

2KVA, Rugged, Portable Inverter with Sine Wave Output for Field Applications

CSI 2KT-2A



- Rugged, portable construction
- Sinusoidal output voltage
- Filtered input/output
- Cooling by internal fans
- Full electronic protection
- Field-proven design topology

This rugged, modular DC/AC inverter uses field proven microprocessor controlled high frequency PWM technology to generate 2KVA output power with pure sine wave output voltage. This system is built with internal power modules. 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 built-in fans provide sufficient airflow for operation without de-rating to the specified temperature. The unit is conformal coated, heavily ruggedized and housed in a splash-proof Kinetics #822 case with a sturdy handle for easy carrying. The high frequency conversion enables a compact construction, low weight and high efficiency. The system has full electronic protection. The input and output are filtered for low noise. The use of components with established reliability results in high MTBF. The unit is manufactured at our plant under strict quality control.

SPECIFICATIONS

Input Voltage 24Vdc nominal 21 - 30Vdc range Input current 114 Arms max. 48V, 125V and other inputs are also available.	Output Voltage 110Vac/18Arms continuous, 60Hz Output neutral is internally connected to chassis 230Vac output is also available	Efficiency 80% at full load	Indicators None
Input Protection Inrush current limiting Varistor Internal safety fuse Lower voltage than the specified minimum input will not damage the unit	Output Wave Form Sinusoidal	Operating Temperature Range 0° C to +50° C for full specification Extended temperature ranges available	Control Input None
Isolation Input to chassis: 1500Vdc Output neutral is connected to the chassis internally	Total Harmonic Distortion Less than 5% at full load	Temperature Drift 0.05% per °C over operating temperature range	Control Input None
Standards Designed to meet C22.2 No. 107.1 – 01, UL 458 and EN 60950	Line Regulation Maximum 0.5%	Cooling Built-in fans draw air into the unit	Alarm Output None
EMI EN55022 Class A with margins	Load Regulation Maximum ± 6% from no load to full load	Environmental Protection Ruggedizing Conformal coating	Package / Dimensions (W x H x L) Inverter system housed in portable, splash proof Kinetics #822 case measuring: 246 x 512 x 605 mm (9.7" x 20.1" x 23.8") Note: The cover must be kept open during operation.
	Load Crest Factor Maximum 2.5 at 90% load	Shock/Vibration IEC 61373 Cat 1 A&B	Weight 15 kg (33 lbs) approx.
	Output Noise High frequency ripple is less than 500mVrms (20MHz BW)	Humidity 5 – 95% non-condensing	Connections Input: Anderson connector SB175 Output: Two Nema 15 sockets
	Output Overload Protection Current limiting with short circuit protection. At 2400VA, unit enters cycling (hiccup) mode. Thermal shutdown with automatic recovery in case of insufficient cooling.	MTBF 110, 000 hours at 45° C (fans excluded)	RoHS Compliance Not required, but accepted
	Output Overvoltage Protection 140Vac by internal supply voltage limiting		Warranty Two years subject to application within good engineering practice Contamination related failures not covered.

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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