



samlexamerica®

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

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

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

3 YEAR LIMITED WARRANTY



MODEL NO.		PST-3000-12	PST-3000-24	PST-3000-48
OUTPUT	OUTPUT VOLTAGE		120 VAC $\pm$ 3%	
	MAXIMUM OUTPUT CURRENT		25 A	
	OUTPUT FREQUENCY		60 Hz $\pm$ 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 $\pm$ 0.1 V	21.4 V $\pm$ 0.2 V	42 V $\pm$ 0.4 V
	LOW DC INPUT VOLTAGE SHUTDOWN	10 V $\pm$ 0.1 V; Auto-reset: 11.5 V $\pm$ 0.3 V	20 V $\pm$ 0.2 V; Auto-reset: 23 V $\pm$ 0.5 V	40 V $\pm$ 0.4 V; Auto-reset: 46 V $\pm$ 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 $\pm$ 5 °C / 194 °F $\pm$ 41 °F (Sensed at Transformer T3); Auto reset at 65 °C $\pm$ 5 °C / 149 °F $\pm$ 41 °F		
	REVERSE POLARITY ON DC INPUT SIDE	External/internal DC sides fuses will blow		
REMOTE	WIRED REMOTE CONTROL WITH LED / LED DISPLAY	RC-300 (sold separately) with 25' cable		
	WIRED ON / OFF CONTROL	(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 $\pm$ 3 °C / 131 °F $\pm$ 37.4 °F; Fan OFF at 45 °C $\pm$ 3 °C / 113 °F $\pm$ 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

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