-3, heavy industry level, criteria A
OTHERS	MTBF	299.2K hrs min. MIL-HDBK-217F (25℃)
	DIMENSION	40*90*100mm (W*H*D)
	PACKING	0.33Kg; 42pcs/14.8Kg/0.82CUFT
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. 5. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.	

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- ZCS / ZVS technology to reduce power dissipation
- Cooling by free air convection
- Can be installed on DIN rail TS-35 / 7.5 or 15
- DC OK relay contact
- No load power consumption<1W
- NEC class 2, limited power source (for 24V,48V only)
- LED indicator for power on
- 100% full load burn-in test
- 3 years warranty

SPECIFICATION

MODEL		MDR-100-24	MDR-100-48
OUTPUT	DC VOLTAGE	24V	48V
	RATED CURRENT	4A	2A
	CURRENT RANGE	0 ~ 4A	0 ~ 2A
	RATED POWER	96W	96W
	RIPPLE & NOISE (max.) Note.2	150mVp-p	200mVp-p
	VOLTAGE ADJ. RANGE	24 ~ 30V	48 ~ 56V
	VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%
	LINE REGULATION	±1.0%	±1.0%
	LOAD REGULATION	±1.0%	±1.0%
	SETUP, RISE TIME Note.5	3000ms, 50ms/230VAC 3000ms, 50ms/115VAC at full load	
	HOLD UP TIME (Typ.)	50ms/230VAC 20ms/115VAC at full load	
INPUT	VOLTAGE RANGE Note.6	85 ~ 264VAC 120 ~ 370VDC	
	FREQUENCY RANGE	47 ~ 63Hz	
	POWER FACTOR (Typ.)	PF≧0.95/230VAC PF≧0.98/115VAC at full load	
	EFFICIENCY (Typ.)	86%	88%
	AC CURRENT (Typ.)	1.3A/115VAC 0.8A/230VAC	
	INRUSH CURRENT (Typ.)	COLD START 30A/115VAC 60A/230VAC	
	LEAKAGE CURRENT	<1mA / 240VAC	
PROTECTION	OVERLOAD	105 ~ 150% rated output power	
		Protection type : Constant current limiting, recovers automatically after fault condition is removed	
	OVER VOLTAGE	31.2 ~ 36V	57.6 ~ 64.8V
		Protection type : Shut down o/p voltage, re-power on to recover	
	OVER TEMPERATURE	90℃ ±10℃(RTH2) detect on heatsink of power transistor	
		Protection type : Shut down o/p voltage, re-power on to recover	
FUNCTION	DC OK SIGNAL	Relay contact rating(max.): 30V/1A resistive	
ENVIRONMENT	WORKING TEMP.	-10 ~ +60℃ (Refer to output load derating curve)	
	WORKING HUMIDITY	20 ~ 90% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH	
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)	
	VIBRATION	Component : 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes ; Mounting : Compliance to IEC60068-2-6	
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL508, TUV EN60950-1 approved, design refer to NEC CLASS 2 (for 24V,48V only)	
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC	
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms/500VDC 25℃ 70%RH	
	EMI CONDUCTION & RADIATION	Compliance to EN55011, EN55022 (CISPR22), EN61204-3 Class B	
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3	
	EMS IMMUNITY	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, EN55024, EN61000-6-2, EN61204-3, heavy industry level, criteria A	
OTHERS	MTBF	346K hrs min. MIL-HDBK-217F (25℃)	
	DIMENSION	55*90*100mm (W*H*D)	
	PACKING	0.42Kg; 30pcs/13.6Kg/0.82CUFT	
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. 5. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time. 6. Deating maybe needed under low input voltages, please check the derating curve for more detail.		

- High efficiency 94% and low power dissipation
- 150% peak load capability
- Built-in active PFC function, PF>0.94
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- Can be installed on DIN rail TS-35/7.5 or 15
- UL 508(industrial control equipment)approved
- EN61000-6-2(EN50082-2) industrial immunity level
- 100% full load burn-in test
- 3 years warranty
- Built-in DC OK relay contact
- 150% peak load capability

SPECIFICATION

MODEL		SDR-480-24	SDR-480-48
OUTPUT	DC VOLTAGE	24V	48V
	RATED CURRENT	20A	10A
	CURRENT RANGE	0 ~ 20A	0 ~ 10A
	RATED POWER	480W	480W
	PEAK CURRENT	30A	15A
	PEAK POWER Note.6	720W (3sec.)	
	RIPPLE & NOISE (max.)Note.2	100mVp-p	120mVp-p
	VOLTAGE ADJ. RANGE	24 ~ 28V	48 ~ 55V
	VOLTAGE TOLERANCE Note.3	±1.2%	±1.0%
	LINE REGULATION	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±1.0%
	SETUP, RISE TIME	1500ms, 150ms/230VAC 3000ms, 150ms/115VAC at full load	
	HOLD UP TIME (Typ.)	14ms/230VAC at full load	
INPUT	VOLTAGE RANGE Note.7	90 ~ 264VAC 127 ~ 370VDC	
	FREQUENCY RANGE	47 ~ 63Hz	
	POWER FACTOR (Typ.)	0.94/230VAC 0.99/115VAC at full load	
	EFFICIENCY (Typ.)	94%	
	AC CURRENT (Typ.)	5A/115VAC 2.5A/230VAC	
	INRUSH CURRENT (Typ.)	40A/115VAC 80A/230VAC	
	LEAKAGE CURRENT	<0.8mA / 240VAC	
PROTECTION	OVERLOAD	Normally works within 110 ~ 150% rated output power for more than 3 seconds and then shut down o/p voltage with auto-recovery	
		>150% rated power, constant current limiting with auto-recovery within 2 seconds and may cause to shut down if over 2 seconds	
	OVER VOLTAGE	29 ~ 33V	56 ~ 65V
		Protection type : Shut down o/p voltage with auto-recovery or re-power on to recovery	
	OVER TEMPERATURE	105℃±5℃ (TSW : detect on heatsink of power switch)	
		Protection type : Shut down o/p voltage, recovers automatically after temperature goes down	
FUNCTION	DC OK REALY CONTACT RATINGS (max.)	60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load	
ENVIRONMENT	WORKING TEMP. Note.5	-25 ~ +70℃ (Refer to output load derating curve)	
	WORKING HUMIDITY	20 ~ 95% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH	
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)	
	VIBRATION	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6	
SAFETY& EMC (Note 4)	SAFETY STANDARDS	UL508, TUV EN60950-1 approved	
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC O/P-DC OK:0.5KVAC	
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25℃/ 70% RH	
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B	
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3	
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, EN55024, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level, criteria A , SEMI F47 approved	
OTHERS	MTBF	112.9Khrs min. MIL-HDBK-217F (25℃)	
	DIMENSION	85.5*125.2*128.5mm (W*H*D)	
	PACKING	1.6Kg; 8pcs/13.8Kg/0.9CUFT	
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. 5. Installation clearances : 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power. In case the adjacent device is a heat source, 15mm clearance is recommended. 6. 3 seconds peak power max. and the average output power should not exceed the rate power. 7. Derating may be needed under low input voltage. Please check the derating curve for more details.	

- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Full output 12~48V safety approval
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- Fix switching frequency and regulation
- Topology: PWM 3882 circuit
- With power ON/OFF switch(option)
- LED indicator for power on
- Approvals: UL / CUL / TUV / CB / CE
- 1 year warranty

SPECIFICATION

ORDER NO.		U65S111-P2J
OUTPUT	SAFETY MODEL NO.	SPU65-111
	DC VOLTAGE Note.2	48V
	RATED CURRENT	1.66A
	CURRENT RANGE	0 ~ 1.66A
	RATED POWER	80W
	RIPPLE & NOISE (max.) Note.3	240mVp-p
	VOLTAGE ADJ. RANGE	Fixed
	VOLTAGE TOLERANCE Note.4	±2.0%
	LINE REGULATION Note.5	±0.5%
	LOAD REGULATION Note.6	±1.0%
	SETUP, RISE, HOLD UP TIME	800ms, 50ms, 16ms at full load
INPUT	VOLTAGE RANGE	95 ~ 264VAC 140 ~ 370VDC
	FREQUENCY RANGE	47 ~ 63Hz
	EFFICIENCY (Typ.)	81%
	AC CURRENT	1.9A / 100VAC
	INRUSH CURRENT (max.)	40A / 230VAC
	LEAKAGE CURRENT (max.)	0.75mA / 240VAC
PROTECTION	OVERLOAD	110 ~ 160% rated output power
		Protection type : Hiccup mode, recovers automatically after fault condition is removed
	OVER VOLTAGE	110 ~ 140% rated output voltage
		Protection type : Shut down o/p voltage, re-power on to recover
ENVIRONMENT	WORKING TEMP.	0 ~ + 40℃ (Refer to output load derating curve)
	WORKING HUMIDITY	20% ~ 90% RH non-condensing
	STORAGE TEMP., HUMIDITY	-20 ~ +85℃, 10 ~ 95% RH
	TEMP. COEFFICIENT	±0.03% / ℃ (0 ~ 50℃)
	VIBRATION	10 ~ 500Hz, 2G 3AXES 10min./1cycle, period for 60min. each along X, Y, Z axes
SAFETY & EMC (Note. 7)	SAFETY STANDARDS	UL1950, EN60950-1 approved
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC , I/P-FG:1.5KVAC
	ISOLATION RESISTANCE	I/P-O/P,I/P-FG:100M Ohms / 500VDC / 25℃/ 70% RH
	EMI CONDUCTION & RADIATION	Compliance to EN55022(CISPR22) class B
	HARMONIC CURRENT	Compliance to EN61000-3-2,3
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A
OTHERS	MTBF	100K hrs min. MIL-HDBK-217F (25℃)
	DIMENSION	168*78.5*44.5mm (L*W*H)
	PACKING	0.75kg; 25pcs / 19kg / CARTON
CONNECTOR	PLUG	Standard type P2J: 2.1ϕ * 5.5ϕ * 11mm, center positive for stock ; Other type available by customer requested
	CABLE	SPT-2 16AWG 6FT for 12V; SPT-1 18AWG 6FT for 15 ~ 48V; Other type available by customer requested
NOTE	1.All parameters are specified at 230VAC input, rated load, 25℃ 70% RH Ambient. 2.DC voltage: The output voltage set at point measure by plug terminal & 50% load. 3.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor. 4.Tolerence: includes set up tolerance, line regulation, load regulation. 5.Line regulation is measured from low line to high line at rated load. 6.Load regulation is measured from 0% to 100% rated load. 7.The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.	