MEAN WELL DIRECT

75W Single Output Industrial DIN RAIL with Power Supply SDR-75 series

■ 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-75-12	SDR-75-24	SDR-75-48
OUTPUT	DC VOLTAGE	12V	24V	48V
	RATED CURRENT	6.3A	3.2A	1.6A
	CURRENT RANGE	0 ~ 6.3A	0 ~ 3.2A	0 ~ 1.6A
	RATED POWER	75.6W	76.8W	76.8W
	PEAK CURRENT	9.375A	4.69A	2.34A
	PEAK POWER Note.6	112.5W (3 sec.)		
	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.)	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.)	88.5%	89%	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	14 ~ 17V	29 ~ 33V	56 ~ 65V
		Protection type : Shut down o/p voltage, re-power on to recover		
	OVER TEMPERATURE	100℃ ±10℃ (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℃ (Refer to "Derating Curve")		
	WORKING HUMIDITY	20 ~ 95% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH		
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 60℃		
	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	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℃ / 70% RH		
	EMC EMISSION	Compliance to EN55022 (CISPR22). 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℃)		
	DIMENSION	32*125.2*102mm (W*H*D)		
	PACKING	0.51Kg; 28pcs/15.3Kg/1.22CUFT		

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.

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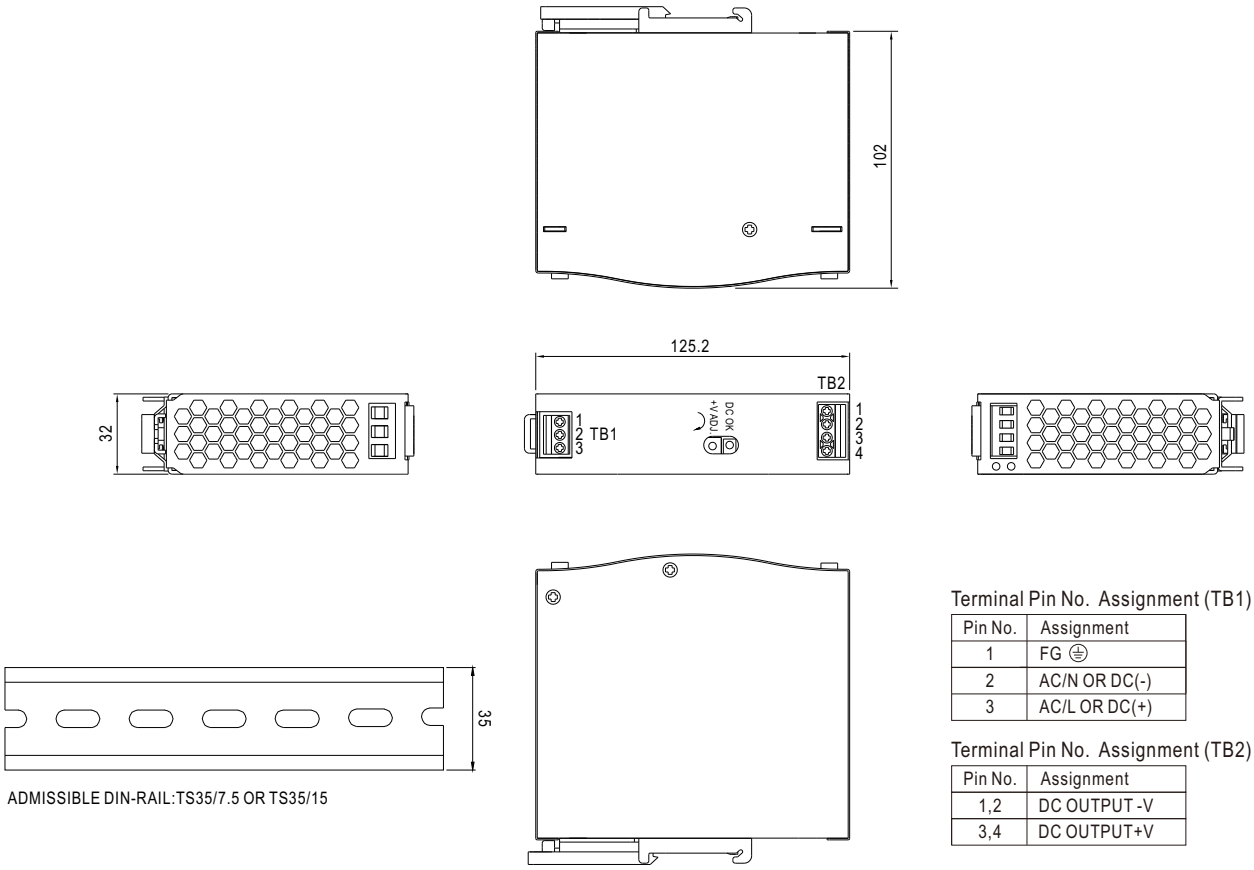
■ Mechanical Specification

Case No. Unit:mm



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

Terminal Pin No. Assignment (TB1)

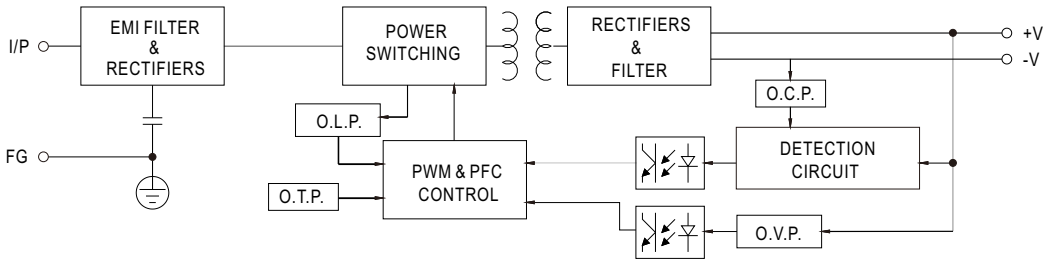
Pin No.	Assignment
1	FG ⏚
2	AC/N OR DC(-)
3	AC/L OR DC(+)

Terminal Pin No. Assignment (TB2)

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

■ Block Diagram

fosc : 85KHz



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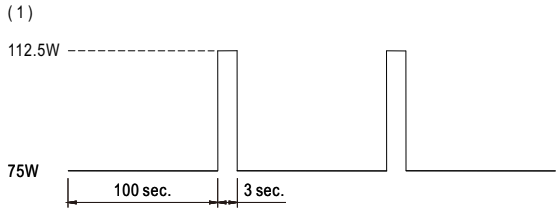
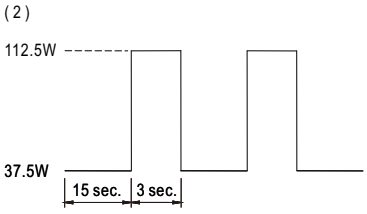
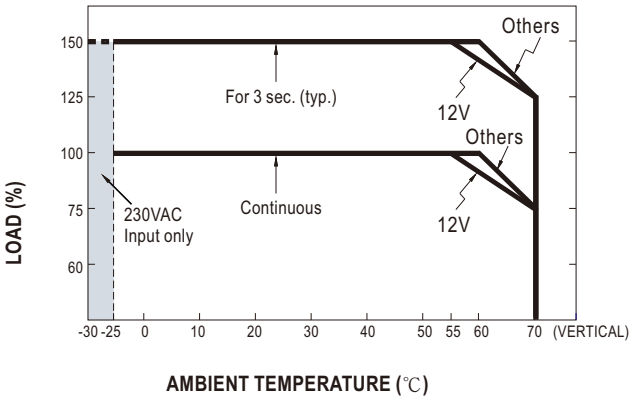
■ Peak Loading

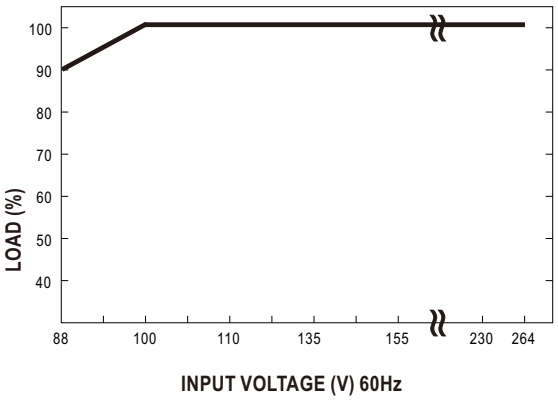




■ Derating Curve



■ Output derating VS input voltage



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