



■ 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

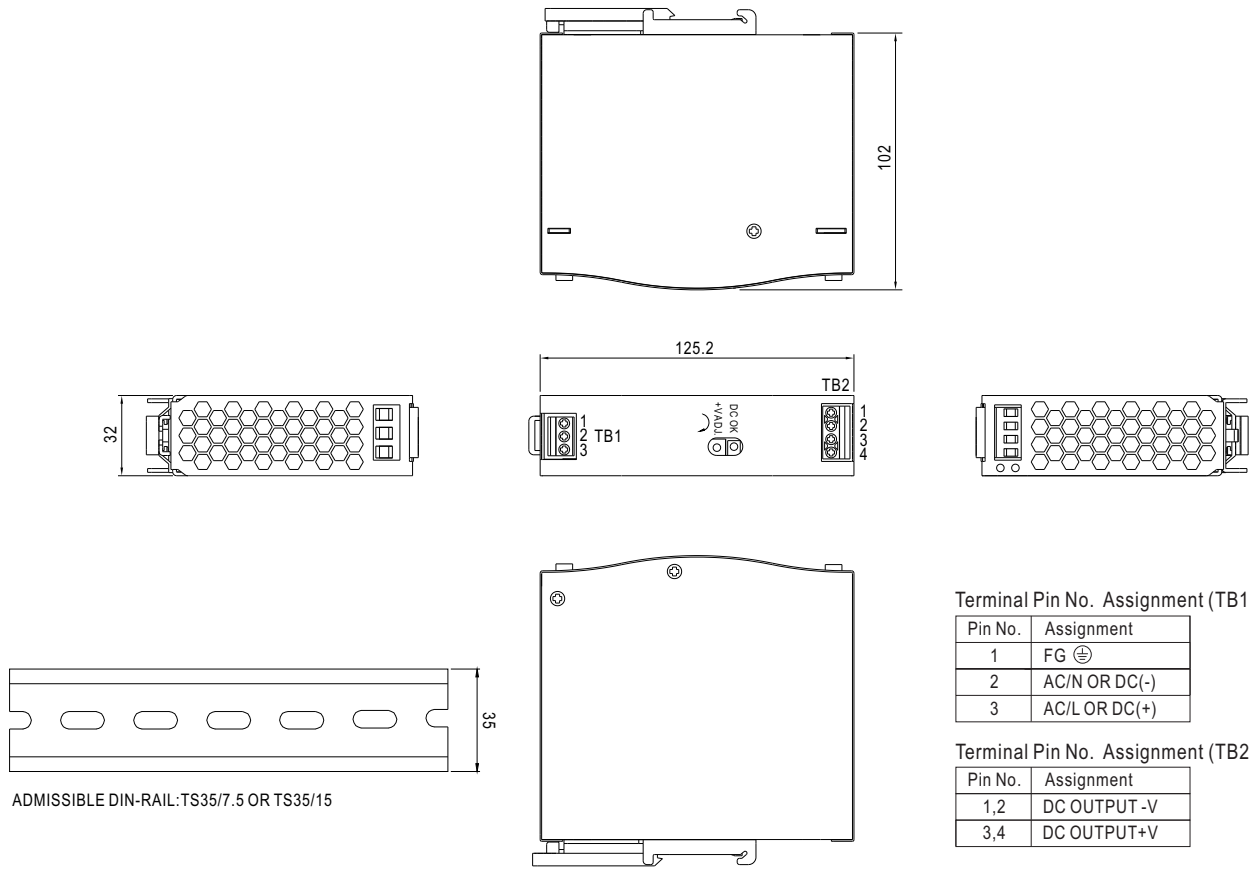


SPECIFICATION

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 <small>Note.6</small>	112.5W (3 sec.)	
	RIPPLE & NOISE (max.) <small>Note.2</small>	120mVp-p	
	VOLTAGE ADJ. RANGE	48 ~ 55V	
	VOLTAGE TOLERANCE <small>Note.3</small>	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 <small>Note.7</small>	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	
SAFETY & EMC <small>(Note 4)</small>	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 EN55022 (CISPR22), EN61204-3 Class B, EN61000-3-2,-3	
OTHERS	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	
	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"> 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µf & 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. 		

Mechanical Specification

Case No. Unit:mm



Terminal Pin No. Assignment (TB1)

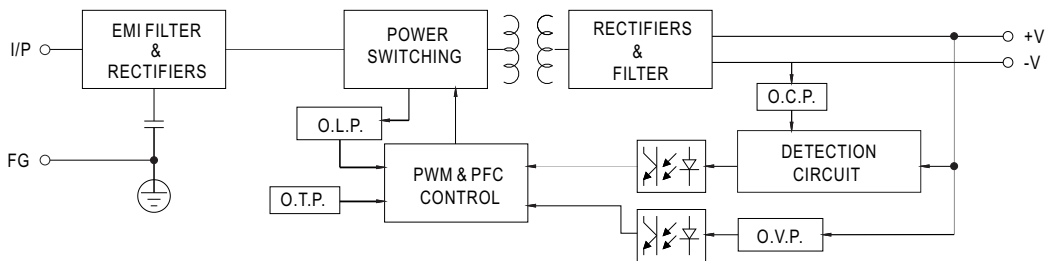
Pin No.	Assignment
1	FG ⊕
2	AC/N OR DC(-)
3	AC/L OR DC(+)

Terminal Pin No. Assignment (TB2)

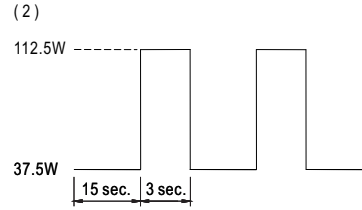
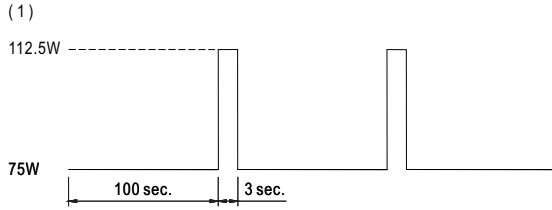
Pin No.	Assignment
1,2	DC OUTPUT -V
3,4	DC OUTPUT +V

Block Diagram

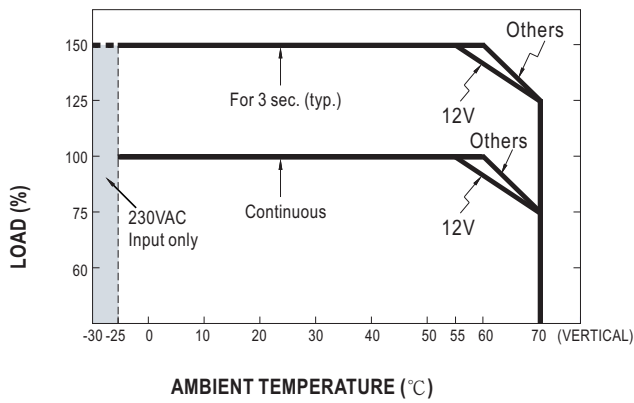
fosc : 85KHz



Peak Loading



Derating Curve



Output derating VS input voltage

