

SDR-75 Series

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
- .BS EN/EN61000-6-2(BS EN/EN50082-2) industrial immunity level
- .100% full load burn-in test
- .3 years warranty



■ GTIN CODE

MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

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 <small>Note.6</small>	112.5W (3 sec.)				
	RIPPLE & NOISE (max.) <small>Note.2</small>	100mVp-p	100mVp-p	120mVp-p		
	VOLTAGE ADJ. RANGE	12 ~ 14V	24 ~ 28V	48 ~ 55V		
	VOLTAGE TOLERANCE <small>Note.3</small>	±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 <small>Note.7</small>	88 ~ 264VAC		124 ~ 370VDC [DC input operation possible by connecting AC/L(+),AC/N(-)]		
	FREQUENCY RANGE	47 ~ 63Hz				
	EFFICIENCY (Typ.)	88.5%		89%		
	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-power 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-power on to recover				
	OVER VOLTAGE	14 ~ 17V	29 ~ 33V	56 ~ 65V		
	OVER TEMPERATURE	100°C ± 10°C (RTH2) detect on main of power transistor Protection type : Shut down o/p voltage, re-power 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 (Note 4)	SAFETY STANDARDS	UL508, TUV BS EN/EN62368-1, AS/NZS 62368.1, EAC TP TC 004 approved, design refer to GL ;(meet BS EN/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 BS EN/EN55032 (CISPR32), BS EN/EN61204-3 Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020				
OTHERS	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, BS EN/EN61000-6-2 (BS EN/EN50082-2), BS EN/EN61204-3, heavy industry level, EAC TP TC 020, SEMI F47 approved				
	MTBF	2670.8K hrs min. Telcordia SR-332 (Bellcore) ; 479.8K hrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	32*125.2*102mm (W*H*D)				
NOTE	PACKING	0.51Kg; 28pcs/15.3Kg/1.22CUFT				
		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 0.1 μ F & 47 μ F 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. (as available on https://www.meanwell.com/Upload/PDF/EML_statement_en.pdf) 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. 8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx				

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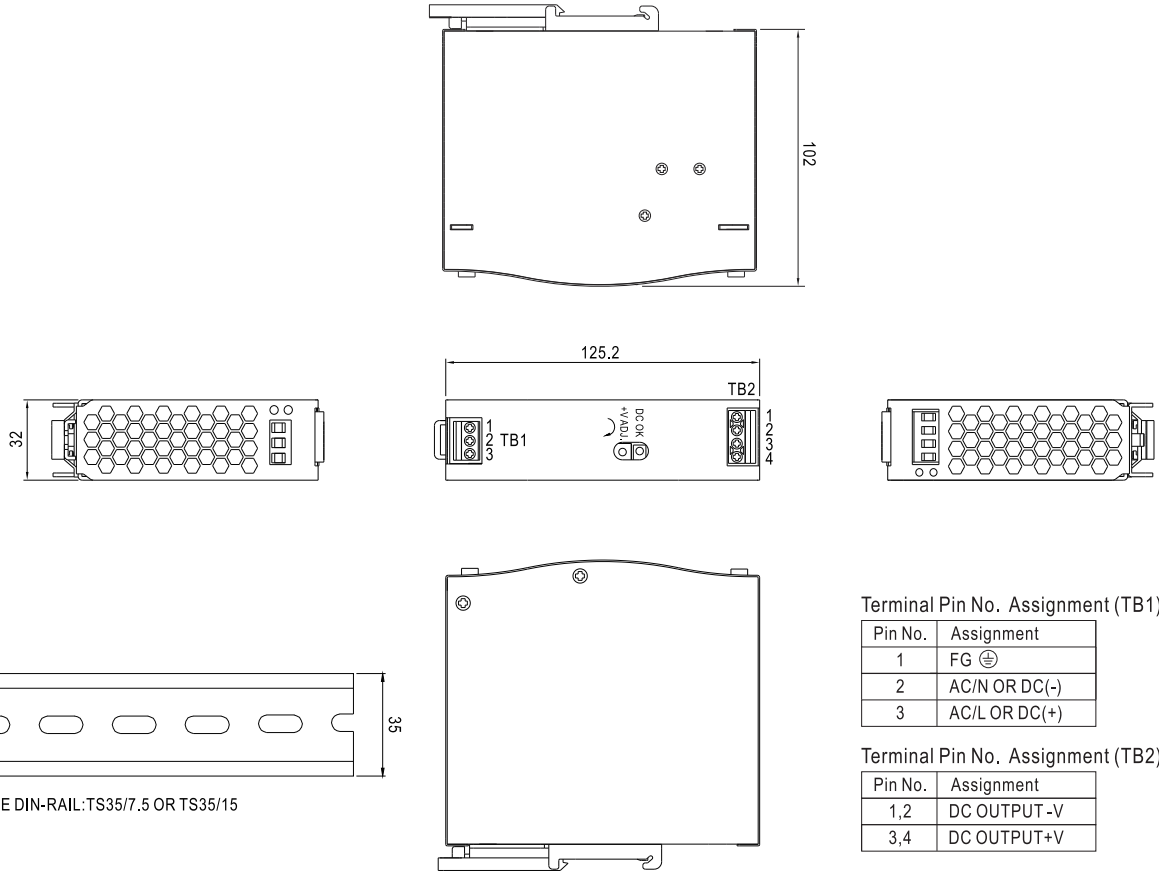
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Mechanical Specification

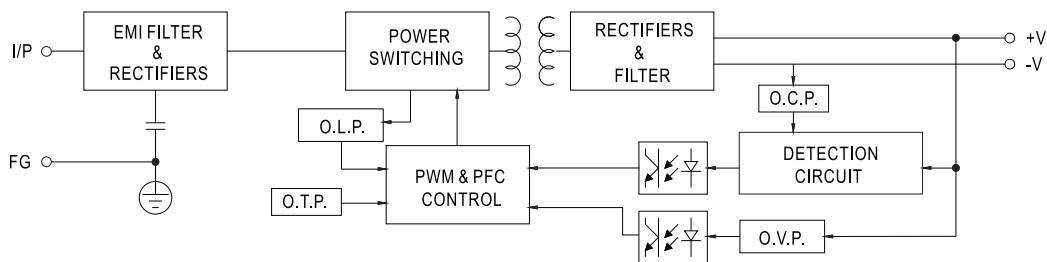
(Unit: mm , tolerance ± 1 mm)

Case No. 221A



Block Diagram

fosc : 85KHz

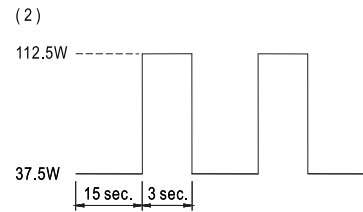
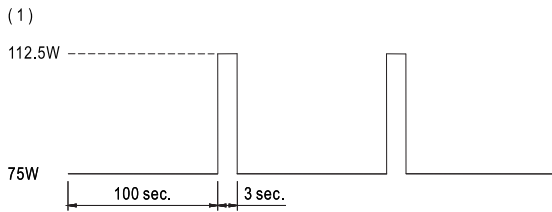


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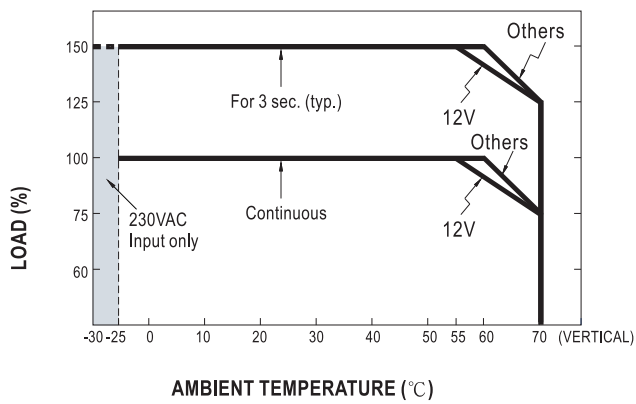
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Peak Loading



Derating Curve



Output derating VS input voltage

