

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

CSI 2K-2A-PEL



- 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 up to 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 62368-1	Line Regulation Maximum 0.5%	Cooling Built-in fans draw air into the unit	Alarm Output None
EMI EN55032 Class A with margins	Load Regulation ±6% from no load to full load	Environmental Protection Ruggedizing Conformal coating	Package / Dimensions (L x W x D) Inverter system housed in portable, splash proof Kinetics #822 case measuring: 60.45 x 51.05 x 24.64 cm 23.80" x 20.10" x 9.70" 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 Compliant
	Output Overvoltage Protection 140Vac by internal supply voltage limiting		Warranty Two years subject to application within good engineering practice Contamination related failures not covered.

ABSOPULSE power supplies are designed and built to customer requirements. The specifications on this data sheet are generic guidelines only and are subject to change. OEM of industrial and railway quality DC-DC converters, AC-DC power supplies and battery chargers, DC-AC sine-wave inverters, phase and frequency converters, DC-output UPS systems and complete power systems in 19" and 23" racks since 1982. Custom or standard. ABSOPULSE is a BABT-approved Facility.



ABSOPULSE ELECTRONICS LTD

110 Walgreen Road, Ottawa, Ontario, K0A 1L0, CANADA

Tel: +1-613-836-3511 | Fax: +1-613-836-7488 E-mail:

<https://absopulse.com/contact> | <https://www.absopulse.com>