

## 100VA Rugged, Industrial Quality Plug-in DC/AC Inverter with Sine Wave Output Voltage CSI 100-EH Series



- Sinusoidal output voltage
- Rugged, field-proven design
- Filtered input
- Convection cooling
- Full electronic protection
- 3U x 10HP x 160mm Plug-in module

This rugged, plug-in DC/AC inverter uses field proven, microprocessor controlled high frequency PWM technology to generate 100VA output power with pure sine wave output voltage. It is a mature design with a track record in numerous 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 enables a compact construction, low weight and high efficiency. The unit has full electronic protection. The input and output are filtered for low noise. Cooling is by natural air convection. The use of components with established reliability results in high MTBF. The unit is manufactured at our plant under strict quality control.

### SPECIFICATIONS

<p><b>Input Voltage</b> 24V, 36V, 48V, 110V, 125Vdc ± 15% are standard Consult factory for other inputs</p> <p><b>Input Protection</b> Inrush current limiting Varistor Reverse polarity protection Internal safety fuse Lower voltage than the specified minimum input will not damage the unit</p> <p><b>Isolation</b> 1700Vdc input to chassis/output or corresponding to the voltage requirements Output neutral is connected to the chassis internally Floating output as option</p> <p><b>Standards</b> Designed to meet C22.2 No. 107.1 - 01, UL 458 and EN60950</p> <p><b>EMI</b> EN 55022 Class A as a minimum</p>	<p><b>Output Voltage</b> 115Vac/0.8Arms continuous at 60Hz or 400Hz; or 230Vac/0.4Arms continuous at 50Hz Isolated floating output optional Consult factory for other output requirements</p> <p><b>Output Wave Form</b> Sinusoidal</p> <p><b>Total Harmonic Distortion</b> Less than 5% at full load</p> <p><b>Line/Load Regulation</b> Better than ± 2% from no load to full load.</p> <p><b>Load Crest Factor</b> Maximum 3.0 at 90% load</p> <p><b>Output Noise</b> High frequency ripple is better than 500mVrms (20MHz BW)</p> <p><b>Output Overload Protection</b> Current limiting with short circuit protection</p> <p><b>Output Overvoltage Protection</b> Output voltage is limited by internal supply voltage</p>	<p><b>Efficiency</b> Input voltage dependent Typically 80% at full load</p> <p><b>Operating Temperature Range</b> 0° C to +50° C for full specification Extended temperature ranges available</p> <p><b>Temperature Drift</b> 0.05% per °C over operating temperature range</p> <p><b>Cooling</b> By convection</p> <p><b>Environmental Protection</b> Basic ruggedizing Full ruggedizing and conformal coating as option</p> <p><b>Shock/Vibration</b> IEC 61373 Cat 1 A&amp;B</p> <p><b>Humidity</b> 5 - 95% non-condensing</p> <p><b>MTBF</b> 130,000 hours at 45°C Demonstrated MTBF is significantly higher</p>	<p><b>Indicators</b> None</p> <p><b>Control Input</b> None Remote shutdown as option</p> <p><b>Alarm Output</b> None Output fail alarm (Form C) as option</p> <p><b>Dimensions</b> 3U x 160mm x 10HP (2")</p> <p><b>Weight</b> Approx. 0.8kg (1.8 lb)</p> <p><b>Connections</b> Input/output: H15 DIN connector</p> <p><b>RoHS Compliance</b> Fully compliant</p> <p><b>Warranty</b> Two years subject to application within good engineering practice</p>
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**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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