



**samlexamerica®**

# 1500W



**DC-AC Inverter**  
**⚡ Pure Sine Wave**

**Model**  
**PST-1500-48**  
**48 VDC - 120 VAC**

### Design Features

- High efficiency
- 200% Surge Power
- Can be hard wired
- Temperature controlled cooling fan – reduces energy consumption
- Low RF emissions
- Wide operating DC input range: 42.0 - 64.0 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
- Duplex GFCI protected AC outlets
- Optional remote control (sold separately): Model RC-300
- FCC compliant

**3 YEAR LIMITED WARRANTY**



	<b>MODEL NO.</b>	<b>PST-1500-48</b>
<b>OUTPUT</b>	OUTPUT VOLTAGE	120 VAC ± 3%
	MAXIMUM OUTPUT CURRENT	12.5A
	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)	1500 Watts
	SURGE OUTPUT POWER	3000 Watts (< 8 ms)
	PEAK EFFICIENCY	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 40TPI or M3.5 x 0.6 mm Pitch)
<b>INPUT</b>	NOMINAL DC INPUT VOLTAGE	48 VDC
	DC INPUT VOLTAGE RANGE	42.0 - 64.0 VDC
	MAXIMUM INPUT CURRENT	50A
	DC INPUT CURRENT AT NO LOAD	< 0.5A
	DC INPUT CONNECTIONS	Bolt & Nut: 5/16" x 18 TPI
<b>DISPLAY</b>	DC INPUT FUSES (INTERNAL)	5 x 10A = 50A (Each 10A, 58V, Blade Type)
<b>PROTECTIONS</b>	LED	Power, Overload, Over Temperature
	LOW DC INPUT VOLTAGE ALARM	42.0V ± 0.5V
	LOW DC INPUT VOLTAGE SHUTDOWN	40.0 ± 0.5 VDC ; Auto-reset: 46.0 ± 0.5 VDC
	HIGH DC INPUT VOLTAGE SHUTDOWN	64.0 VDC ; Auto-reset: < 64.0 VDC
	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	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	
<b>REMOTE</b>	WIRED REMOTE CONTROL WITH LED / LCD DISPLAY	RC-300 with 7.62 m / 25 ft cable (sold separately)
<b>COOLING</b>	FORCED AIR COOLING	2 Temperature controlled fans (Temperature is sensed at internal hot spot ; Fan ON at 55°C ± 3°C ; Fan OFF at 45°C ± 3°C)
<b>COMPLIANCE</b>	EMI / EMC	FCC Part 15(B), Class B
<b>ENVIRONMENT</b>	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
<b>DIMENSIONS</b>	(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
<b>WEIGHT</b>	KG / LBS	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

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