



## DC-AC Inverter Pure Sine Wave

Model	PST-300-12
	12 VDC- 120 VAC
	PST-300-24
	24 VDC- 120 VAC

## Design Features

- High efficiency
- 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
- Dual GFCI protected 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
- Detachable cable with battery clamps
- 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-300-12	PST-300-24
OUTPUT	OUTPUT VOLTAGE	120 VAC $\pm$ 3%	120 VAC $\pm$ 3%
	MAXIMUM OUTPUT CURRENT	2.54A	2.54A
	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)	300 Watts	300 Watts
	SURGE OUTPUT POWER	500 Watts (< 8 ms)	500 Watts (< 8 ms)
	PEAK EFFICIENCY	87%	89%
	AC OUTPUT CONNECTIONS	NEMA5-20R GFCI Duplex Outlets	NEMA5-20R GFCI Duplex Outlets
INPUT	NOMINAL DC INPUT VOLTAGE	12V	24V
	DC INPUT VOLTAGE RANGE	10.5 - 16.5 VDC	21 - 33 VDC
	MAXIMUM INPUT CURRENT	40A	20A
	DC INPUT CURRENT AT NO LOAD	< 500 mA	< 400 mA
	DC INPUT CONNECTIONS	Hole diameter: 5mm ; Set screw: #10, 24TPI	
DISPLAY	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 or lower for 5 sec.	
	OVERLOAD SHUTDOWN	At overload of 110% to 115% for 2 to 2.5 sec	
	GROUND FAULT SHUTDOWN	Through NEMA5-20R GFCI Duplex Outlets	
	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	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 ANSI/UL Standard 458; Certified to CSA STD. C22-2 No. 107.1-01.	
	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 246 x 65.5	155 x 246 x 65.5
	(W X D X H), INCHES	6.1 x 9.69 x 2.58	6.1 x 9.69 x 2.58
WEIGHT	KG	1.57	1.57
	LBS	3.46	3.46