samlexamerica®

3000W

DC-AC Inverter
Pure Sine Wave

Model

PST-3000-12
12 VDC- 120 VAC

PST-3000-24
24 VDC- 120 VAC

PST-3000-48
48 VDC- 120 VAC



Clean and reliable AC Power identical to household electricity. Engineered for reliable mobile power, delivering clean AC output, high efficiency and extended run time.

Design Features

- Pure sine wave output with <3% THD for sensitive electronics and motor-driven loads
- High efficiency with ultra-low idle current for extended runtime
- 6000 W surge power for reliable startup of demanding loads
- Hardwire-ready with dual GFCI-protected AC outlets
- Optional remote control with ignition-controlled ON/OFF capability
- Universal Protection Circuit (UPC) and temperature-controlled cooling fan for dependable mobile power

3 YEAR LIMITED WARRANTY

	MODEL NO.	PST-3000-12	PST-3000-24	PST-3000-48
OUTPUT	OUTPUT VOLTAGE	120 VAC ± 3%		
	MAXIMUM OUTPUT CURRENT	25 A		
	OUTPUT FREQUENCY	60 Hz ± 1%		
	TYPE OF OUTPUT WAVEFORM	Pure Sine Wave		
	TOTAL HARMONIC DISTORTION OF OUTPUT WAVEFORM	< 3%		
	CONTINUOUS OUTPUT POWER (At Power Factor = 1)	3000 Watts		
	SURGE OUTPUT POWER	6000 Watts		
	PEAK EFFICIENCY	> 85%	> 88%	> 90%
	AC OUTPUT CONNECTIONS	(i) NEMA5-20R GFCI Duplex Receptacle (ii) Terminal block for hardwiring: Hole diameter (4 mm / 0.16") and Set Screw (#6 x 40 TPI or M3.5 x 0.6 mm Pitch)		
INPUT	NOMINAL DC INPUT VOLTAGE	12 V	24 V	48 V
	DC INPUT VOLTAGE RANGE	10.7 - 16.5 VDC	21.4 - 33 VDC	42.0 - 60.0 VDC
	MAXIMUM INPUT CURRENT	360 A	180 A	120 A
	DC INPUT CURRENT AT NO LOAD	< 1.6 A	< 1.0 A	<0.7 A
	DC INPUT CONNECTIONS	Bolt & Nut: 5/16" x 18 TPI		
	DC INPUT FUSES (INTERNAL) (Automotive, Blade Type)	12 X 30 A = 360 A (Each 30 A, 32 V)	12 x 15 A = 180 A (Each 15 A, 32 V)	12 x 10 A = 120 A (Each 10 A, 58 V)
DISPLAY	LED	Power, Overload, Over Temperature		
PROTECTIONS	LOW DC INPUT VOLTAGE ALARM	10.7 V ± 0.1V	21.4 V ± 0.2 V	42 V ±0.4 V
	LOW DC INPUT VOLTAGE SHUTDOWN	10 V ± 0.1 V; Auto-reset: 11.5 V ± 0.3 V	20 V ± 0.2 V; Auto-reset: 23 V ± 0.5 V	40 V ± 0.4 V; Auto-reset: 46 V ± 1.0 V
	HIGH DC INPUT VOLTAGE SHUTDOWN	> 17 V; Auto-reset: < 17 V	> 34 V; Auto-reset: < 34 V	> 64 V ; Auto-reset: < 64 V
	SHORT CIRCUIT SHUTDOWN	When output voltage drops to 80 VAC or lower for 1 to 1.5 sec		
	OVERLOAD SHUTDOWN	At overload of 110% to 115% for 2 to 2.5 sec		
	GROUND FAULT SHUTDOWN	Only on GFCI outlets (5 to 6 mA leakage)		
	OVER TEMPERATURE SHUTDOWN	90 °C ± 5 °C / 194 °F ± 41 °F (Sensed at Transformer T3); Auto reset at 65 °C ± 5 °C / 149 °F ± 41 °F		
	REVERSE POLARITY ON DC INPUT SIDE	External/internal DC sides fuses will blow		
REMOTE	WIRED REMOTE CONTROL WITH LED / LED DISPLAY WIRED ON / OFF CONTROL	RC-300 (sold separately) with 25' cable (i) By switching external contact (ii) By switching external 12 V / 24 V / 48 V signal		
COOLING	FORCED AIR COOLING	Temperature controlled fan (Sensed at Transformer T6) Fan ON at 55 °C ± 3 °C / 131 °F ± 37.4 °F; Fan OFF at 45 °C ± 3 °C / 113 °F ± 37.4 °F		
COMPLIANCE	SAFETY	Intertek - ETL Listed. Conforms to UL Std 458 & CSA Std C22.2 No. 107.1		
	EMI / EMC	FCC Part 15 (B), Class A		FCC Part 15 (B), Class B
	HAZARDOUS SUBSTANCE RESTRICTION	RoHS Compliant (Lead Free)		
ENVIRONMENT	OPERATING TEMPERATURE RANGE	-20 to 40 °C / -4 to 104 °F		
	STORAGE TEMPERATURE	-30 to 70 °C / -22 to 158 °F		
	RELATIVE HUMIDITY	90%, non-condensing		
DIMENSIONS	(W X D X H), MM / INCHES	263 x 456.5 x 145 / 10.35 x 17.97 x 5.7		
WEIGHT	KG / LB	9.8 / 21.6		

NOTES: 1. All power ratings are specified for resistive load at Power Factor = 1.
2. All specifications given above are at ambient temperature of 25 °C / 77 °F.
3. Specifications are subject to change without notice