

1000VA Inverter with Sine Wave Output

Rugged, Industrial Quality

CSI 1K Series

- Sinusoidal output voltage
- Filtered input
- Cooling by internal fans
- Full electronic protection
- Field-proven design topology

Photo: 3U3



This rugged, modular, DC/AC inverter system uses a microprocessor controlled field proven design to generate 1000VA output power. It is a mature product 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 ensures a compact construction and low weight. It features full electronic protection, high efficiency and low output noise. Built-in fans provide sufficient airflow for operation without de-rating to the specified temperature. The use of components with established reliability results in a high MTBF. The unit is manufactured at our plant under strict quality control.

SPECIFICATIONS

Input Voltage 24V, 36V, 48V, 125V, 250Vdc +/-15% are standard Consult factory for other inputs	Output Voltage 115Vac @ 60Hz or 400Hz/8.7A rms continuous; or 230Vac @ 50Hz/ 4.35A rms continuous. Output neutral is connected to the chassis internally. Isolated floating output optional Consult factory for other output requirements	Output Overvoltage Protection 140Vac (for 115Vac output) or 280Vac (for 230Vac output) by internal supply voltage limiting	Indicators None
Input Protection Inrush current limiting Varistors Internal safety fuse Lower voltage than the specified minimum input will not damage the unit	Output Wave Form Sinusoidal	Efficiency Depends on input and output voltage combination. Typically 76% at full load	Control Input None Remote shutdown as option
Isolation 500Vdc input to chassis for input voltages up to 48Vdc 1700Vdc input to chassis for input voltage 125Vdc 2250Vdc input to chassis for input voltage 250Vdc 2250Vdc input to output Output neutral is connected to the chassis internally Floating output as option	Total Harmonic Distortion Less than 5% at full load	Operating Temperature Range 0°C to +50°C for full specification without derating. Extended temperature ranges available	Alarm Output None Option: output fail alarm (Form C)
Standards Designed to meet C22.2 No. 107.1 - 01, UL 458 and EN60950	Line/Load Regulation Maximum $\pm 6\%$ from no load to full load. $\pm 2\%$ load regulation option is available	Temperature Drift 0.05% per °C over operating temperature range	Package/Dimensions (W x H x D) 3U3: 187 x 132 x 407 mm (7.4 x 5.2 x 16") including connectors Mounting holes are clear 19" rack-mount version as option
EMI EN 55022 Class A as a minimum	Load Crest Factor Maximum 2.5 at 90% load	Cooling Built-in fans drawing air into the unit	Weight 6 kg (14 lb) approx
	Output Noise High frequency ripple is less than 500mVrms (20MHz BW)	Environmental Protection Basic ruggedizing Full ruggedizing and conformal coating as option	Connections Input: Compression-type terminal-block For 24Vdc input – copper studs with nuts Outputs: 115Vac – standard AC receptacle; 230Vac – IEC receptacle
	Output Overload Protection Current limiting with short circuit protection. Thermal shutdown with automatic recovery in case of insufficient cooling	Humidity 5 - 95% non-condensing	RoHS Compliance Fully compliant
		MTBF Min. 95,000 hours at 45°C Demonstrated MTBF is significantly higher Fans excluded	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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