



#### 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







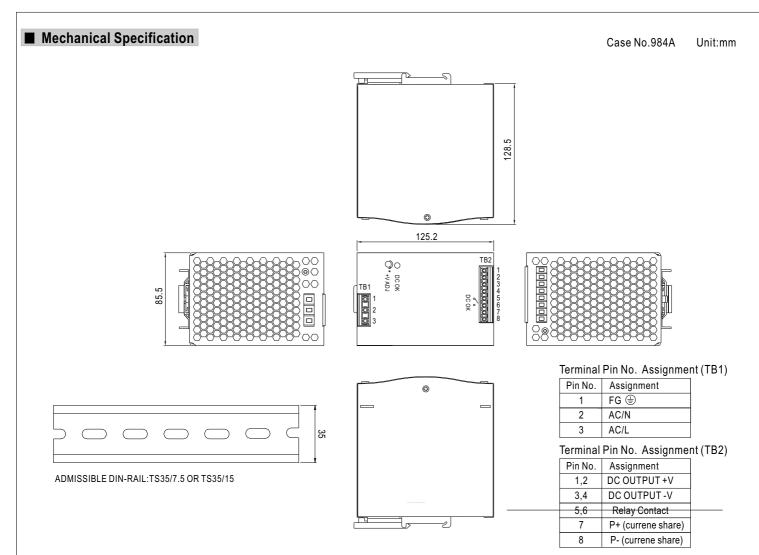


#### **SPECIFICATION**

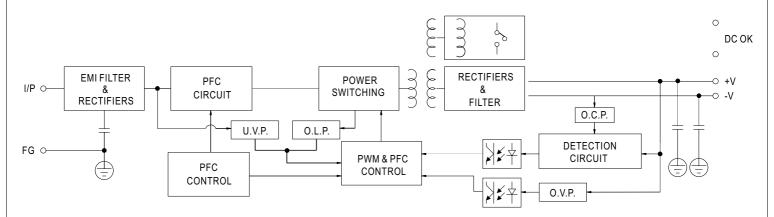
MODEL		SDR-480P-24	SDR-480P-48	
-	DC VOLTAGE	24V	48V	
ОИТРИТ	RATED CURRENT	20A	10A	
	CURRENT RANGE	0~20A	0~10A	
	RATED POWER	480W	480W	
	PEAK CURRENT	30A	15A	
			15A	
	PEAK POWER Note.6	720W (3sec.)	120m\/n n	
	RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE		120mVp-p	
		24 ~ 28V	48 ~ 55V	
	VOLTAGE TOLERANCE 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 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		
INPUT	EFFICIENCY (Typ.)	94%		
	AC CURRENT (Typ.)	5A/115VAC 2.5A/230VAC		
	INRUSH CURRENT (Typ.)	40A/115VAC 80A/230VAC		
	LEAKAGE CURRENT	<0.6mA / 240VAC		
PROTECTION	AV/==1 A 4 =	Normally works within 110 ~ 150% rated output power for more than 3 seconds and then shut down o/p voltage with auto-recovery		
	OVERLOAD	>150% rated power, constant current limiting with auto-recovery within 2 seconds and may cause to shut down if over 2 seconds		
		29 ~ 33V	56 ~ 65V	
	OVER VOLTAGE	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.)	00/41/004-00/41/44-00/4-/0541-411-4		
	CURRENT SHARING	Please see the Function Manual		
ENVIDONMENT	WORKING TEMP. Note.5	25 T205 (D.f. ) 1 1 1 1 1 1		
	WORKING HUMIDITY	20 ~ 95% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH		
ENVIRONMENT	TEMP. COEFFICIENT			
	VIBRATION	±0.03%/°C (0 ~ 50°C)  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		
SAFETY & EMC		I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC O/P-DC OK:0.5KVAC		
	WITHSTAND VOLTAGE			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°€ / 70% RH		
	EMI CONDUCTION & RADIATION			
(Note 4)	HARMONIC CURRENT	Compliance to EN61000-3-2,-3		
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, EN55024, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level, criteria A , SEMI F47, GL 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>Ripple &amp; noise are measure</li> <li>Tolerance : includes set up</li> </ol>	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  to tolerance, line regulation and load regulation.  dered 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, 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





### ■ Block Diagram

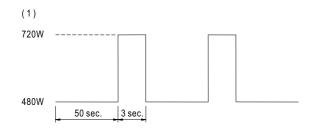


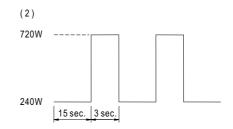
### ■ DC OK Relay Contact

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

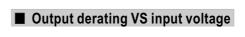


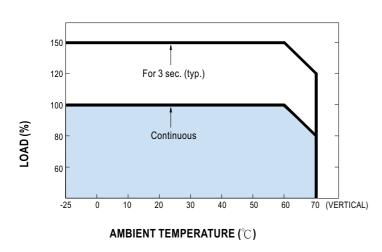
# ■ Peak Loading

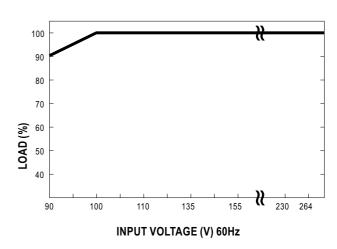




## ■ Derating Curve







#### **■** 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)

