

PS-C480P Series With Parallel Function **Specifications**











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 / Overtemperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- DIN rail mountable
- Current sharing up to 380W (1+7)
- 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 year warranty

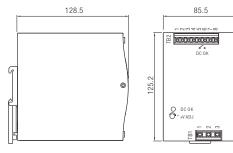
OUTPUT	Cat. No.	PS-C480P24	PS-C480P48	
	DC VOLTAGE RATED CURRENT	24V 20A	48V 10A	
	CURRENT RANGE	0 ~ 20A	0 ~ 10A	
	RATED POWER	480W	480W	
	PEAK CURRENT	30A	15A	
	PEAK POWER	720W (3 sec.)		
		3 seconds peak power max. and the average output power	r should not exceed the rate power	
	RIPPLE & NOISE (max)	100mVp-p	120mVp-p	
		Ripple & noise are measured at 20MHz of bandwidth by using	g a 12 twisted pair-wire terminated with a 0.1µF & 47µF parallel capacitor.	
	VOLTAGE ADJ. RANGE	24 ~ 28V	48 ~ 55V	
	VOLTAGE TOLERANCE	±1.2%	±1.0%	
	LINE REGULATION	Tolerance: includes set up tolerance, line regulation and lo	ad regulation. $\pm 0.5\%$	
	LOAD REGULATION	±0.5% ±1.0%	±1.0%	
INPUT	SETUP, RISE, HOLD UP TIME		oms, 150ms / 115VAC at full load	
	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC	mio, roomo / rrow to at rain toda	
	VOLIAGE HANGE	Derating may be needed under low input voltages, please	check the derating curve for more detail	
	FREQUENCY RANGE	47 ~ 63Hz	oneon the defaulty carre to more domin	
	POWER FACTOR (Typ.)	0.94 / 230VAC 0.99 / 115VAC at full load	d	
	EFFICIENCY (Typ.)	94%		
		After 30 minutes of burn-in.		
	AC CURRENT (max.)	5A / 115VAC 2.5A / 230VAC		
PROTECTION	INRUSH CURRENT (Typ.) LEAKAGE CURRENT	40A / 115VAC 80A / 230VAC ≤ 0.6 mA / 240VAC		
PROTECTION			the standard of the standard o	
	OVERLOAD	down overvoltage with auto-recovery	utput power for more than 3 seconds and then shut	
		· ·	ng with auto-recovery within 2 seconds and shut	
		down overvoltage after 2 seconds	ng mar data 1000vory maint 2 0000ndo and onde	
	OVERVOLTAGE	29 ~ 33V	56 ~ 65V	
		Protection type: Shut down overvoltage with auto-recovery	on re-power on to recovery	
	OVERTEMPERATURE	$105^{\circ}\text{C} \pm 5^{\circ}\text{C}$ (TSW: detect on heat sink of po	•	
	CURRENT CHARING	Protection type: Shut down overvoltage, re-power automat	ically after temperature goes down	
ENVIRONMENT	CURRENT SHARING DC OK RELAY CONTACT RATINGS (max.)	Please see function diagram 60VDC / 0.3A; 30VDC / 1A; 30VAC / 0.5A re	cictive load	
ENVIRONMENT	WORKING TEMP.			
	WORKING TEIVIF.	-25 ~ +70°C (Refer to output load derating of Installation clearances: 40mm on top, 20mm on the botton	n, 5mm on the left and right side are recommended when loaded	
		permanently with full power. In case the adjacent device is		
	WORKING HUMIDITY	20 ~ 95% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH		
	TEMP. COEFFICIENT VIBRATION	±0.03% / °C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cycle, 60 min. eac	h long Y V 7 aves	
SAFETY & EMC	MOUNTING	Compliance to IEC60068-2-6	il long A, I, Z axes	
<u> </u>	SAFETY STANDARDS	UL508		
	O'U ETT O'U UDU UTDO	EN60950-1 compliant		
	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC 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)		
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B		
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3	THUESONA ENERGOA ENGLOSS S. S. SENESSES S.	
	EMS IMMUNITY		ENV50204; EN55024; EN61000-6-2; (EN50082-2),	
		EN61204-3; heavy industry level; criteria A,	SEIVIL F47, GL APPROVEU stalled into a final equipment. The final equipment must be	
OTHERS		re-confirmed that it still meets EMC directives.	estalled into a final equipment. The final equipment must be	
	MTBF	112.9K hrs min. MIL-HDBK-217K (25°C)		
	DIMENSION	85.5x125.2x128.5mm (WxHxD)		
	PACKING	1.6Kg; 8pcs / 13.8Kg / 0.9CUFT	200140	
		All parameters NOT specially mentioned are measured at 2	230V AC input, rated load and 25°C of ambient temperature.	

Mechanical Specification

Pin No.	Assignment	
1	FG ⊕	
2	AC/N	
3	AC/L	

Terminal Pin No. Assignment (TB1) Terminal Pin No. Assignment (TB2)

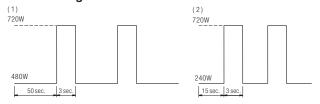
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Pin No.	Assignment		
1,2	DC OUTPUT +V		
3,4	DC OUTPUT -V		
5,6	Relay Contact		
7	P+ (current share)		
8	P- (current share)		



DC OK Relay Contact

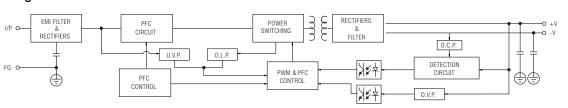
Contact Close	When the output voltage reaches the adjusted output voltage.	
Contact Open	When the output voltage drop below 90% output voltage.	
Contact Ratings (max.)	30V/1A resistive load	

Peak Loading



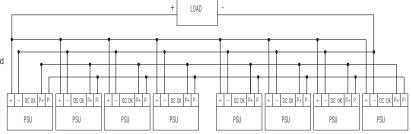
DC OK

Block Diagram

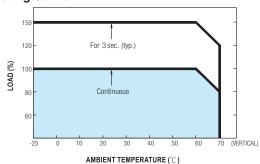


Function Diagram

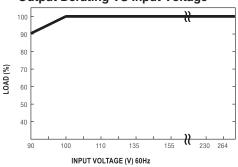
- 1. Current sharing
- (1)Parallel operation is available by connecting the units shown as below (P+,P- are connected mutually in parallel):
- (2)The voltage difference among each output should be minimized that less than 2% is required.
- (3)The total output current must not exceed the value determined 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)



Derating Curve



Output Derating VS Input Voltage



Note: All dimensions are in millimeters, to convert to inches multiply by 0.03937.

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PS-C480P24