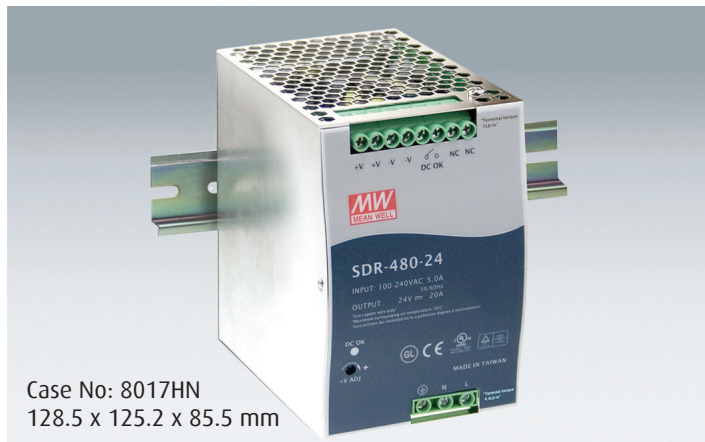


SDR-480 Series

480W Single Output Industrial DIN RAIL with PFC Function Power Supply



Case No: 8017HN
128.5 x 125.2 x 85.5 mm

Features

- High efficiency 94% and low power dissipation
- 150% peak load capability
- Built-in active PFC function, PF>0.94
- Protections: Short circuit / Overload / Over Voltage / Over Temperature
- Built-in constant current limiting
- 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
- Built-in DC OK relay contact
- 100% full load burn-in test
- 3 years warranty



Specification

INPUT	Voltage	90V ~ 264VAC	124 ~ 370VDC		
	Frequency	47 ~ 63 Hz			
	Power Factor	0.94/230VAC	0.99/115VAC at full load		
	Current	5A@115VAC	2.5A@230VAC		
	Inrush Current (Typ.)	40A@115VAC	80A@230VAC		
	Leakage Current	<0.8mA@240VAC			
	Efficiency	94%	94%		
	MODEL No.	SDR-480-24	SDR-480-48		
OUTPUT	Voltage	24V	48V		
	Rated Current	20A	10A		
	Current Range	0 ~ 20A	0 ~ 10A		
	Rated Power	480W	480W		
	Peak Current	30A	15A		
	Peak Power	720W (3sec)			
	Ripple Noise MAX	100mVp-p	120mVp-p		
	Voltage Adj. Range	24 ~ 28V	48 ~ 55V		
	Voltage Tolerance	± 1.2%	± 1.0%		
	Line Regulation	± 0.5%	± 0.5%		
	Load Regulation	± 1.0%	± 1.0%		
PROTECTION	Overload	Normally works within 110 ~ 150% rated output power for more than 3 seconds and then shut down o/p voltage with auto-recovery >150% rated power, constant current limiting with auto-recovery within 2 seconds and may cause shut down if over 2 seconds			
	Over Voltage	29~33V	56~65V		
	Over Temperature	Protection Type: Shut down o/p voltage with auto-recovery			
		95° C ± 5° C (TSW: detect on heatsink of power switch) Protection Type: Shut down o/p voltage, recovers automatically after temperature goes down			
FUNCTION	DC OK Relay contact ratings (max.)	60Vdc/0.3A, 30Vdc/1A, 30VAC/0.5A resistive load			
ENVIRONMENT	Working Temp.	-25~+70°C (Refer to "Derating Curve")			
	Working Humidity	20~95% RH non-condensing			
	Storage Temp., Humidity	-40~+85°C, 10~95%RH			
	Temp. Co-efficient	±0.03% / °C (0~50°C)			
	Vibration	Component: 10~500Hz, 2G 10min./1cycle, 60 min. each along X, Y, Z axes; mounting: Compliance to IEC60068-2-6			
SAFETY & EMC	Safety Standards	UL508, TUV EN60950-1 approved, (Meets EN60204-1)			
	Withstand Voltage	I/P-OP:3KVAC	I/P-FG:2KVAC	O/P-FG:0.5KVAC	O/P-DC OK: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 EN55011, 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, GL approved			
OTHERS	MTBF	112.9K hrs min. MIL-HDBK-217F (25°C)			
	Packaging	1.6Kg; 8pcs/13.8Kg/0.9CUFT			

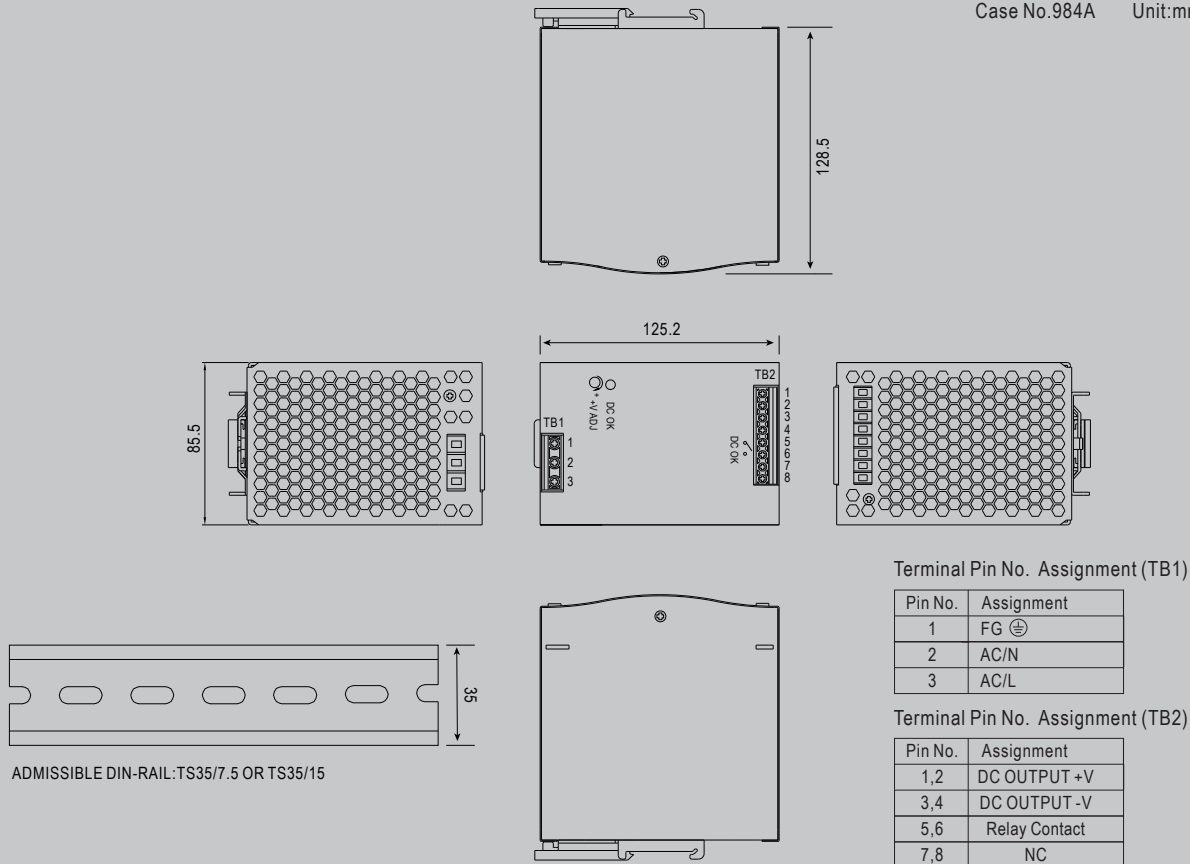
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple and noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.
3. Tolerance: includes set up tolerance, line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

SDR-480 Series

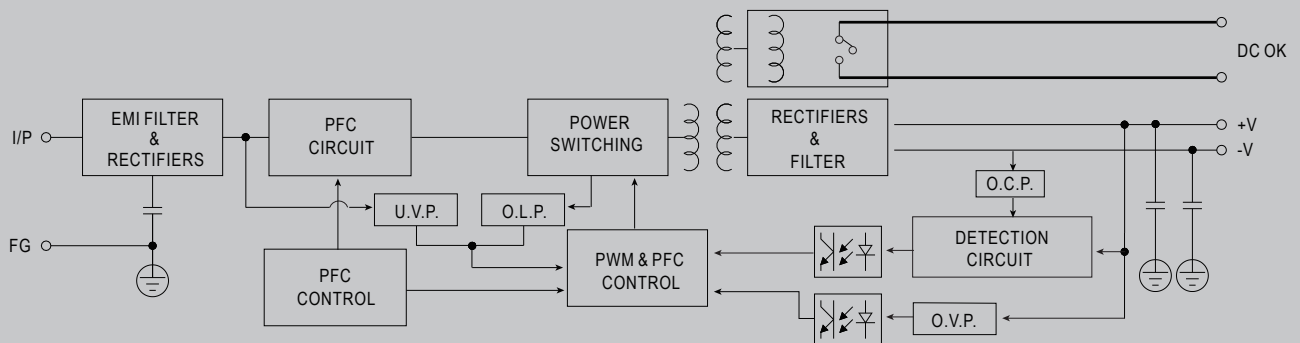
480W Single Output Industrial DIN RAIL with PFC Function
Power Supply

Mechanical Specification

Case No.984A Unit:mm



Block Diagram



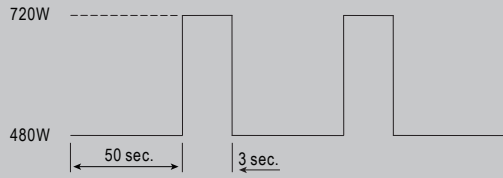
Contact Close	PSU turns on / DC OK.
Contact Open	PSU turns off / DC Fail.
Contact Ratings (max.)	30V/1A resistive load.

SDR-480 Series

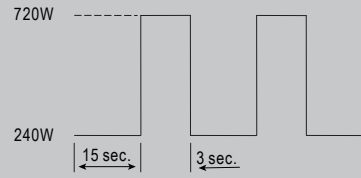
480W Single Output Industrial DIN RAIL with PFC Function
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Peak Loading

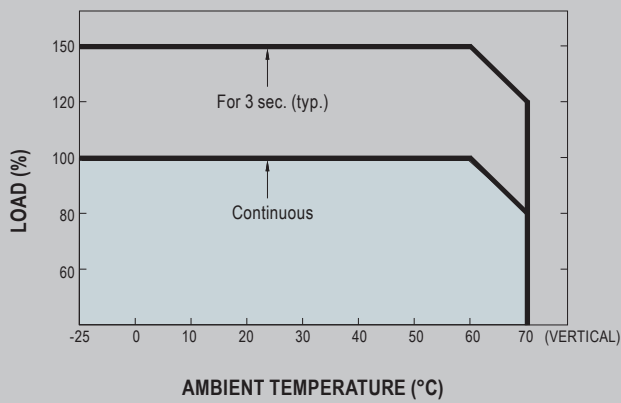
(1)



(2)



Derating Curve



Output derating VS input voltage

