

SDR-240-48



240W Single Output Industrial DIN RAIL with PFC Function

Features

- High efficiency 94% 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

Specificat		
MODEL		SDR-240-48
	DC VOLTAGE	48V
	RATED CURRENT	5A
	CURRENT RANGE	0 ~ 5A
	RATED POWER	240W
	PEAK CURRENT	7.5A
		360W (3sec.)
OUTPUT		50mVp-p
	VOLTAGE ADJ. RANGE	48 ~ 55V
	VOLTAGE TOLERANCE Note.3	±1.0%
	LINE REGULATION	±0.5%
	LOAD REGULATION	±1.0%
	SETUP, RISE TIME	650ms, 60ms/230VAC 1300ms, 60ms/115VAC at full load
	HOLD UP TIME (Typ.)	20ms/230VAC 20ms/115VAC at full load
	VOLTAGE RANGE	88 ~ 264VAC 124 ~ 370VDC
	FREQUENCY RANGE	47 ~ 63Hz
	POWER FACTOR (Typ.)	0.94/230VAC 0.99/115VAC at full load
INPUT	EFFICIENCY (Typ.) Note.8	94%
	AC CURRENT (Typ.)	2.6A/115VAC 1.3A/230VAC
	INRUSH CURRENT (Typ.)	33A/115VAC 55A/230VAC
	LEAKAGE CURRENT	<1mA / 240VAC
		Normally works within 110 ~ 150% rated output power for more than 3 seconds
	OVERLOAD	and then shut down o/p voltage with auto-recovery
OVER	OVERLOAD	>150% rated power, constant current limiting with auto-recovery within 2 seconds
		and may cause to shut down if over 2 seconds
PROTECTION	OVERVOLTACE	56 ~ 65V
	OVER VOLTAGE	Protection type : Shut down o/p voltage with auto-recovery
		95°C±5°C (TSW: detect on heatsink of power switch)
	OVER TEMPERATURE	Protection type: Shut down o/p voltage, recovers automatically after temperature
		goes down
FUNCTION	DC OK REALY CONTACT	
FUNCTION	RATINGS (max.)	60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load

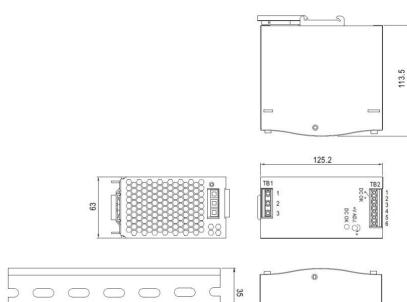


Innovation to your needs

MODEL		SDR-240-48
		-25 ~ +70°C (Refer to "Derating Curve")
	WORKING HUMIDITY	20 ~ 95% RH non-condensing
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 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 UI508, TUV EN60950-1 approved; (meet EN60204-1)	
		I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC O/P-DC OK:0.5KVAC
SAFETY & EMC	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
	MTBF 169.3K hrs min. MIL-HDBK-217F (25℃)	
OTHERS	DIMENSION	63*125.2*113.5mm (W*H*D)
	PACKING	1.03Kg; 12pcs/13.4Kg/1.06CUFT
	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25^oC of ambient temperature. 	
	2. Ripple & noise are measured at parallel capacitor.	20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf
	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	
NOTE	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. 	
	6. 3 seconds max., please refer to peak loading curves.	
		ow input voltage. Please check the derating curve for more details.
	8. After 30 minutes of burn-in.	

■ Mechanical Specification

Case No. 979A Unit:mm



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Terminal	Pin No. Assign	ment (TB
Pin No.	Assignment	
4	FC (I)	

Pin No.	Assignment
1	FG 🖶
2	AC/N
3	AC/L

Terminal	Pin No.	Assignment	(TB2)
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Pin No.	Assignment
1,2	Relay Contact
3,4	DC OUTPUT +V
5,6	DC OUTPUT -V

ADMISSIBLE DIN-RAIL:TS35/7.5 OR TS35/15

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