

PST-480 Series Specifications

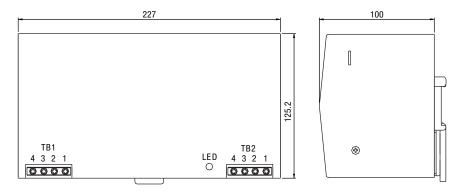


Features:

- Three-Phase AC 340 ~ 550V wide range input
- High efficiency 89% and low dissipation
- Protections: Short Circuit / Overload / Over Voltage / Overtemperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- DIN rail mountable
- UL 508(industrial control equipment)approved
- EN61000-6-2(EN50082-2) industrial immunity level
- 100% full load burn-in test
- 3 year warranty

OUTPUT	Cat. No.	PST-48024 PST-48048	
	DC VOLTAGE RATED CURRENT CURRENT RANGE	24V 48V 20A 10A 0 ~ 20A 0 ~ 10A	
	RATED POWER RIPPLE & NOISE (max)	480W 480W 80mVp-p 80mVp-p	
	VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE	Ripple & noise are measured at 20MHz of bandwidth by using a 12 twisted pair-wire terminated with a 0.1μ F & 47μ F parallel capacitor. $24 \sim 28V$ $48 \sim 55V$ $\pm 1.0\%$ $\pm 1.0\%$ Tolerance: includes set up tolerance, line regulation and load regulation.	
INPUT	LINE REGULATION LOAD REGULATION SETUP, RISE, HOLD UP TIME	$ \begin{array}{c} \pm 0.5\% \\ \pm 0.5\% \\ 1200\text{ms}, 40\text{ms}, 16\text{ms} / 400\text{VAC}; 800\text{ms}, 40\text{ms}, 35\text{ms} / 500\text{VAC} \text{ at full load} \end{array} $	
	VOLTAGE RANGE FREQUENCY RANGE EFFICIENCY (Typ.) AC CURRENT INRUSH CURRENT (Typ.)	Three Phase 340 ~ 550VAC (Dual Phase operation possible)480 ~ 780VDCDual phase operation: derating of 20% is required47 ~ 63Hz89%90%1.7A / 400VAC; 1.3A / 500VACCOLD START 50A	
PROTECTION	LEAKAGE CURRENT OVERLOAD	≤ 3.5mA / 530VAC 105 ~ 150% rated output power	
	OVERVOLTAGE	Protection type: Constant current limiting, recovers automatically after fault condition is removed 30 ~ 36V 59 ~ 66V Protection type: Shut down overvoltage, re-power on to recover	
ENVIRONMENT	OVERTEMPERATURE	110°C \pm 5°C (TSW) detect on heat sink of power switch Protection type: Shut down overvoltage, recovers automatically after temperature goes down	
SAFETY & EMC	WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION MOUNTING	-20 ~ +70°C (Refer to output load derating curve) 20 ~ 90% RH non-condensing -40 ~ +85°C, 10 ~ 95% RH ±0.03% / °C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cycle, 60 min. each long X,Y, Z axes Compliance to IEC60068-2-6	
OTHERS	SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMI CONDUCTION & RADIATION HARMONIC CURRENT EMS IMMUNITY	UL508 EN60950-1 compliant UL60950-1 I/P-0/P: 3KVAC I/P-FG: 1.5KVAC 0/P-FG: 0.5KVAC I/P-0/P, I/P-FG, 0/P-FG: 100M 0hms / 500VDC (25°C: 70% RH) Compliance to EN55011 (CISPR11), EN55022 (CISPR22), EN61204-3 Class B Compliance to EN61000-3-2,-3 Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204; EN61204-3; EN61000-6-2; (EN50082-2), heavy industry level; criteria A The power supply is considered a component which will installed into a final equipment. The final equipment must be re-confirment that it still meets EMC directives.	
	MTBF DIMENSION PACKING	91.1K hrs min. MIL-HDBK-217K (25°C) 227x125.2x100mm (WxHxD) 2.5Kg; 6pcs / 16Kg / 1.75CUFT All parameters NOT specially mentioned are measured at 400VAC input, rated load and 25°C of ambient temperature.	

Mechanical Specification

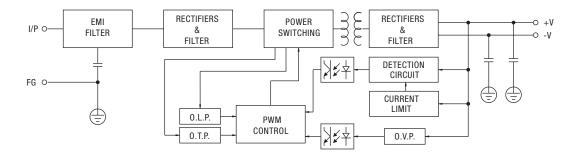


TB1 Terminal Pin. No Assignment

FIIINU.	Assignment
1	AC/L1
2	AC/L2
3	AC/L3
4	FG 🕀

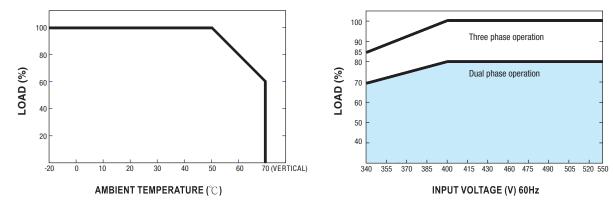
TB2 Terminal Pin. No Assignment					
	Pin No.	Assignment			
	1,2	DCOUTPUT+V			
	3,4	DCOUTPUT-V			

Block Diagram









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