

SDR-120-48



120W Single Output Industrial DIN RAIL Power Supply

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
- EN61000-6-2(EN50082-2) industrial immunity level
- Built-in DC OK relay contact
- ■100% full load burn-in test
- 3 years warranty



Specification

MODEL		SDR-120-48
WODEL	DC VOLTAGE	48V
OUTPUT	RATED CURRENT	2.5A
	CURRENT RANGE	0 ~ 2.5A
	RATED POWER	120W
	PEAK CURRENT	3.75A
		180W (3 sec.)
		120mVp-p
	VOLTAGE ADJ. RANGE	48 ~ 55V
		±1.0%
	VOLTAGE TOLERANCE Note.3 LINE REGULATION	±1.0% ±0.5%
	LOAD REGULATION	±1.0%
	SETUP, RISE TIME	1500ms, 60ms/230VAC 3000ms, 60ms/115VAC at full load 20ms/230VAC 20ms/115VAC at full load
	HOLD UP TIME (Typ.) VOLTAGE RANGE Note.7	20ms/230VAC 20ms/115VAC at full load 88 ~ 264VAC 124 ~ 370VDC
	VOLTAGE RANGE Note.7 FREQUENCY RANGE	
INPUT		47 ~ 63Hz 0.93/230VAC 0.96/115VAC at full load
	POWER FACTOR (Typ.)	0.00,000
	EFFICIENCY (Typ.)	90.5%
	AC CURRENT (Typ.)	1.4A/115VAC 0.7A/230VAC
	INRUSH CURRENT (Typ.)	35A/115VAC 70A/230VAC
	LEAKAGE CURRENT	<1mA / 240VAC
PROTECTION		Normally works within 110 ~ 150% rated output power for more than 3 seconds
	OVERLOAD	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
	OVER VOLTAGE	56 ~ 65V
		Protection type: Shut down o/p voltage, re-power on to recover
	OVER TEMPERATURE	95°C±5°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	60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load
	RATINGS (max.)	



Innovation to your needs

MODEL		SDR-120-48
ENVIRONMENT	WORKING TEMP.	-25 ~ +70°C (Refer to "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	UI508, TUV EN60950-1 approved;(meet EN60204-1)
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC 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°C/ 70% RH
	EMC EMISSION	Compliance to EN55011, EN55032 (CISPR32), EN61204-3 Class B, EN61000-3-
		2,-3
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2 (EN50082-2),
		EN61204-3, heavy industry level, criteria A, SEMI F47, GL approved
OTHERS	MTBF	289.9K hrs min. MIL-HDBK-217F (25°C)
	DIMENSION	40*125.2*113.5mm (W*H*D)
	PACKING	0.67Kg; 20pcs/14.4Kg/1.16CUFT
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 max., please refer to peak loading curves.	
	7. Derating may be needed under low input voltage. Please check the derating curve for more details.	





