



480W Single Output Industrial DIN RAIL with PFC Function

SDR-480 series



■ 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
- Cooling by free air convection
- Built-in constant current limiting circuit
- 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
- Built-in DC OK relay contact
- 100% full load burn-in test
- 3 years warranty

User's Manual



■ GTIN CODE

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

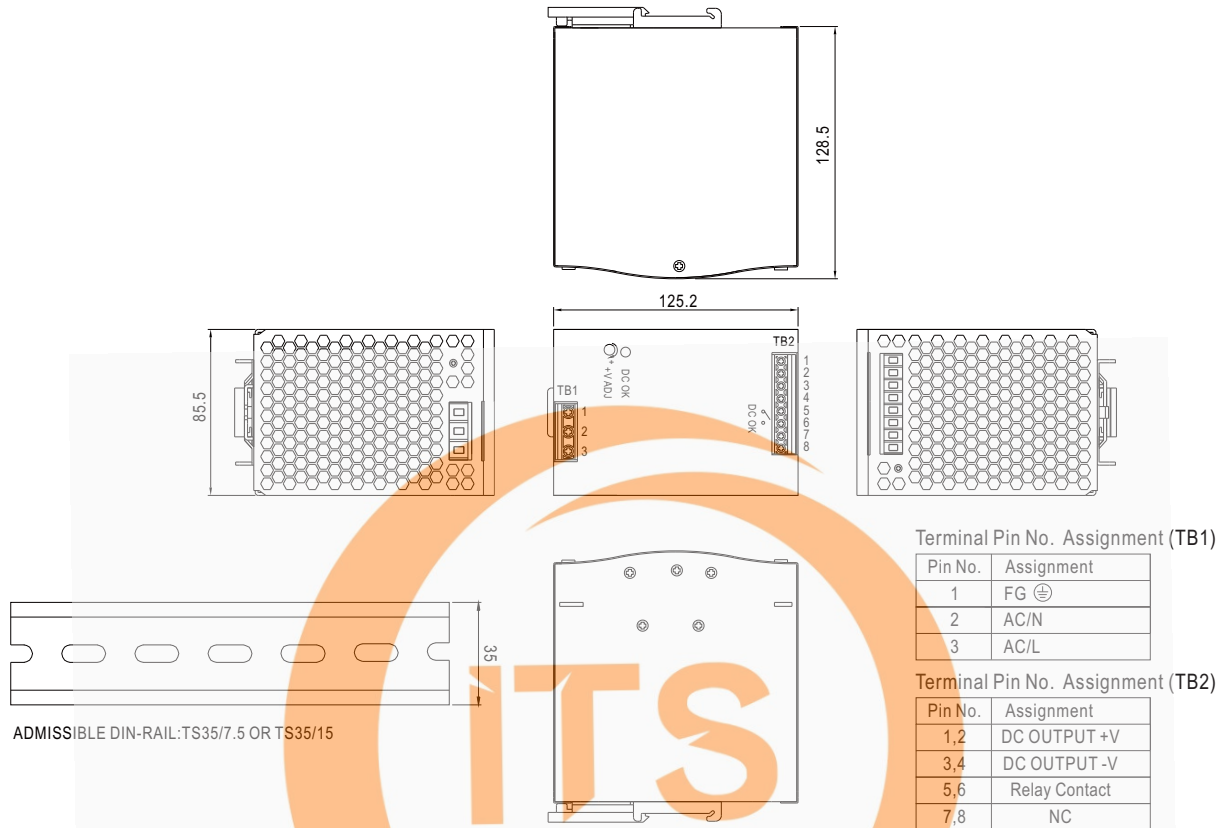
SPECIFICATION



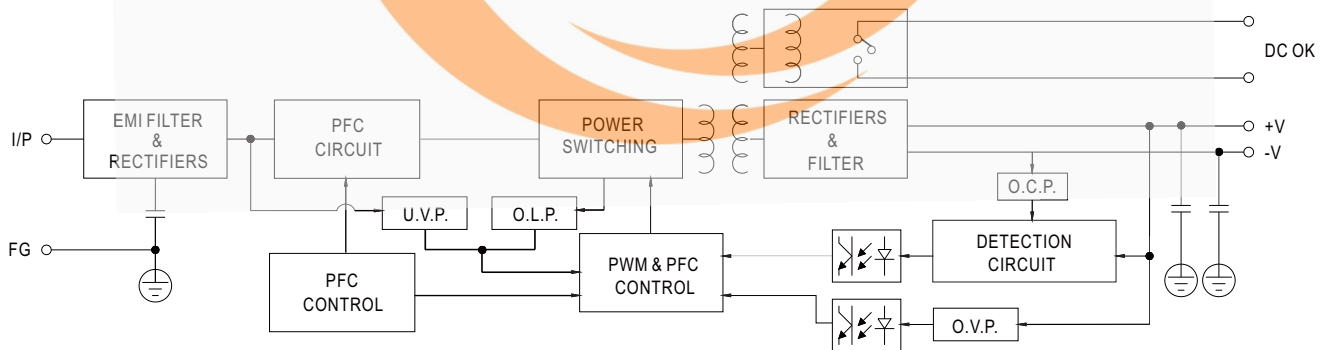
MODEL		SDR-480-24		SDR-480-48	
OUTPUT	DC VOLTAGE	24V		48V	
	RATED CURRENT	20A		10A	
	CURRENT RANGE	0 ~ 20A		0 ~ 10A	
	RATED POWER	480W		480W	
	PEAK CURRENT	30A		15A	
	PEAK POWER	Note.6	720W (3sec.)		
	RIPPLE & NOISE (max.)	Note.2	100mVp-p		120mVp-p
	VOLTAGE ADJ. RANGE		24 ~ 28V		48 ~ 55V
	VOLTAGE TOLERANCE	Note.3	± 1.2%		± 1.0%
	LINE REGULATION		± 0.5%		± 0.5%
	LOAD REGULATION		± 1.0%		± 1.0%
INPUT	SETUP, RISE TIME	1500ms, 150ms/230VAC		3000ms, 150ms/115VAC at full load	
	HOLD UP TIME (Typ.)	14ms/230VAC at full load			
	VOLTAGE RANGE	Note.7	90 ~ 264VAC 127 ~ 370VDC		
	FREQUENCY RANGE		47 ~ 63Hz		
	POWER FACTOR (Typ.)		0.94/230VAC 0.99/115VAC at full load		
	EFFICIENCY (Typ.)		94%		
	AC CURRENT (Typ.)		5A/115VAC 2.5A/230VAC		
	INRUSH CURRENT (Typ.)		40A/115VAC 80A/230VAC		
PROTECTION	LEAKAGE CURRENT	<0.8mA / 240VAC			
	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 to shut down if over 2 seconds			
	OVER VOLTAGE	29 ~ 33V		56 ~ 65V	
	OVER TEMPERATURE	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.	Note.5	-25 ~ +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 ~ 50°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 , BSMI CNS14336-1 approved ; (meet BS EN/EN60204-1)			
	WITHSTAND VOLTAGE	I/P-O/P: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 BS EN/EN55032 (CISPR32), BS EN/EN61204-3 Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020, CNS13438			
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	964.2K hrs min. Telcordia SR-332 (Bellcore) ; 91.9K hrs min. MIL-HDBK-217F (25°C)			
	DIMENSION	85.5*125.2*128.5mm (W*H*D)			
	PACKING	1.6Kg; 8pcs/13.8Kg/0.9CUFT			

Case No.984A Unit:mm

Mechanical Specification



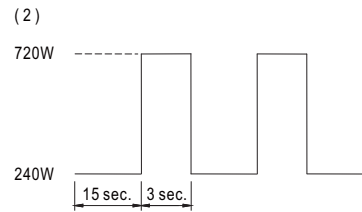
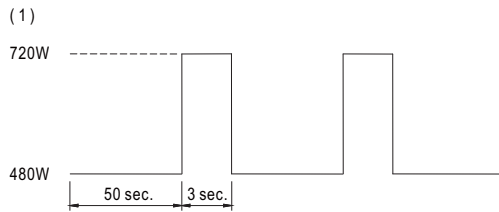
Block Diagram



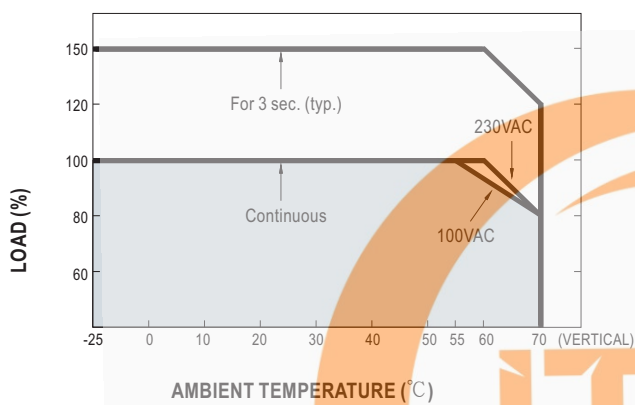
DC OK Relay Contact

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

■ Peak Loading



■ Derating Curve



■ Output derating VS input voltage

