



## DC-AC Inverter Pure Sine Wave

|       |                 |
|-------|-----------------|
| Model | PST-600-12      |
|       | 12 VCC- 120 VCA |
|       | PST-600-24      |
|       | 24 VCC- 120 VCA |
|       | PST-600-48      |
|       | 48 VCC- 120 VCA |

### Design Features

- Pure sine wave output with <3% THD for sensitive electronics and appliances
- High efficiency with ultra-low idle current for extended runtime
- 1000 W surge power for reliable startup of demanding loads
- Dual GFCI-protected AC outlets for safe, convenient operation
- Optional remote control with ignition-controlled ON/OFF capability
- Universal Protection Circuit (UPC) and temperature-controlled cooling fan for dependable mobile power

**3 YEAR LIMITED WARRANTY**



| MODEL NO.                 |                                               | PST-600-12                                                                                                                      | PST-600-24                                        | PST-600-48                                        |
|---------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
| OUTPUT                    | OUTPUT VOLTAGE                                | 120 VAC $\pm$ 3%                                                                                                                |                                                   |                                                   |
|                           | MAXIMUM OUTPUT CURRENT                        | 5.1 A                                                                                                                           |                                                   |                                                   |
|                           | OUTPUT FREQUENCY                              | 60 Hz $\pm$ 1%                                                                                                                  |                                                   |                                                   |
|                           | TYPE OF OUTPUT WAVEFORM                       | Pure Sine Wave                                                                                                                  |                                                   |                                                   |
|                           | TOTAL HARMONIC DISTORTION OF OUTPUT WAVEFORM  | < 3%                                                                                                                            |                                                   |                                                   |
|                           | CONTINUOUS OUTPUT POWER (At Power Factor = 1) | 600 Watts                                                                                                                       |                                                   |                                                   |
|                           | SURGE OUTPUT POWER                            | 1000 Watts                                                                                                                      |                                                   |                                                   |
|                           | PEAK EFFICIENCY                               | > 85%                                                                                                                           | > 88%                                             | > 90%                                             |
| AC OUTPUT CONNECTIONS     |                                               | NEMA5-20R GFCI Duplex Outlets                                                                                                   |                                                   |                                                   |
| INPUT                     | NOMINAL DC INPUT VOLTAGE                      | 12 V                                                                                                                            | 24 V                                              | 48 V                                              |
|                           | DC INPUT VOLTAGE RANGE                        | 10.7 - 16.5 VCC                                                                                                                 | 21.4 - 33 VCC                                     | 42.0 - 60 VDC                                     |
|                           | MAXIMUM INPUT CURRENT                         | 80 A                                                                                                                            | 40 A                                              | 20 A                                              |
|                           | DC INPUT CURRENT AT NO LOAD                   | < 600 mA                                                                                                                        | < 450 mA                                          | < 300 mA                                          |
|                           | DC INPUT CONNECTIONS                          | Tubular hole diameter: 7/16", Set screw 5/16" x 24 TPI 1/2" long, slotted.                                                      |                                                   |                                                   |
| DC INPUT FUSES (INTERNAL) |                                               | 80 A, 32 V                                                                                                                      | 40 A, 32 V                                        | 20 A, 58 V                                        |
| DISPLAY                   | LED                                           | Power, Overload, Over Temperature                                                                                               |                                                   |                                                   |
| PROTECTIONS               | LOW DC INPUT VOLTAGE ALARM                    | 10.7 V $\pm$ 0.1 V                                                                                                              | 21.4 V $\pm$ 0.2 V                                | 42 V $\pm$ 0.4 V                                  |
|                           | LOW DC INPUT VOLTAGE SHUTDOWN                 | 10 V $\pm$ 0.1 V;<br>Auto-reset: 11.5 V $\pm$ 0.3 V                                                                             | 20 V $\pm$ 0.2 V;<br>Auto-reset: 23 V $\pm$ 0.5 V | 40 V $\pm$ 0.4 V;<br>Auto-reset: 46 V $\pm$ 1.0 V |
|                           | HIGH DC INPUT VOLTAGE SHUTDOWN                | 17 V; Auto-reset: < 17 V                                                                                                        | 34 V; Auto-reset: < 34 V                          | 64 V; Auto-reset: < 64 V                          |
|                           | SHORT CIRCUIT SHUTDOWN                        | When output voltage drops to 80 V or lower                                                                                      |                                                   |                                                   |
|                           | OVERLOAD SHUTDOWN                             | At overload of 110% to 115%                                                                                                     |                                                   |                                                   |
|                           | GROUND FAULT SHUTDOWN                         | Through GFCI outlets (5 to 6 mA leakage)                                                                                        |                                                   |                                                   |
|                           | OVER TEMPERATURE SHUTDOWN                     | 90 °C $\pm$ 5 °C ; Auto reset at 65 °C $\pm$ 5 °C                                                                               |                                                   |                                                   |
|                           | REVERSE POLARITY ON DC INPUT SIDE             | Internal DC (ATO) fuses will be blown                                                                                           |                                                   |                                                   |
| REMOTE                    | WIRED REMOTE CONTROL (OPTIONAL)               | • Remote Control Model RC-15A with LED display & 5 m / 16.5 ft cable connected through Modular Jack Connector (6P6C) (optional) |                                                   |                                                   |
|                           | WIRED ON/OFF CONTROL                          | • 2-Wire & 1-Wire On/Off control connected through Hardwiring Terminal Block                                                    |                                                   |                                                   |
| COOLING                   | FORCED AIR COOLING                            | Temperature controlled fan<br>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               | HAZARDOUS SUBSTANCE RESTRICTION               | RoHS Compliant (Lead Free)                                                                                                      |                                                   |                                                   |
|                           | OPERATING TEMPERATURE RANGE                   | -20 to 40 °C / -4 to 104 °F                                                                                                     |                                                   |                                                   |
|                           | STORAGE TEMPERATURE                           | -30 to 70 °C / -22 to 158 °F                                                                                                    |                                                   |                                                   |
|                           | RELATIVE HUMIDITY                             | 90%, non-condensing                                                                                                             |                                                   |                                                   |
| DIMENSIONS                | (W X D X H), MM / (W X D X H), INCHES         | 238 x 276.2 x 82 / 9.37 x 10.87 x 3.23                                                                                          |                                                   |                                                   |
| WEIGHT                    | KG / LBS                                      | 2.7 / 5.9                                                                                                                       |                                                   |                                                   |

#### 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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