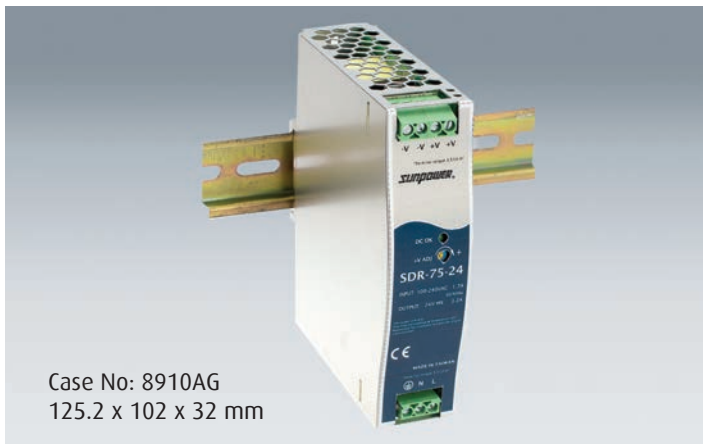


# SDR-75 Series

75W Single Output Industrial DIN RAIL with Power Supply



Case No: 8910AG  
125.2 x 102 x 32 mm

## 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

INPUT	<b>Voltage</b>	88V ~ 264VAC 124 ~ 370VDC			
	<b>Frequency</b>	47 ~ 63 Hz			
	<b>Efficiency</b>	88.5%	89%	90%	
	<b>Current</b>	1.4A@115VAC	0.85A@230VAC		
	<b>Inrush Current (Typ.)</b>	30A@115VAC	50A@230VAC		
	<b>Leakage Current</b>	<1mA@240VAC			
	<b>MODEL No.</b>	<b>SDR-75-12</b>	<b>SDR-75-24</b>	<b>SDR-75-48</b>	
OUTPUT	<b>Voltage</b>	12V	24V	48V	
	<b>Rated Current</b>	6.3A	3.2A	1.6A	
	<b>Current Range</b>	0 ~ 6.3A	0 ~ 3.2A	0 ~ 1.6A	
	<b>Rated Power</b>	75.6W	76.8W	76.8W	(Peak Power 112.5W for 3 sec.)
	<b>Peak Current</b>	9.375A	4.69A	2.34A	
	<b>Ripple Noise MAX</b>	100mVp-p	100mVp-p	120mVp-p	
	<b>Voltage Adj. Range</b>	12 ~ 14V	24 ~ 28V	48 ~ 55V	
	<b>Voltage Tolerance</b>	± 1.0%	± 1.0%	± 1.0%	
	<b>Line Regulation</b>	± 0.5%	± 0.5%	± 0.5%	
	<b>Load Regulation</b>	± 1.0%	± 1.0%	± 1.0%	
	<b>Setup Rise Time</b>	1500ms, 60ms / 230VAC1 3000ms, 60ms / 115VAC at full load			
	<b>Holdup Time (Typ.)</b>	80ms / 230VAC 20ms / 115VAC at full load			
	PROTECTION	<b>Overload</b>	Normally works within 110 ~ 115% rated output power for more than 3 seconds and then shut down o/p voltage, re-power 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		
<b>Over Voltage</b>		14~17V	29~33V	56~65V	
<b>Over Temperature</b>		Protection Type: Constant current limiting, recovers automatically after fault condition is removed 100° C ± 5° C (RTHZ) detect on heatsink of power switch Protection Type: Shut down o/p voltage, re-power on to recover after temperature goes down			
ENVIRONMENT	<b>Working Temp.</b>	-30~+70°C (Refer to "Derating Curve")			
	<b>Working Humidity</b>	20~95% RH non-condensing			
	<b>Storage Temp., Humidity</b>	-40~+80°C, 10~95%RH			
	<b>Temp. Co-efficient</b>	±0.03% / °C (0~60°C)			
SAFETY & EMC	<b>Vibration</b>	Component: 10~500Hz, 2G 10min./1cycle, 60 min. each along X, Y, Z axes; mounting: Compliance to IEC60068-2-6			
	<b>Safety Standards</b>	UL508, TUV EN60950-1 approved, design refer to GL, (meets EN6024)			
	<b>Withstand Voltage</b>	I/P-OP:3KVAC	I/P-FG:2KVAC	O/P-FG:0.5KVAC	
	<b>Isolation Resistance</b>	I/P-O/P, I/P-FG:>1000hms / 500VDC / 25°C / 70%RH			
	<b>EMC Emission</b>	Compliance to EN55022 (CISPR22). EN61204-3 Class B, EN61000-3-2,-3			
OTHERS	<b>EMC Immunity</b>	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN55024, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level, criteria A SEMI F47 approved			
	<b>MTBF</b>	K hrs min. MIL-HDBK-217F (25°C)			
	<b>Packaging</b>	0.51Kg; 28pcs/15.3Kg/1.25CUFT			

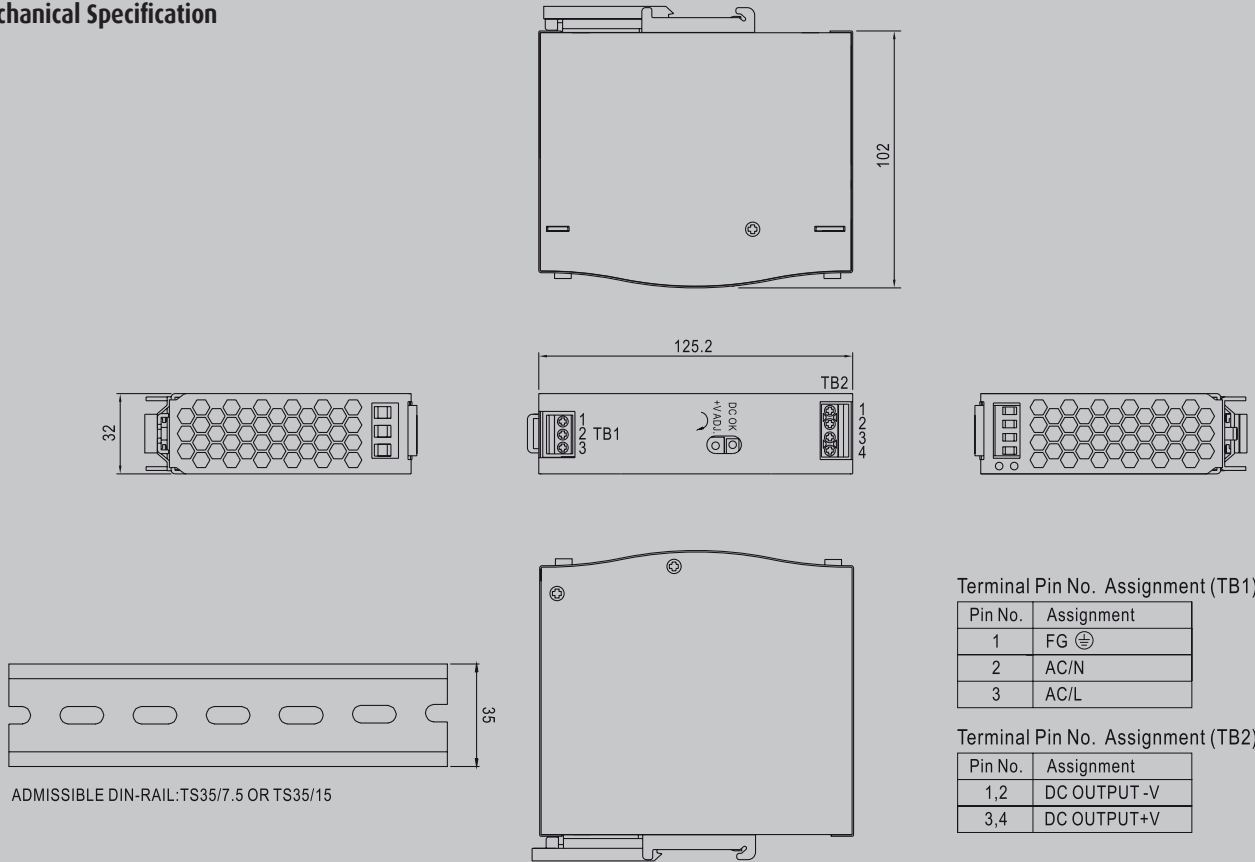
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple and noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
3. Tolerance: includes set up tolerance, line 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.

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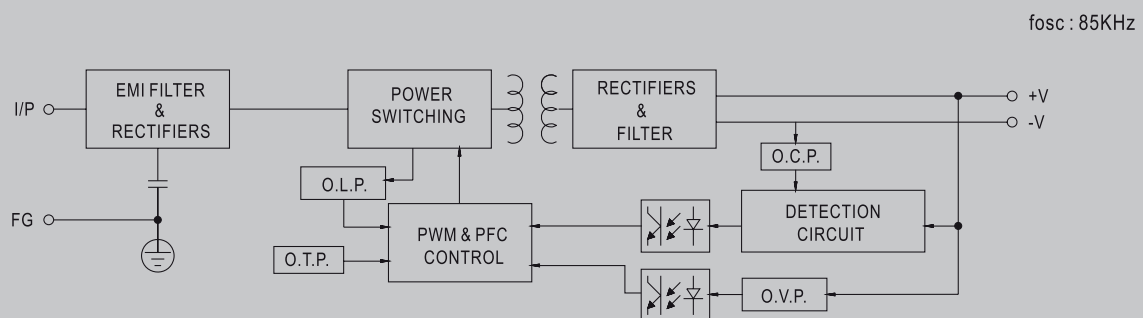
75W Single Output Industrial DIN RAIL with Power Supply



## Mechanical Specification



## Block Diagram

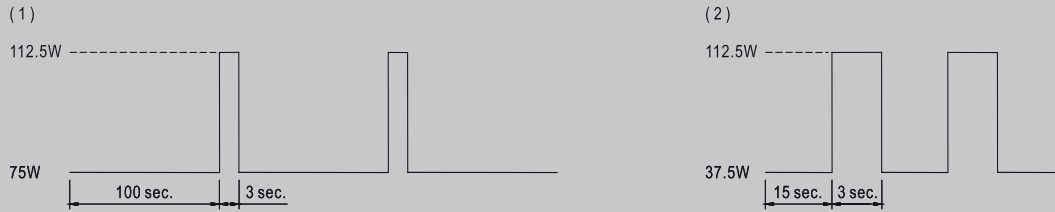


# SDR-75 Series

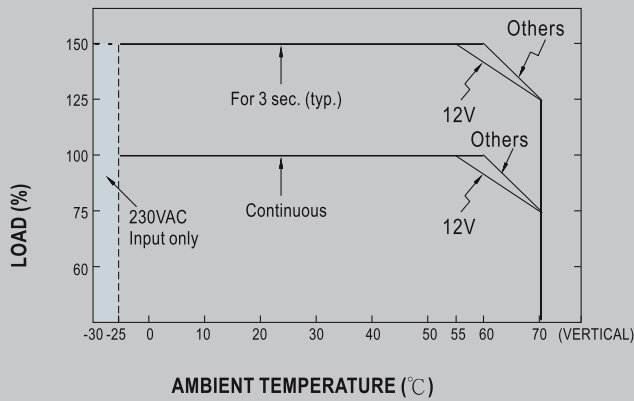
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## Peak Loading



## Derating Curve



## Output derating VS input voltage

