



samlexamerica®

DC-AC Inverter Pure Sine Wave

Model

PST-2000-12
12 VDC - 120 VAC

PST-2000-24
24 VDC - 120 VAC

Design Features

- High efficiency
- Can be hard wired
- Temperature controlled cooling fan – reduces energy consumption
- Low RF emissions
- Wide operating DC input range:
10.7 - 16.5 VDC / 21.4 - 33.0 VDC
- Commercial grade design suitable for heavy duty loads, long periods of continuous operation & for emergency back up
- UPC – Universal Protection Circuit: low voltage, over voltage, over temperature, over load and short circuit.
- Low idle power draw
- Dual GFCI protected AC outlets
- Optional remote control (sold separately): Model RC-300
- Safety certified to UL & CSA standards, FCC compliant
- Remote Input – Use to turn inverter ON or OFF with ignition start or any other Remote ON/OFF switch

3 YEAR LIMITED WARRANTY



MODEL NO.		PST-2000-12	PST-2000-24
OUTPUT	OUTPUT VOLTAGE	120 VAC $\pm$ 3%	120 VAC $\pm$ 3%
	MAXIMUM OUTPUT CURRENT	16.7A	16.7A
	OUTPUT FREQUENCY	60 Hz $\pm$ 1%	60 Hz $\pm$ 1%
	TYPE OF OUTPUT WAVEFORM	Pure Sine Wave	Pure Sine Wave
	TOTAL HARMONIC DISTORTION OF OUTPUT WAVEFORM	< 3%	< 3%
	CONTINUOUS OUTPUT POWER (At Power Factor = 1)	2000 Watts	2000 Watts
	SURGE OUTPUT POWER	3500 Watts (< 8 ms)	3500 Watts (< 8 ms)
	PEAK EFFICIENCY	> 85%	> 85%
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 40TPI or M3.5 x 0.6 mm Pitch)	
INPUT	NOMINAL DC INPUT VOLTAGE	12V	24V
	DC INPUT VOLTAGE RANGE	10.7 - 16.5 VDC	21.4 - 33 VDC
	MAXIMUM INPUT CURRENT	240A	120A
	DC INPUT CURRENT AT NO LOAD	< 1.0A	< 0.8A
	DC INPUT CONNECTIONS	Bolt & Nut: 5/16" x 18 TPI	Bolt & Nut: 5/16" x 18 TPI
DC INPUT FUSES (INTERNAL)		6 x 40A = 240A (Each 40A, 32V, Automotive, Blade Type)	6 x 20A = 120A (Each 20A, 32V, Automotive, Blade Type)
DISPLAY	LED	Power, Overload, Over Temperature	Power, Overload, Over Temperature
PROTECTIONS	LOW DC INPUT VOLTAGE ALARM	10.7V $\pm$ 0.1V	21.4V $\pm$ 0.2V
	LOW DC INPUT VOLTAGE SHUTDOWN	10V $\pm$ 0.1V ; Auto-reset: 11.5V $\pm$ 0.3V	20V $\pm$ 0.2V ; Auto-reset: 23V $\pm$ 0.5V
	HIGH DC INPUT VOLTAGE SHUTDOWN	16.5V ; Auto-reset: < 16.5V	33V ; Auto-reset: < 33V
	SHORT CIRCUIT SHUTDOWN	When output voltage drops to 80V 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 $\pm$ 5°C (Sensed at internal hot spot) ; Auto reset at 65°C $\pm$ 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 25' cable	
	WIRED ON / OFF CONTROL	(i) By switching external contact (ii) By switching external 12V/24V signal	
COOLING	FORCED AIR COOLING	2 Temperature controlled fans (Temperature is sensed at internal hot spot) Fan ON at 55°C $\pm$ 3°C; Fan OFF at 45°C $\pm$ 3°C	
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	
ENVIRONMENT	OPERATING TEMPERATURE RANGE	Operating temperature -20 to 40°C / -4 to 104°F	
		Storage temperature -30 to 70°C / -22 to 158°F 90% relative humidity non-condensing	
DIMENSIONS	(W X D X H), MM	263.0 x 468.2 x 105.6	263.0 x 468.2 x 105.6
	(W X D X H), INCHES	10.35 x 18.43 x 4.16	10.35 x 18.43 x 4.16
WEIGHT	KG / LB	7.1 / 15.6	7.1 / 15.6

NOTE: Specifications are subject to change without notice

12001-PST-2000-12-24-0322