

1000VA, Low-profile, Conduction Cooled Sine Wave Output Inverter for Industrial and Harsh-Environment Applications PSI 1000-XX SERIES

- Compact design
- Sinusoidal output voltage
- 1000VA output power
- Full electronic protection
- Field-proven design topology
- Filtered input



The PSI 1000-XX Series compact, low-profile DC/AC inverter utilizes established design techniques to deliver 1000VA sine wave voltage. Suitable for a wide range of applications, the PSI 1000-XX features full electronic protection, high efficiency and low output noise. Internal modules are encapsulated within a thermally conductive MIL-spec silicon rubber compound to ensure resistance against shock, vibration, moisture, humidity, salt, fog, dust, and insects. The unit is conduction cooled. The demonstrated MTBF of the unit exceeds 250,000 hours.

SPECIFICATIONS

Input Voltage
24V, 36V, 48V, 125V, 250VDC
±15% are standard
Consult factory for other inputs

Input Protection
Thermal fuse
Inrush current limiting
Reverse polarity protection

Standards
Designed to meet
C22.2 No. 107.1 - 01,
UL 458 and EN60950

EMI
EN 55022 Class A
as a minimum

Output Voltage
115VAC/8.7A continuous at
60Hz or 400Hz, or
230VAC/4.35A continuous at
50Hz, with grounded neutral.
Isolated floating output optional.
Consult factory for other output
requirements

Output Wave Form
Sinusoidal

Total Harmonic Distortion
Less than 5% at full load

Efficiency
Input voltage dependent
Typically 80% at full load

Line Regulation
Better than 0.5%

Load Regulation
Maximum ±6% from no load
to full load. A ±2% load regulation
option is available.

Output Protection
Current limiting with short circuit
protection
Thermal shutdown with automatic
recovery in case of continuous
overload

Load Crest Factor
Maximum 3.0 at 90% load

Operating Temperature Range
0° C to +50° C
Extended temperature ranges
available

Temperature Drift
0.05% per °C over operating
temperature range

Cooling
Conduction

Humidity
5 - 95% non-condensing or
condensing

Environmental Protection
Fully encapsulated internal
modules

Dimensions
19" x 3" x 14" enclosed case

Connections
Input/output: compression-type
terminal block
(Phoenix SMKDS 5/3-9,6)

Weight
27.5 pounds (12.48 Kg)

Alarm Output
None

Warranty: Twelve months subject to application within good engineering practice
Enhancements to these general specifications can be accommodated upon request
Designed to meet common approval requirements. Specifications are subject to change

Designer and manufacturer of quality converters, inverters, UPS systems, complete rack mount systems
and DC-input fluorescent lamp inverters since 1982. Custom or standard.
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