

120W Single Output Industrial DIN RAIL with PFC Function

SDR-120 series



■ Features :

- High efficiency 91% and low power dissipation
- 150% peak load capability
- Built-in active PFC function, PF>0.93
- 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
- BS EN/EN61000-6-2(BS EN/EN50082-2) industrial immunity level
- Built-in DC OK relay contact
- 100% full load burn-in test
- 3 years warranty



SPEC

GTIN CODE

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FI	SDP-120-12	SDP-120-24				SDD-120-48			
CIFICATION		AS/NZS62368-1	TPTC004	N/A	UL508	BS EN/EN62368-1	IEC62368-1	_	- CH
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MODEL		SDR-120-12	SDR-120-24	SDR-120-48						
	DC VOLTAGE	12V	24V	48V						
	RATED CURRENT	10A	5A	2.5A						
	CURRENT RANGE	0 ~ 10A	0 ~ 5A	0 ~ 2.5A						
	RATED POWER	120W	120W	120W						
	PEAK CURRENT	15A	7.5A	3.75A						
	PEAK POWER Note.6	180W (3 sec.)								
OUTPUT	RIPPLE & NOISE (max.) Note.2	100mVp-p	100mVp-p	120mVp-p						
	VOLTAGE ADJ. RANGE	12 ~ 14V	24 ~ 28V	48 ~ 55V						
	VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%	±1.0%						
	LINE REGULATION	±0.5%	±0.5%	±0.5%						
	LOAD REGULATION	±1.0%	±1.0%	±1.0%						
	SETUP, RISE TIME	1500ms, 60ms/230VAC 3000ms, 60ms/115VAC at full load								
	HOLD UP TIME (Typ.)	20ms/230VAC 20ms/115VAC at full load								
	VOLTAGE RANGE Note.7									
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	0.93/230VAC 0.96/115VAC at full load								
INPUT	EFFICIENCY (Typ.)	89%	91%	90.5%						
	AC CURRENT (Typ.)	1.4A/115VAC 0.7A/230VAC								
	INRUSH CURRENT (Typ.)	35A/115VAC 70A/230VAC								
	LEAKAGE CURRENT	<1mA/240VAC								
	OVERLOAD	Normally works within 110 ~ 150% rated output power for more than 3 seconds and then shut down o/p voltage								
		>150% rated power, constant current limiting with auto-recovery within 3 seconds and shut down o/p voltage after 3 seconds								
DDOTECTION	OVER VOLTAGE	14 ~ 17V	29 ~ 33V	56 ~ 65V						
PROTECTION		Protection type : Shut down o/p voltage, re-power on to recover								
	OVER TEMPERATURE	$95^{\circ}\text{C} \pm 5^{\circ}\text{C}$ (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								
	WORKING TEMP.	-25 ~ +70°C (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 95% RH non-condensing								
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH								
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)								
	VIBRATION	Component: 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6								
	SAFETY STANDARDS	UL508, TUV BS EN/EN62368-1, AS/NZS 62368.1, EAC TP TC 004, BSMI CNS14336-1 approved; (meet BS EN/EN60204-1)								
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC O/P-DC OK:0.5KVAC								
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH								
(Note 4)	EMC EMISSION		BS EN/EN61204-3 Class B, BS EN/EN61000							
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55024, BS EN/EN61000-6-2 (BS EN/EN50082-2), BS EN/EN61204-3, heavy industry level, EAC TP TC 020, SEMI F47 approved								
	MTBF	,	lcore); 292.1K hrs min. MIL-HDBK-217F	(25°C)						
OTHERS	DIMENSION	40*125.2*113.5mm (W*H*D)								
	PACKING	0.67Kg; 20pcs/14.4Kg/1.16CUFT								
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. 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. 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. 3 seconds max., please refer to peak loading curves. Derating may be needed under low input voltage. Please check the derating curve for more details. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft) Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 									
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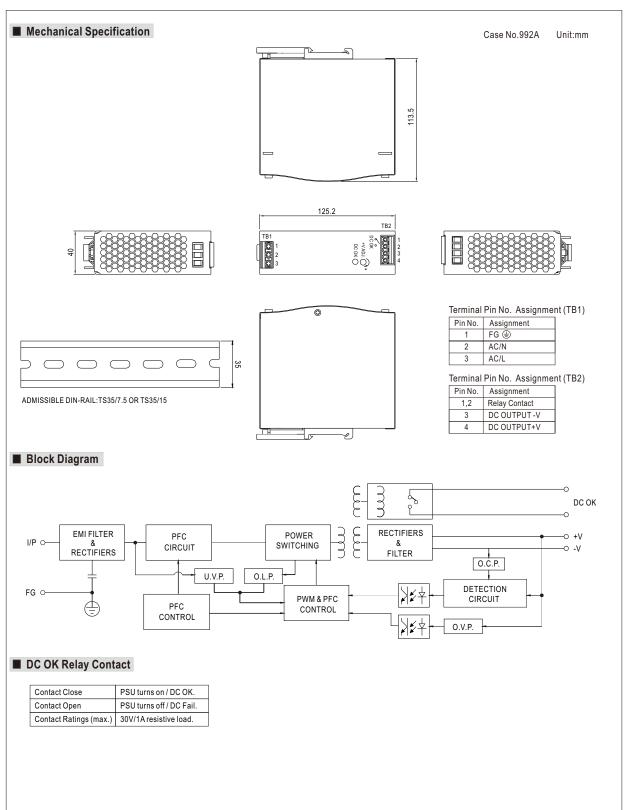
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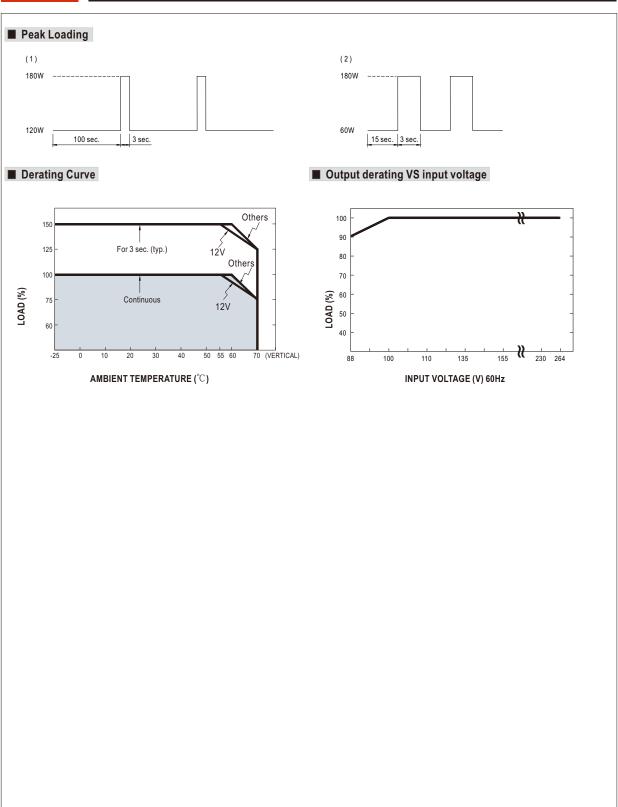
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