

100VA Inverter with Sine Wave Output Rugged, Industrial Quality CSI 100-EH Series



- Rugged industrial quality
- Filtered input
- Full electronic protection
- Convection cooled
- Field-proven design topology
- 3U x 10HP x 160mm Eurocard (Plug-in) module

The CSI 100-EH Series rugged DC/AC Inverter in Eurocard (plug-in) format uses microprocessor controlled field proven topology to generate 100VA output power. It is a mature design with a track record in hundreds of applications. The DC/DC input stage boosts the input voltage to a higher DC voltage, which feeds the DC/AC inverter to generate the required AC output. The use of high frequency conversion ensures a compact construction and low weight. It features full electronic protection, high efficiency and low output noise. Cooling is by natural air convection. The use of components with established reliability results in a high MTBF. The CSI 100-EH is manufactured at our plant under strict quality control.

SPECIFICATIONS

Input Voltage

24V, 36V, 48V, 110V, 125Vdc
+/-15% are standard
Consult factory for other inputs

Input Protection

Inrush current limiting
Varistor
Reverse polarity protection
Internal safety fuse
Lower voltage than the specified minimum input will not damage the unit

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/0.86A /60Hz or 400Hz;
or 230Vac/0.43A /50Hz
Output neutral is connected to the chassis internally.
Isolated floating output optional
Consult factory for other output requirements

Output Wave Form

Sinusoidal

Total Harmonic Distortion

Less than 5% at full load

Line Regulation

± 0.5% max.

Load Regulation

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

Load Crest Factor

Maximum 3.0 at 90% load

Output Noise

High frequency ripple is better than 500mVrms (20MHz BW)

Output Overload Protection

Current limiting with short circuit protection.
Thermal shutdown with automatic recovery in case of insufficient cooling

Output Overvoltage Protection

140/280V by internal supply voltage limiting

Efficiency

Input voltage dependent
Typically 80% at full load

Operating Temperature Range

0° C to +50° C. Extended temperature ranges available

Temperature Drift

0.05% per °C over operating temperature range

Cooling

Convection (no fan)

Environmental Protection

Basic ruggedizing

Humidity

5 - 95% non-condensing

MTBF

Min. 140,000 hours @45°C
Demonstrated MTBF is significantly higher

Indicators

None

Control Input

None
Remote shutdown as option

Alarm Output

None
Output fail alarm (Form C) as option

Dimensions

Plug-in: 3U x 160mm x 10HP (2")

Weight

Approx. 0.8kg (1.8 lb)

Connections

Input/output: H15 DIN connector

RoHS Compliance

Fully compliant

Warranty

Two years subject to application within good engineering practice

Enhancements to these general specifications can be accommodated upon request. Specifications are subject to change

*Designer and manufacturer of quality ac-dc power supplies and battery chargers, converters, inverters, dc-output UPS systems, complete rack mount systems and DC-input fluorescent lamp inverters since 1982. Custom or standard.
Absopulse is a BABT-approved Facility.*



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