1500VA Rugged, Industrial Quality Inverter with Sine Wave Output
CSI 1K5 Series

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

3U3:
3U(5.2") x7.4"x 16"
chassis-mount only

3U7:
3U(5.2") x 19"x 16'
rack-mount.

These photos show two of a range of package options available.
Mechanical size depends on input/output configuration.
Chassis-mount and 19" rack-mount versions available on most designs

This rugged, modular, DC/AC inverter system uses a microprocessor controlled field proven design to generate 1500VA 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. The configuration of modules for the system depends on the input/output required. Each interconnection between modules is made with a single pair of wires. Full electronic protection eliminates the possibility of failure due to abnormal operating conditions, including application errors. Low component count and the use of components with established reliability results in high MTBF. Cooling is by built-in fans, which draw air into the unit. The system is manufactured at our plant under strict quality control. Customized versions are also available.

SPECIFICATIONS

Input Voltage
24V, 36V, 48V, 125V, 250Vdc
+/-15% are standard
Consult factory for other inputs

Input Protection
Inrush current limiting
Varistors
Internal safety fuse
Lower voltage than the specified minimum input will not damage the unit

Isolation
According to the input voltage required by the standard
Output neutral is connected to the chassis internally
Floating output as option

Standards
Designed to meet
C22.2 No. 107.1 - 01,
UL 458 and EN60950

EMI
EN 55022 Class A
as a minimum

Output Voltage
115Vac @ 60Hz or
400Hz/13A rms continuous;
or 230Vac @ 50Hz/6.5A rms continuous.
Output neutral is connected to the chassis internally.
Isolated floating output optional
Consult factory for other output requirements

Output Wave Form
Sinusoidal

Total Harmonic Distortion
Less than 5% at full load

Line/Load Regulation
Maximum ± 6% from no load to full load.
± 2% load regulation option is available

Load Crest Factor
Maximum 2.5 at 90% load

Output Noise
High frequency ripple is less than 500mVrms (20MHz BW)

Output Overload Protection
Current limiting with short circuit protection.
Thermal shutdown with automatic recovery in case of insufficient cooling

Output Overvoltage Protection
140Vac (for 115Vac output) or
280Vac (for 230Vac output) by internal supply voltage limiting

Efficiency
Depends on input and output voltage combination.
Typically 76% at full load

Operating Temperature Range
0° C to +50° C for full specification without derating.
Extended temperature ranges available

Temperature Drift
0.05% per ° C over operating temperature range

Cooling
Built-in fans drawing air into the unit

Environmental Protection
Basic ruggedizing
Full ruggedizing and conformal coating as option

Humidity
5 - 95% non-condensing

MTBF
Min. 95,000 hours at 45ºC
Demonstrated MTBF is significantly higher
Fans excluded

Indicators
None
Available as an option

Control Input
None
Available as an option

Alarm Output
None
Available as an option

Package/Dimensions (W x H x D)
Package size varies from
3U x 7.4" x 16" to a 3U x 19" x 16" modular configuration, depending on the input/output combination required.
Chassis-mount and 19" rack-mount versions available at the same price

Weight
From 6kg (14lb) to 8 kg (18 lb) approx., depending on the modular configuration

Connections
Input: Terminal-block or threaded studs
Outputs:
Standard AC receptacle, IEC receptacle or terminal block

RoHS Compliance
Fully compliant

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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