

1000VA, 3-Phase DC-AC Inverter with Sine Wave Output Voltage, Industrial Quality CTP 1K-3U3SF Series



- 3-Phase sinusoidal output voltage
- Filtered input/output
- Cooling by high quality built-in fans
- Compact construction
- Full electronic protection
- Rugged, field-proven design

This rugged industrial quality DC-AC inverter uses field-proven, microprocessor controlled high frequency PWM technology to generate the required output power with 3-phase sine wave output voltage. The use of high frequency conversion enables compact construction, low weight, and high efficiency. The standard 3-phase outputs are 208Vrms, 380Vrms or 400Vrms (L-L) at the required frequency. Phase-to-neutral voltages can also be used: 115Vrms, 220Vrms or 240Vrms. The input and output are filtered for low noise. Cooling is by high quality built-in fans with which draw air into the unit, and by conduction via the baseplate. All heat generating components are installed on aluminum heatsink blocks which are thermally connected to the base plate. This also ensures exceptional mechanical ruggedness. Conformal coating provides protection against humidity and airborne contaminants. Full electronic protection, generous design headroom and the exclusive use of components with established reliability also contribute to high MTBF. The unit is manufactured at our plant under strict quality control.

SPECIFICATIONS

<p>Input Voltage 24V, 48V, 110V or 125Vdc Other inputs available on request</p>	<p>Output Voltage 208Vrms (L-L)/3-phase continuous at 60 or 400Hz or 380Vrms or 400Vrms (L-L)/ 3-phase continuous at 50 or 60Hz (Phase-to-neutral voltages can also be used: 115Vrms, 220Vrms or 240Vrms) Consult factory for other voltages, frequencies and options</p>	<p>Output Overvoltage Protection Output voltage is limited by internal supply voltage</p>	<p>Indicators None</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>Output Wave Form Sinusoidal</p>	<p>Efficiency Depends on input and output voltage combination. Typically 80% at full load</p>	<p>Control Input None Remote shutdown or enable available as an option</p>
<p>Isolation Compliant to input and output voltages according to the corresponding standards</p>	<p>Total Harmonic Distortion Less than 5% at full load</p>	<p>Operating Temperature Range 0° C to +50° C for full specification without de-rating Extended temperature ranges available</p>	<p>Alarm Output None Output fail alarm (Form C) as option</p>
<p>Standards Designed to meet C22.2 No. 107.1 - 01, UL 458 and EN62368-1</p>	<p>Line/Load Regulation ±6% from no load to full load.</p>	<p>Temperature Drift 0.05% per °C over operating temperature range</p>	<p>Package/Dimensions (H x W x D) 3U3SF: 132 x 188 x 318 mm (5.2" x 7.4" x 12.5") Dimensions exclude terminals and L-brackets Mounting holes are clear</p>
<p>EMI EN55022 Class A with margins</p>	<p>Load Crest Factor 2 at 90% load</p>	<p>Cooling High quality built-in fans draw air into the unit</p>	<p>Weight 6.5 kg (14 lb)</p>
	<p>Output Noise High frequency ripple is less than 500mVrms (20MHz BW)</p>	<p>Environmental Protection Basic ruggedizing Conformal coating</p>	<p>Connections Input: terminal block Output: terminal block M5 stud for chassis GND</p>
	<p>Output Overload Protection Current limiting with short circuit protection Thermal shutdown with automatic recovery in case of insufficient cooling</p>	<p>Shock/Vibration IEC 61373 Cat 1 A&B</p>	<p>RoHS Compliance Compliant</p>
		<p>Humidity 5 - 95% non-condensing</p>	<p>Warranty Two years subject to application within good engineering practice.</p>
		<p>MTBF Min. 95,000 hours at 45°C Demonstrated MTBF is significantly higher Fans excluded</p>	

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.



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