



SDR-480P series





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

■ Features :

- Current sharing up to 3840W(7+1)
- 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

SPECIFICATION

GTIN CODE

MODEL		SDR-480P-24	SDR-480P-48
	DC VOLTAGE	24V	48V
ОИТРИТ	RATED CURRENT	20A	10A
	CURRENT RANGE	0 ~ 20A	0 ~ 10A
	RATED POWER	480W	480W
	PEAK CURRENT	30A	15A
	PEAK POWER Note.6	720W (3sec.)	10/1
	RIPPLE & NOISE (max.) Note.2		120mVp-p
	VOLTAGE ADJ. RANGE	24 ~ 28V	48 ~ 55V
	VOLTAGE TOLERANCE Note.3		±1.0%
	LINE REGULATION	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±1.0%
	SETUP, RISE TIME	1500ms, 150ms/230VAC 3000ms, 150ms/115VAC at full loa	
	,	14ms/230VAC at full load	
INPUT	HOLD UP TIME (Typ.)		
	FREQUENCY RANGE	47 ~ 63Hz	
	POWER FACTOR (Typ.)	0.94/230VAC 0.99/115VAC at full load	
	EFFICIENCY (Typ.)	94% EA/44EVAC 2 EA/220VAC	
	AC CURRENT (Typ.)	5A/115VAC 2.5A/230VAC	
	INRUSH CURRENT (Typ.)	40A/115VAC 80A/230VAC	
	LEAKAGE CURRENT	<0.6mA / 240VAC	
PROTECTION	OVERLOAD Normally works within 110 ~ 150% rated output power for more than 3 seconds and then shut down o/p voltage with		
		>150% rated power, constant current limiting with auto-recovery with	
	OVER VOLTAGE	29 ~ 33V	56 ~ 65V
		Protection type: Shut down o/p voltage with auto-recovery or re-power on to recovery	
	OVER TEMPERATURE	105°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 REALY CONTACT RATINGS (max.)	60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load	
	CURRENT SHARING	Please see the Function Manual	
ENVIRONMENT	WORKING TEMP. Note.5	* '	
	WORKING HUMIDITY	20 ~ 95% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH	
	TEMP. COEFFICIENT	$\pm 0.03\%^{\circ}$ C (0 ~ 50 $^{\circ}$ C)	
	VIBRATION	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6	
	SAFETY STANDARDS	UL508, TUV BS EN/EN62368-1, AS/NZS 62368.1, EAC TP TC 004, BSMI CNS15598-1 approved	
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC O/P-DC OK:0.5KVAC	
EMC (Note 4)	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) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020, CNS15936	
	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	
OTHERS	MTBF	969.8K hrs min. Telcordia SR-332 (Bellcore) ; 118.6K hrs min. MIL-HDBK-217F (25°C)	
		85.5*125.2*128.5mm (W*H*D)	
OTHERS	DIMENSION	, ,	
OTHERS	DIMENSION PACKING	1.6Kg; 8pcs/13.8Kg/0.9CUFT	

- 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/EMI_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 peak power max. and the average output power should not exceed the rate power.
- 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

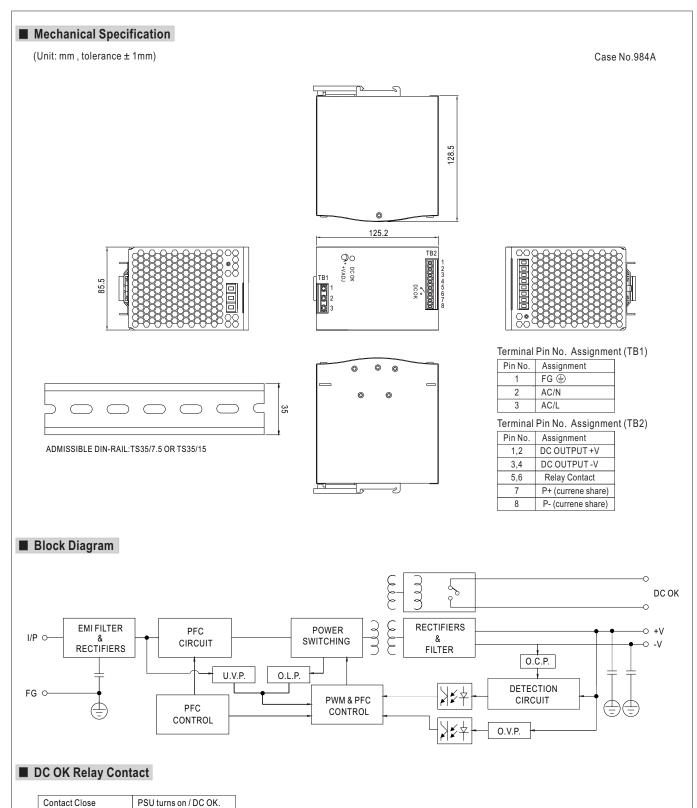


Contact Open

Contact Ratings (max.)

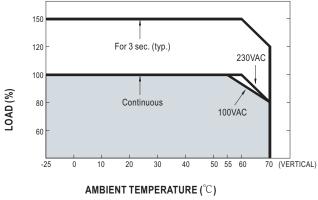
PSU turns off / DC Fail.

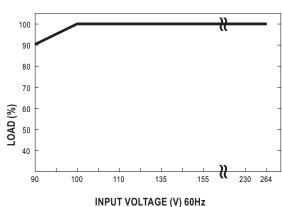
30V/1A resistive load.





■ Peak Loading (2) (1) 720W 720W 480W 240W 50 sec. 3 sec. 15 sec. 3 sec. ■ Output derating VS input voltage ■ Derating Curve





■ Function Manual

- 1. Current sharing
 - (1)Parallel operation is available by connecting the units shown as below (P+,P- are connected mutually in parallel):
 - (2) The voltage difference among each output should be minimized that less than 0.2V is required.
 - (3) The total output current must not exceed the value determined by the following equation (Output current at parallel operation)
 - =(The rated current per unit) x (Number of unit) x 0.9.
- (4)In parallel operation 8 units is the maximum, please consult the manufacture for other applications.
- (5) When in parallel operation, the minimum output load should be greater than 3% of total output load.
 - (Min. load > 3% rated current per unit x number of unit)

