samlexamerica®

2000W



DC-AC Inverter
Pure Sine Wave

Models

PST-2000-12
12 VDC- 120 VAC

PST-2000-24
24 VDC- 120 VAC

PST-2000-48
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
- 3500 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-2000-12	PST-2000-24	PST-2000-48
OUTPUT	OUTPUT VOLTAGE	120 VAC ± 3%		
	MAXIMUM OUTPUT CURRENT	16.7 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)	2000 Watts		
	SURGE OUTPUT POWER	3500 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 - 64.0 VDC
	MAXIMUM INPUT CURRENT	240 A	120 A	60 A
	DC INPUT CURRENT AT NO LOAD	< 1.0 A	< 0.8 A	< 0.5 A
	DC INPUT CONNECTIONS	Bolt & Nut: 5/16" x 18 TPI		
	DC INPUT FUSES (INTERNAL) (Automotive, Blade Type)	6 x 40 A = 240 A (Each 40 A, 32 V)	6 x 20 A = 120 A (Each 20 A, 32 V)	3 x 20 A = 60 A (Each 20 A, 58 V)
DISPLAY	LED	Power, Overload, Over Temperature		
PROTECTIONS	LOW DC INPUT VOLTAGE ALARM	10.7 V ± 0.1 V	21.4 V ± 0.2V	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	16.5 V; Auto-reset: < 16.5 V	33V; Auto-reset: < 33 V	64 V; Auto-reset: < 64 V
	SHORT CIRCUIT SHUTDOWN	When output voltage drops to 80 V 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	Through GFCI outlets (5 to 6 mA leakage)		
	OVER TEMPERATURE SHUTDOWN	90 °C ± 5 °C (Sensed at internal hot spot); Auto reset at 65 °C ± 5 °C		
	REVERSE POLARITY ON DC INPUT SIDE	External/internal DC sides fuses will blow		
REMOTE	WIRED REMOTE CONTROL (OPTIONAL)	• RC-300 (Sold separately) with LCD/LED Display. 25' / 7.6 m cable connected through modular jack (10P10C)		
	WIRED ON/OFF CONTROL	• 2-Wire and 1-Wire On/Off control connected through hard wiring terminal block		
COOLING	FORCED AIR COOLING	2 Temperature controlled fans (Temperature is sensed at internal hot spot) 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 Standard 458 and certified to CSA Std. C22.2 No. 107.1		
	EMI/EMC	FCC Part 15 (B), Class B		
	HAZARDOUS SUBSTANCE	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		
	STORAGE TEMPERATURE	90%, non-condensing		
DIMENSIONS	(W X D X H), MM	263.0 x 468.2 x 105.6		
	(W X D X H), INCHES	10.35 x 18.43 x 4.16		
WEIGHT	KG / LB	7.1 / 15.6		

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