



**samlexamerica®**

# 150W



## DC-AC Inverter Pure Sine Wave

Model	PST-150-12
	12 VDC - 120 VAC
	PST-150-24
	24 VDC - 120 VAC

## Design Features

- High efficiency
- 2x surge
- Temperature controlled cooling fan – reduces energy consumption
- Low RF emissions
- Wide operating DC input range: 10.5 - 16.5 VDC / 21.0 - 33.0 VDC
- LED indicators for power and protections
- Low idle power draw
- Two AC outlets
- 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.
- Detachable cable with 12V plug adapter (12V models only)
- Detachable cable with battery clamps
- Safety certified to UL & CSA standards, FCC compliant

**3 YEAR LIMITED WARRANTY**



	MODEL NO.	PST-150-12	PST-150-24
OUTPUT	OUTPUT VOLTAGE	120 VAC $\pm$ 3%	120 VAC $\pm$ 3%
	MAXIMUM OUTPUT CURRENT	1.25A	1.25A
	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)	150 Watts	150 Watts
	SURGE OUTPUT POWER	300 Watts (< 8 ms)	300 Watts (< 8 ms)
	PEAK EFFICIENCY	87%	89%
INPUT	AC OUTPUT CONNECTIONS	2 x NEMA5-15R Outlets	2 x NEMA5-15R Outlets
	NOMINAL DC INPUT VOLTAGE	12V	24V
	DC INPUT VOLTAGE RANGE	10.5 - 16.5 VDC	21 - 33 VDC
	MAXIMUM INPUT CURRENT	20A	10A
	DC INPUT CURRENT AT NO LOAD	< 500 mA	< 400 mA
DISPLAY	DC INPUT CONNECTIONS	Tubular Type Screw Down Terminals	Tubular Type Screw Down Terminals
	LED	Power, Abnormal	Power, Abnormal
PROTECTIONS	LOW DC INPUT VOLTAGE ALARM	10.5V	21V
	LOW DC INPUT VOLTAGE SHUTDOWN	10V ; Auto reset at 11.5V	20V; Auto reset at 23V
	HIGH DC INPUT VOLTAGE SHUTDOWN	16.5V ; Auto reset at < 16.5V	33V ; Auto reset at < 33V
	SHORT CIRCUIT SHUTDOWN	When output voltage drops to 80VAC for 5 sec	
	OVERLOAD SHUTDOWN	At overload of 110% to 115% for 2 to 2.5 sec	
	GROUND FAULT SHUTDOWN	Yes (Load should be powered using power cord with NEMA5-15P plug)	
	OVER TEMPERATURE SHUTDOWN	At internal hot spot Temp of 95°C ; Auto reset at 70°C	
	REVERSE POLARITY ON DC INPUT SIDE	Internal DC side fuse will blow	
COOLING	INTERNAL DC SIDE FUSE	Automotive Blade Type; 32V; Interrupting Capacity 1000A @ 23V; Littell Fuse Type "ATO", 287 Series 20A / 32V	10A / 32V
	FORCED AIR COOLING	Temperature Controlled Fan - ON at internal hot spot $\geq$ 48°C ; OFF at 42°C	
COMPLIANCE	SAFETY	Intertek - ETL Listed. Conforms to UL STD 62368-1; Certified to CSA STD. C22-2 No. 62368-1.	
	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	155 x 211 x 65.5	155 x 211 x 65.5
	(W x D x H), INCHES	6.1 x 8.31 x 2.58	6.1 x 8.31 x 2.58
WEIGHT	KG	1.27	1.27
	LBS	2.8	2.8