



#### ■ 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

User's Manual



#### ■ GTIN CODE

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

#### SPECIFICATION

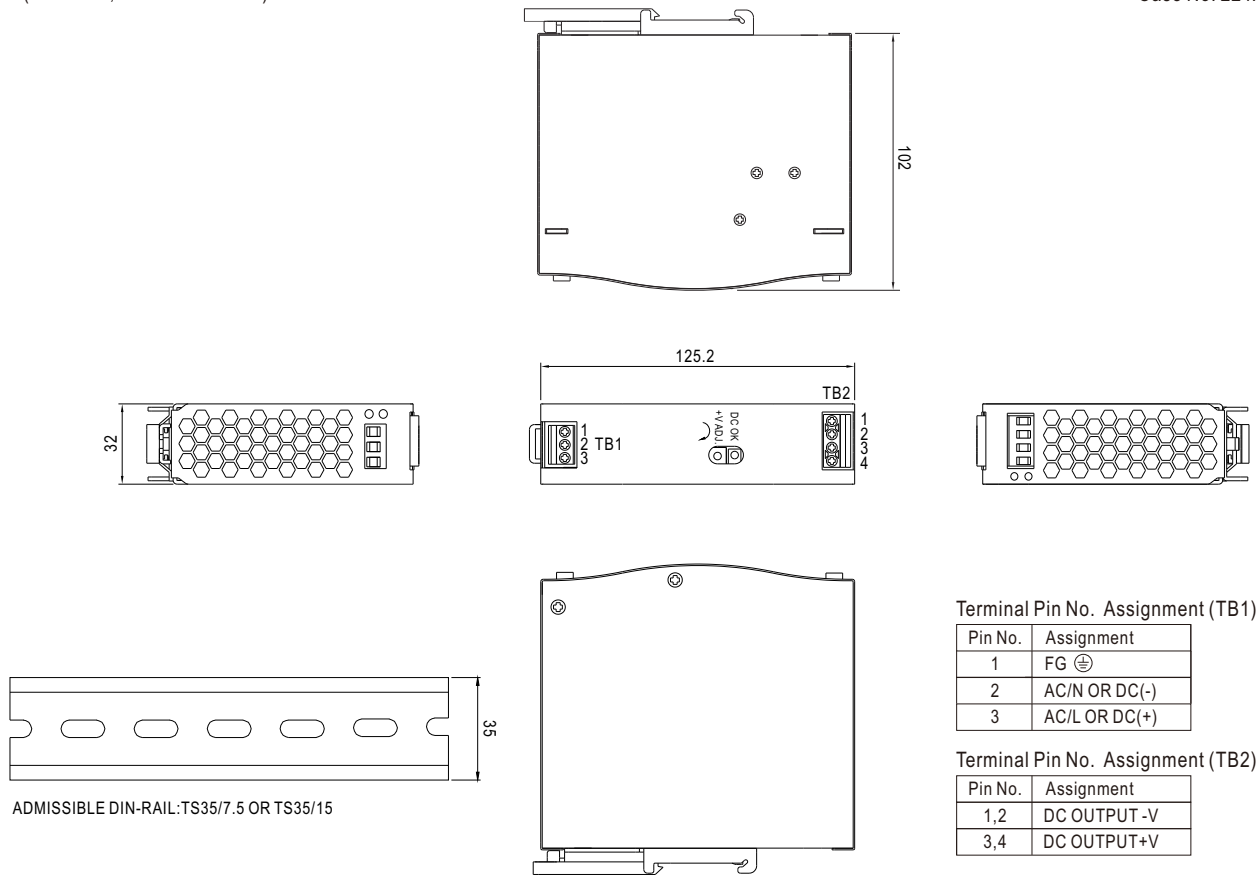


MODEL		SDR-75-12		SDR-75-24		SDR-75-48	
OUTPUT	DC VOLTAGE	12V		24V		48V	
	RATED CURRENT	6.3A		3.2A		1.6A	
	CURRENT RANGE	0 ~ 6.3A		0 ~ 3.2A		0 ~ 1.6A	
	RATED POWER	75.6W		76.8W		76.8W	
	PEAK CURRENT	9.375A		4.69A		2.34A	
	PEAK POWER Note.6	112.5W (3 sec.)					
	RIPPLE & NOISE (max.) Note.2	100mVp-p		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°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 (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)					
	PACKING	0.51Kg; 28pcs/15.3Kg/1.23CUFT					
NOTE	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 <a href="https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf">https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf</a> ) 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 <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a>						

## Mechanical Specification

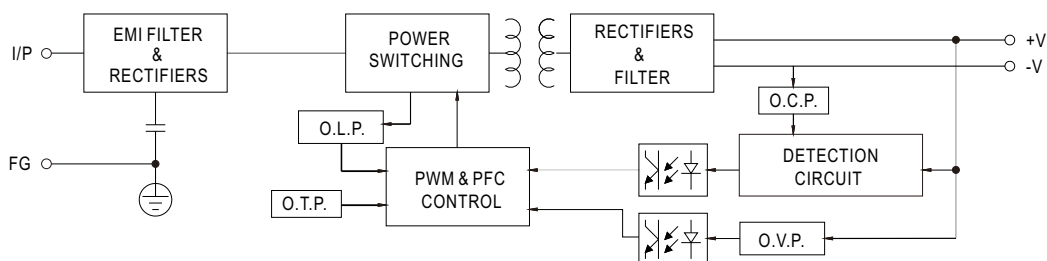
(Unit: mm , tolerance  $\pm 1$ mm)

Case No. 221A

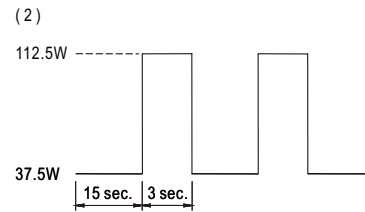
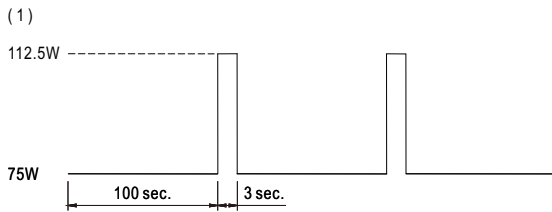


## Block Diagram

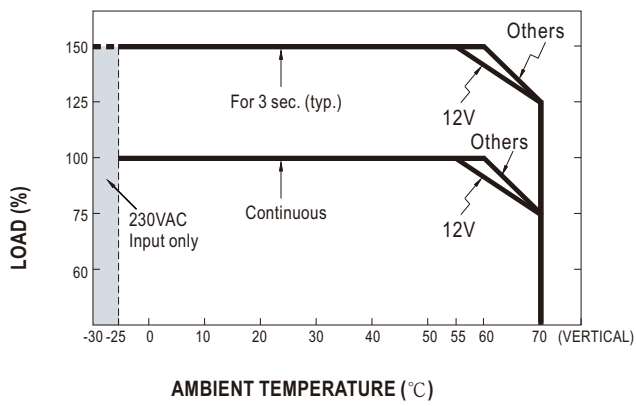
fosc : 85KHz



## ■ Peak Loading



## ■ Derating Curve



## ■ Output derating VS input voltage

