

## 200VA Inverter with Sine Wave Output Rugged, Industrial Quality CSI 200 Series



- Rugged, field-proven design
- Sinusoidal output voltage
- Filtered input
- Full electronic protection
- Conduction/convection cooling

This rugged DC/AC inverter uses field proven, microprocessor controlled high frequency PWM technology to generate 200VA 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 via baseplate to a heatsinking surface and by natural 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, 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> Compliant to input and output voltages according to the corresponding standards</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/1.7A continuous at 60Hz or 400Hz; or 230Vac/0.86 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> Maximum <math>\pm 2\%</math> 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 without derating. Extended temperature ranges available</p> <p><b>Temperature Drift</b> 0.05% per °C over operating temperature range</p> <p><b>Cooling</b> Conduction to customer heatsink or chassis and natural 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</p> <p><b>Alarm Output</b> Optional output fail alarm (Form C)</p> <p><b>Package/Dimensions (W x H x L)</b> F3: 132 x 62 x 300 mm (5.2" x 2.5" x 11.8") including terminal block and flanges</p> <p><b>Weight</b> 2 kg (4.4 lb)</p> <p><b>Connections</b> Barrier-type terminal block with 3/8" spacing Consult factory for other connectors.</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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