

500VA Sine Wave Output Inverter Rugged, Industrial Quality CSI 500 Series



- Sinusoidal output voltage
- 500VA output power
- Filtered input
- Cooling by internal fan
- Full electronic protection
- Field-proven design topology

The CSI 500 Series is a rugged, compact DC/AC Inverter which uses field proven topology to generate 500W 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. Suitable for a wide range of applications, the CSI 500 features full electronic protection and low output noise. Cooling is by built-in fan.. This chassis-mount design is optimized for low component count and high efficiency. The use of components with established reliability results in a high demonstrated MTBF. The CSI 500 is manufactured at our plant under strict quality control. Customized versions are also available. For railway applications, please see our RSI 500 Series.

SPECIFICATIONS

<p>Input Voltage 24V, 36V, 48V, 125V, 250VDC +/-15% are standard Consult factory for other inputs, and ranges</p> <p>Input Protection Inrush current limiting Varistors Reverse polarity protection Internal safety fuse Lower voltage than the specified minimum input will not damage the unit</p> <p>Isolation Input to chassis: min. 1000Vdc corresponding to the input voltage Output neutral is connected to the chassis, internally Floating output as option</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/4.34A/60Hz or 400Hz; or 230VAC/2.17A/50Hz Output neutral is connected to the chassis internally. Isolated floating output optional 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 Regulation ± 0.5% max.</p> <p>Load Regulation Maximum ± 6% from no load to full load. ± 2% load regulation option is available</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. Thermal shutdown with automatic recovery in case of insufficient cooling</p> <p>Output Overvoltage Protection 140/280V by internal supply voltage limiting</p> <p>Efficiency Typically 78% 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 Built-in fan</p> <p>Environmental Protection Basic ruggedizing</p> <p>Humidity 5 - 95% non-condensing</p>	<p>MTBF Min. 140,000 hours at 45°C</p> <p>Indicators None</p> <p>Control Input None Remote shutdown as option</p> <p>Alarm Output None Option: output fail alarm (Form C)</p> <p>Package/Dimensions (W x H x L) I2: 127 x 133.1 x 393.7 mm (5" x 5.2" x 15.5") including terminal block and flanges Mounting holes are clear</p> <p>Weight 4 Kg (9 lb)</p> <p>Connections Input: Compression-type terminal block Outputs: 115Vac: Standard AC receptacle 230Vac: IEC connector</p> <p>RoHS Compliance Fully compliant</p> <p>Warranty Two years subject to application within good engineering practice</p>
---	---	--	--

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.



ABOPULSE ELECTRONICS LTD
110 Walgreen Road
Ottawa, Ontario. K0A 1L0. CANADA
Tel: (613) 836-3511 Fax: (613) 836-7488
E-mail: absopulse@absopulse.com
www.absopulse.com