

300VA Inverter with Sine Wave Output Rugged, Industrial Quality CSI 300 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 300VA 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>Input Voltage 24V, 36V, 48V, 125Vdc +/-15% are standard Consult factory for other inputs</p> <p>Input Protection Inrush current limiting Varistor Reverse polarity protection Internal safety fuse Lower voltage than the specified minimum input will not damage the unit</p> <p>Isolation Compliant to input and output voltages according to the corresponding standards</p> <p>Standards Designed to meet C22.2 No. 107.1 - 01, UL 458 and EN60950</p> <p>EMI EN 55022 Class A as a minimum</p>	<p>Output Voltage 115Vac/2.6A continuous at 60Hz or 400Hz ; or 230Vac/1.3A continuous at 50Hz Isolated floating output. Consult factory for other output requirements</p> <p>Output Wave Form Sinusoidal</p> <p>Total Harmonic Distortion Less than 5% at full load</p> <p>Line/Load Regulation Maximum $\pm 2\%$ from no load to full load.</p> <p>Load Crest Factor Maximum 3.0 at 90% load</p> <p>Output Noise High frequency ripple is better than 500mVrms (20MHz BW)</p> <p>Output Overload Protection Current limiting with short circuit protection.</p> <p>Output Overvoltage Protection Output voltage is limited by internal supply voltage</p>	<p>Efficiency Input voltage dependent Typically 80% at full load</p> <p>Operating Temperature Range 0°C to +50°C for full specification without derating. Extended temperature ranges available</p> <p>Temperature Drift 0.05% per °C over operating temperature range</p> <p>Cooling Conduction to customer heatsink or chassis and natural convection</p> <p>Environmental Protection Basic ruggedizing Full ruggedizing and conformal coating as option</p> <p>Shock/Vibration IEC 61373 Cat 1 A&B</p> <p>Humidity 5 - 95% non-condensing</p> <p>MTBF 130,000 hours at 45°C Demonstrated MTBF is significantly higher</p>	<p>Indicators None</p> <p>Control Input None</p> <p>Alarm Output Optional output fail alarm (Form C)</p> <p>Package/Dimensions (W x H x L) FX: 153 x 67 x 357 mm (6" x 2.7" x 14.1") including terminal block and flanges</p> <p>Weight 2.2 kg (4.9 lb)</p> <p>Connections Barrier-type terminal block with 3/8" spacing Consult factory for other connectors.</p> <p>RoHS Compliance Fully compliant</p> <p>Warranty 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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