

PST-960 Series

Specifications









Features:

- Three-Phase AC 340 ~ 550V wide range input
- High efficiency 91% and low dissipation
- Protections: Short Circuit / Overload / Over Voltage / Overtemperature
- Optional parallel function(1+1)
- · Cooling by free air convection
- 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

α		т	וח		•
	ш		ы		
	u			•	

INPUT

PROTECTION

ENVIRONMENT

SAFETY & EMC

OTHERS

110

Cat. No. PST-96024 / PST-960P24* PST-96048 / PST-960P48*

DC VOLTAGE	24V	48V
RATED CURRENT	40A	20A
CURRENT RANGE	0 ~ 40A	0 ~ 20A
RATED POWER	960W	960W
RIPPLE & NOISE (max)	80mVp-p	80mVp-p

Ripple & noise are measured at 20MHz of bandwidth by using a 12 twisted pair-wire terminated with a 0.1µF & 47µF parallel capacitor.

VOLTAGE ADJ. RANGE 24 ~ 28V 48 ~ 55V **VOLTAGE TOLERANCE** ±1.0%

Tolerance: includes set up tolerance, line regulation and load regulation.

LINE REGULATION ±0.5% ±0.5% LOAD REGULATION +0.5% +0.5%

SETUP, RISE, HOLD UP TIME 200ms, 60ms, 14ms / 400VAC 200ms, 60ms, 30ms / 500VAC at full load

VOLTAGE RANGE Three Phase 340 ~ 550VAC (Dual Phase operation possible in connecting L1, L3, FG) Dual phase operation (connecting L1, L3, FG) is allowed under certain derating to output load. Please refer to the derating curves for details.

FREQUENCY RANGE 47 ~ 63Hz EFFICIENCY (Typ.) 91%

92%

AC CURRENT 2A / 400VAC; 1.6A / 500VAC INRUSH CURRENT (Typ.) COLD START 50A

LEAKAGE CURRENT ≤ 3.5 mA / 530VAC **OVERLOAD** 105 ~ 125% rated output power

Protection type: Constant current limiting, unit will shut down overvoltage after 3 sec., re-power on to recover

OVERVOLTAGE $30 \sim 36V$ 59 ~ 66V Protection type: Shut down overvoltage, re-power on to recover

OVERTEMPERATURE $110^{\circ}\text{C} \pm 5^{\circ}\text{C}$ (TSW1) detect on heat sink of power transistor

 $85^{\circ}C \pm 5^{\circ}C$ (TSW2) detect on heat sink of power diode

Protection type: Shut down overvoltage, recovers automatically after temperature goes down

WORKING TEMP. -20 ~ +60°C (Refer to output load derating curve)

WORKING HUMIDITY 20 ~ 90% RH non-condensing -40 ~ +85°C, 10 ~ 95% RH STORAGE TEMP.. HUMIDITY TEMP. COEFFICIENT ±0.03% / °C (0 ~ 50°C)

VIBRATION 10 ~ 500Hz, 2G 10min./1cycle, 60 min. each long X,Y, Z axes

MOUNTING Compliance to IEC60068-2-6

SAFETY STANDARDS UL508

EN60950-1 compliant UL60950-1

WITHSTAND VOLTAGE ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC (25°C; 70% RH)

EMI CONDUCTION & RADIATION Compliance to EN55011 (CISPR11), EN55022 (CISPR22), EN61204-3 Class B

HARMONIC CURRENT Compliance to EN61000-3-2,-3

EMS IMMUNITY 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-confirmed

that it still meets EMC directives.

MTBF 122.5K hrs min. MIL-HDBK-217K (25°C)

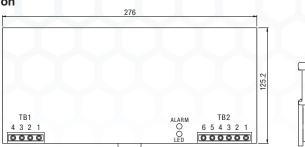
DIMENSION 276x125.2x100mm (WxHxD) **PACKING** 3.3Kg; 4pcs / 14.2Kg / 1.14CUFT

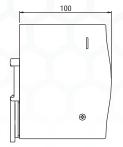
All parameters NOT specially mentioned are measured at 400VAC input, rated load and 25°C of ambient temperature.

^{*}Special order required.









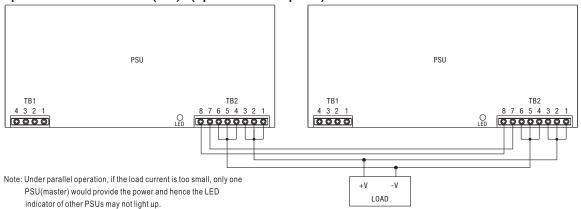
TB1 Terminal Pin. No Assignment

Pin No.	Assignment	
1	AC/L1	
2	AC/L2	
3	AC/L3	
4	FG⊕	
		_

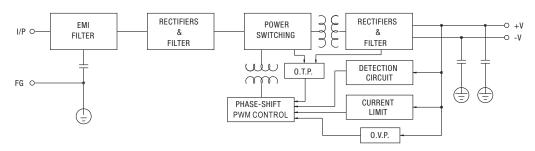
TB2 Terminal Pin. No Assignment

Assignment	
DCOUTPUT+V	
DCOUTPUT - V	
	Davallal Only
P (Current Share)	Parallel Only
	DCOUTPUT+V

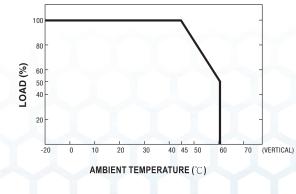
Optional Parallel Function (1+1) - (Special order required)



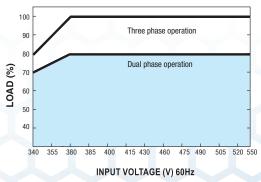
Block Diagram



Derating Curve



Output Derating VS Input Voltage



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

PSC Class 2 Series

PSA FIEX SEries

PSB Flex Series

PS-S Slim Series

PS TOM be Long by Book of Selection Broad Broad

PS Industrial Series

PSC8WSeries

CBI Type

CB Type Chargers

Accessories

Appendix

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for DIN Rail Power Supplies category:

Click to view products by Altech manufacturer:

Other Similar products are found below:

PS-3015 PSP-480S48 PSR-SD25 PS-S6024 DR-45-24 DRP048V120W1BA DVP01PU-S DVP06AD-S DVP06XA-S DVPDNET-SL
DVPDT01-S DVPPS01 DVPPS02 KHNA30F-5 KHNA60F-24 S8JX-G01524 S8JX-G01548C S8JX-G03512D S8VS-09024B-F PS-6012
PS9Z-5R1G PS-C24024 PSC-9648 5607189 KHNA30F-24 KHNA480F-24 KHNA90F-12 KHNA90F-24 DVP08ST11N DVPACAB530
DVPCOPM-SL DVPEN01-SL DVPPF01-S S8JX-G10012 S8JX-G15024 CBI1210A SS14011524 S8JX-G01505C S8TS-06024-E1 PSS2012 PSW-12024 PS-UPS40 PSC-6024 S8VS-48024A-F PSD-A60W12 96PS-A120WDIN PSD-A60W48 S8JX-G03515CD PSDA40W12 PSD-A40W24