Authorized Distributor: Total Power International, Inc. Toll Free: 877-646-0900(US)PH# (978) 453-7272 www.total-power.com



## 480W Single Output Industrial DIN RAIL with PFC and Parallel Function **SDR-480P** series



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
- EN61000-6-2(EN50082-2) industrial immunity level
- Built-in DC OK relay contact
- 100% full load burn-in test
- 150% peak load capability
- 3 years warranty



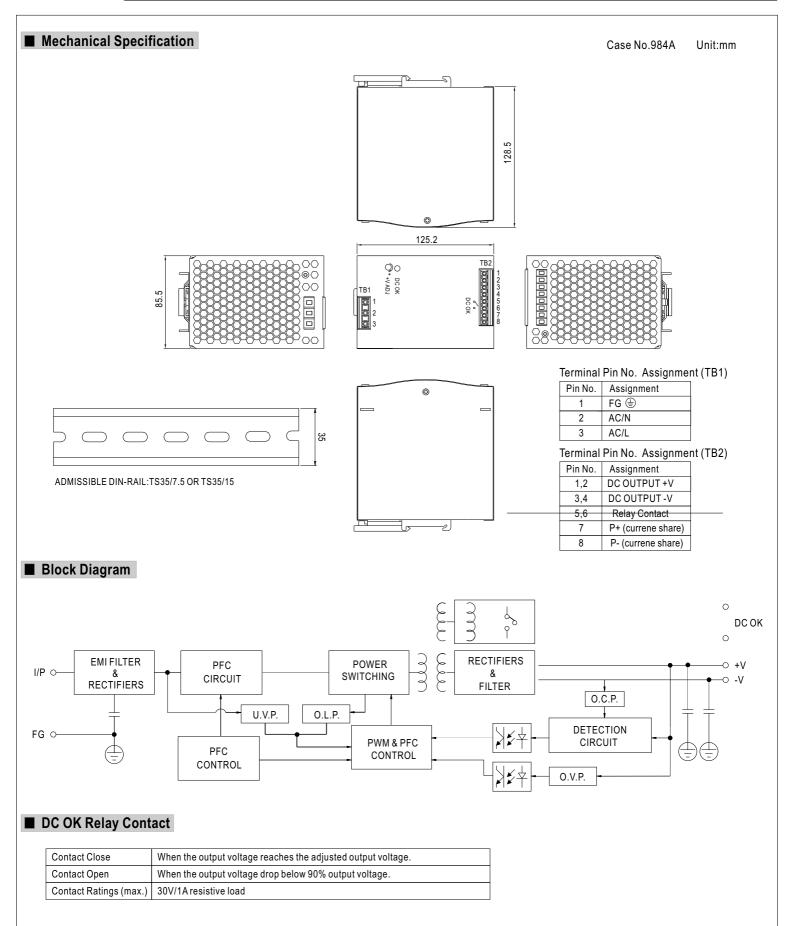
## SPECIFICATION

MODEL		SDR-480P-24	SDR-480P-48	
	DC VOLTAGE	24V	48V	
OUTPUT	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		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		
	HOLD UP TIME (Typ.)	14ms/230VAC at full load		
		90 ~ 264VAC 127 ~ 370VDC		
INPUT	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		
	LEAKAGE CURRENT	<0.6mA/240VAC		
PROTECTION		Normally works within 110 ~ 150% rated output power for more than 3 seconds and then shut down o/p voltage with auto-recovery		
	OVERLOAD	Normany works within 110 ~ 150 % rated output power for more than 3 seconds and then shut down of p vortage 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		
		Protection type : Shut down o/p voltage with auto-recovery or re-		
	OVER TEMPERATURE	$105^{\circ}C\pm5^{\circ}C$ (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.) CURRENT SHARING			
	WORKING TEMP. Note.5			
ENVIRONMENT	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 STANDARDS	UL508, TUV EN60950-1 approved		
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC O/P-DC OK:0.5KVAC		
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH		
EMC	EMI CONDUCTION & RADIATION			
(Note 4) HARMONIC CURRENT Compliance to EN61000-3-2,-3				
	Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, EN55024, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level,			
	EMS IMMUNITY	criteria A, SEMI F47 approved		
OTHERS	MTBF	112.9Khrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	85.5*125.2*128.5mm (W*H*D)		
	PACKING	1.6Kg; 8pcs/13.8Kg/0.9CUFT		
NOTE	<ol> <li>All parameters NOT special</li> <li>Ripple &amp; noise are measure</li> <li>Tolerance : includes set up</li> <li>The power supply is consid EMC directives.</li> <li>Installation clearances : 40r In case the adjacent device</li> <li>3 seconds peak power max</li> </ol>	ecially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. asured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. t up tolerance, line regulation and load regulation. Insidered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets t 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power. evice is a heat source, 15mm clearance is recommended. max. and the average output power should not exceed the rate power. ad under low input voltage. Please check the derating curve for more details.		

Authorized Distributor: Total Power International, Inc. Toll Free: 877-646-0900(US) PH# (978) 453-7272 www.total-power.com

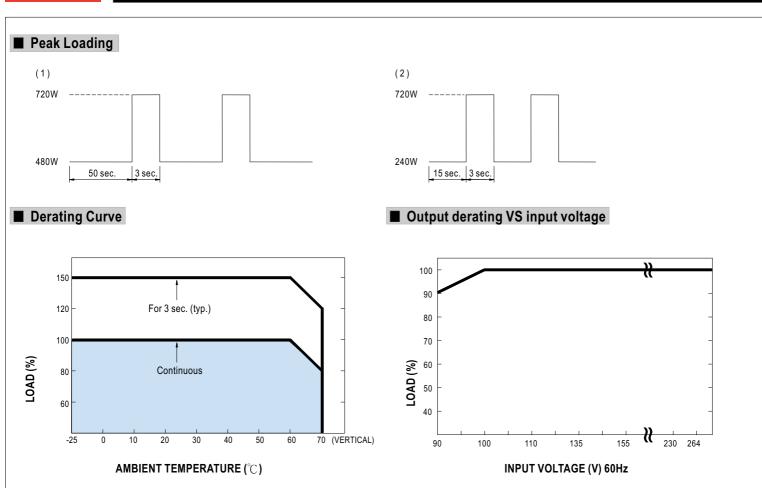


480W Single Output Industrial DIN RAIL with PFC and Parallel Function SDR-480P series





480W Single Output Industrial DIN RAIL with PFC and Parallel Function **SDR-480P** 



## 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  $\pm 2\%$  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)

