

SDR-75-48

75W Single Output Industrial DIN RAIL Power Supply



Features

- High efficiency 90% and low power dissipation
- 150% peak load capability
- 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
- 100% full load burn-in test
- 3 years warranty



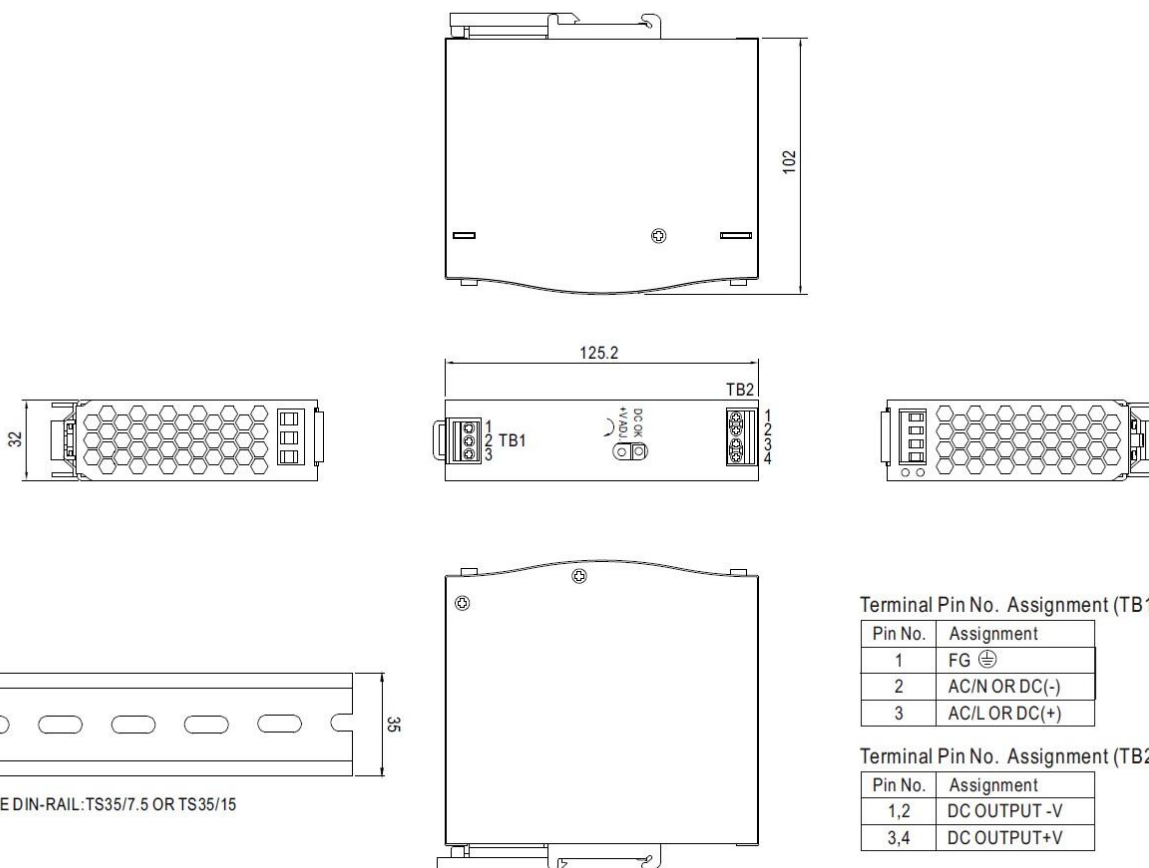
Specification

MODEL	SDR-75-48	
OUTPUT	DC VOLTAGE	48V
	RATED CURRENT	1.6A
	CURRENT RANGE	0 ~ 1.6A
	RATED POWER	76.8W
	PEAK CURRENT	2.34A
	PEAK POWER	Note.6 112.5W (3 sec.)
	RIPPLE & NOISE (max.)	Note.2 120mVp-p
	VOLTAGE ADJ. RANGE	48 ~ 55V
	VOLTAGE TOLERANCE	Note.3 ±1.0%
	LINE REGULATION	±0.5%
	LOAD REGULATION	±1.0%
SETUP, RISE TIME	1500ms, 60ms/230VAC 3000ms, 60ms/115VAC at full load	
HOLD UP TIME (Typ.)	80ms/230VAC 20ms/115VAC at full load	
INPUT	VOLTAGE RANGE	Note.7 88 ~ 264VAC 124 ~ 370VDC [DC input operation possible by connecting AC/L(+),AC/N(-)]
	FREQUENCY RANGE	47 ~ 63Hz
	EFFICIENCY (Typ.)	90%
	AC CURRENT (Typ.)	1.4A/115VAC 0.85A/230VAC
	INRUSH CURRENT (Typ.)	30A/115VAC 50A/230VAC
LEAKAGE CURRENT	<1mA / 240VAC	
PROTECTION	OVERLOAD	Normally works within 110 ~ 150% rated output power for more than 3 seconds and then shut down o/p voltage, re-powr on to recover 150 ~ 170% rated power, constant current limiting with auto-recovery within 3 seconds, and then shut down o/p voltage after 3 seconds, re-powr on to recover
	OVER VOLTAGE	56 ~ 65V Protection type : Shut down o/p voltage, re-power on to recover
	OVER TEMPERATURE	100°C±10°C (RTH2) detect on main of power transistor Protection type : Shut down o/p voltage, re-powr on to recover after temperature goes down
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")
	WORKING HUMIDITY	20 ~ 95% RH non-condensing
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 60°C)
	VIBRATION	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6

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SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL508, TUV EN60950-1 approved, design refer to GL ;(meet EN60204-1)
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG: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 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 approved
OTHERS	MTBF	481.9K hrs min. MIL-HDBK-217F (25°C)
	DIMENSION	32*125.2*102mm (W*H*D)
	PACKING	0.51Kg; 28pcs/15.3Kg/1.22CUFT
NOTE	<ol style="list-style-type: none"> 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. 	

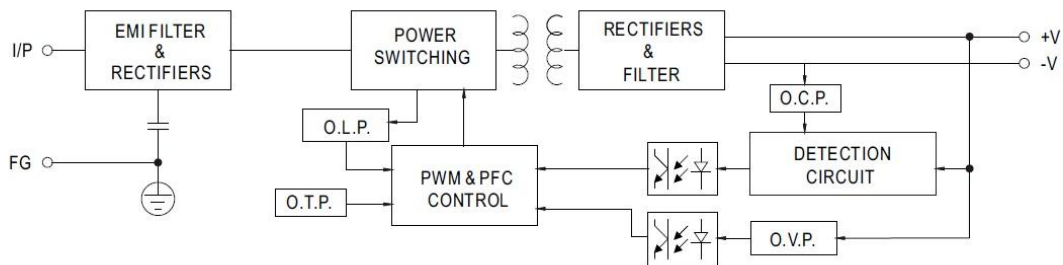
Mechanical Specification

Case No. Unit:mm

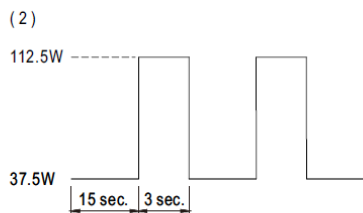
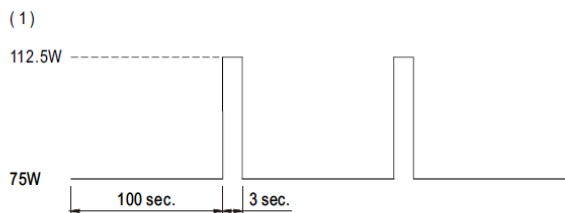


Block Diagram

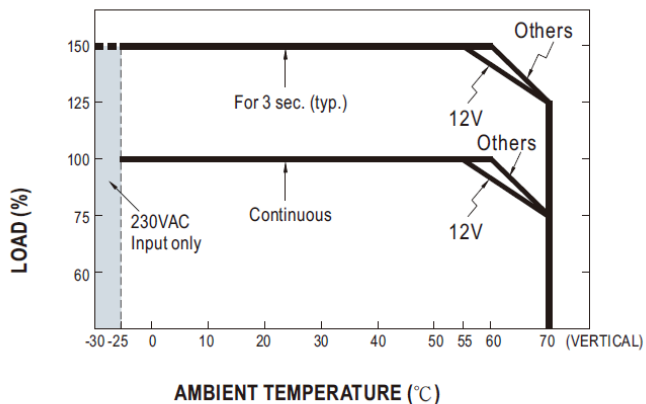
fosc : 85KHz



Peak Loading



Derating Curve



Output derating VS input voltage

