



3000W
samlexamerica®



DC-AC Inverter
Pure Sine Wave

Model
PST-300S-12E
12 VDC - 230 VAC
PST-300S-24E
24 VDC - 230 VAC

Design Features

- 50 / 60 Hz (Switch selectable: 50 Hz default)
- 200% Surge
- AC output: Hard-wiring and Schuko outlet
- Wide ranges for DC input voltage and operating temperature
- ON/OFF control through contact closure / DC control signal
- Optional wired Remote Control with LCD display



	MODEL NO.	PST-300S-12E	PST-300S-24E
OUTPUT	OUTPUT VOLTAGE	230 VAC ± 3%	230 VAC ± 3%
	MAXIMUM OUTPUT CURRENT	13.04A	13.04A
	OUTPUT FREQUENCY	50 / 60 Hz ± 1% : Switch Selectable (Default 50 Hz)	
	TYPE OF OUTPUT WAVE	Pure Sine Wave	Pure Sine Wave
	TOTAL HARMONIC DISTORTION OF OUTPUT WAVEFORM	< 3%	< 3%
	CONTINUOUS OUTPUT POWER (At Power Factor = 1)	3000 Watts	3000 Watts
	SURGE OUTPUT POWER	6000 Watts (< 8 ms)	6000 Watts (< 8 ms)
	PEAK EFFICIENCY	> 88% (At full load)	> 90% ((At full load)
	OUTPUT CONNECTIONS	(i) European "Schuko", CEE 7/3 AC Receptacle (ii) Terminal block for hardwiring	
INPUT	NOMINAL DC INPUT VOLTAGE	12V	24V
	DC INPUT VOLTAGE RANGE	10.7 - 16.5 VDC	21.4 - 33 VDC
	MAXIMUM INPUT CURRENT	420A	240A
	DC INPUT CURRENT AT NO LOAD	< 1.6A	< 1.0A
	DC INPUT CONNECTIONS	Bolt & Nut: 5/16" x 18 TPI	Bolt & Nut: 5/16" x 18 TPI
	DC INPUT FUSES (INTERNAL)	12 X 35A = 420A (Each Type ATC, 32V, 35A)	12 x 20A = 240A (Each Type ATC, 32V, 20A)
DISPLAY	LED	Power, Overload, Over Temperature	Power, Overload, Over Temperature

NOTES: (i) Specifications are subject to change without notice.
(ii) All specifications are at ambient temperature of 25°C / 77°F

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MODEL NO.		PST-300S-12E	PST-300S-24E
PROTECTIONS	LOW DC INPUT VOLTAGE ALARM	10.7V ± 0.1V	21.4V ± 0.2V
	LOW DC INPUT VOLTAGE SHUTDOWN	10V ± 0.1V ; Auto-reset: 11.5V ± 0.3V	20V ± 0.2V ; Auto-reset: 23V ± 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 170VAC or lower for 1 to 1.5 sec	
	OVERLOAD SHUTDOWN	At overload of 110% to 115% for 2 to 2.5 sec	
	OVER TEMPERATURE SHUTDOWN	90°C ± 5°C (Sensed at Transformer T3) ; Auto reset at 65°C ± 5°C	
	REVERSE POLARITY ON DC INPUT SIDE	External / internal DC sides fuses will blow	
CONTROL REMOTE	WIRED REMOTE CONTROL WITH LED / LED DISPLAY	RC-300 (sold separately) with 25' of cable	
	WIRED ON / OFF CONTROL	(i) By switching external contact (ii) By switching external 12V/24V signal	
COOLING	FORCED AIR COOLING	Temperature controlled fan (Sensed at Transformer T6) Fan ON at 55°C ± 3°C; Fan OFF at 45°C ± 3°C	
COMPLIANCE	EUROPEAN CONFORMITY	CE marked	
	SAFETY	European Low Voltage Directive 2014/35/EU • Standard : EN 60950-1	
	EMC	European EMC Directive 2014/30/EU per following Standards: • EMI: EN55022, Class A ; EN61000-3-2, -3-3 • EMS: EN55024; EN61000-4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -4-11	
ENVIRONMENT	WORKING ENVIRONMENT	Indoor use	
	OPERATING TEMPERATURE RANGE	-20°C to 40°C / -4°F to 104°F	-20°C to 40°C / -4°F to 104°F
	RELATIVE HUMIDITY	Up to 85%, non condensing	
DIMENSIONS	(W X D X H), MM	263 x 456.5 x 145	263 x 456.5 x 145
	(W X D X H), IN	10.35 x 17.97 x 5.71	10.35 x 17.97 x 5.71
WEIGHT	KG / LB	9.8 / 21.6	9.8 / 21.6

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