

## 3000VA, 3-Phase Rugged, Industrial Quality Sine Wave Output Inverter CTP 3K Series

- 3-Phase sinewave output voltage
- Filtered input
- Cooling by internal fan
- Full electronic protection
- Field-proven design topology

**3U7  
rack-mount  
chassis**



**6Ux19"  
rack-mount  
chassis  
(4 x 3U3)**



This rugged, modular 3-Phase DC-AC inverter system that uses a microprocessor controlled field-proven technology to deliver the required output power with pure sine wave output voltage. It is a mature design with a track record in numerous applications. The standard 3-phase outputs are 208Vrms, 380Vrms or 400Vrms (L-L). Phase-to-neutral voltages can also be used: 115Vrms, 220Vrms or 240Vrms. All output neutrals are internally connected to chassis (GND) in "Y" configuration. The number of modules depends on the input/output combination. (The above units are typical examples of mechanical configurations). Input modules convert the input voltage to an internal DC voltage, which feeds the DC-AC output module. The high frequency conversion enables a compact construction, low weight and high efficiency. The unit has full electronic protection. The input and output are filtered for low noise. The use of components with established reliability results in high MTBF. Cooling is by built-in fans, which draw air into the unit. The inverter is manufactured at our plant under strict quality control.

### SPECIFICATIONS

<p><b>Input Voltage</b> 24V, 36V, 48V, 125V or 250Vdc ±15% Consult factory for other inputs</p> <p><b>Input Protection</b> Inrush current limiting Varistors Reverse polarity protection Internal safety fuse Lower voltage than the specified minimum input will not damage the unit</p> <p><b>Isolation</b> Compliant to input and output voltages according to the corresponding standards</p> <p><b>Standards</b> Designed to meet C22.2 No. 107.1 - 01, UL 458 and EN60950-1</p> <p><b>EMI</b> EN 55032 Class A with margins Consult factory for higher level of filtering</p>	<p><b>Output Voltage</b> 208Vrms (L-L)/3-phase continuous at 60 or 400Hz or 380Vrms or 400Vrms (L-L)/3-phase continuous at 50 or 60Hz All neutrals are internally connected to chassis (GND) in "Y" configuration (Phase-to-neutral voltages can also be used: 115Vrms, 220Vrms or 240Vrms) Consult factory for other voltages, frequencies and options</p> <p><b>Output Wave Form</b> Sinusoidal</p> <p><b>Total Harmonic Distortion</b> Less than 5% at full load</p> <p><b>Line/Load Regulation</b> Maximum ± 6% from no load to full load.</p> <p><b>Load Crest Factor</b> 2 at 90% load</p> <p><b>Output Noise</b> High frequency ripple is less than 500mVrms (20MHz BW)</p> <p><b>Output Overload Protection</b> Current limiting with short circuit protection Thermal shutdown with automatic recovery in case of continuous overload or insufficient airflow</p> <p><b>Output Overvoltage Protection</b> Output voltage is limited by internal supply voltage</p>	<p><b>Efficiency</b> Depends on input and output voltage combination. Typically 78% at full load</p> <p><b>Operating Temperature Range</b> 0° C to +50° C for full specification without derating Extended temperature ranges available</p> <p><b>Temperature Drift</b> 0.05% per °C over operating temperature range</p> <p><b>Cooling</b> Forced air by high quality built-in fans Fans draw air into the unit</p> <p><b>Environmental Protection</b> Ruggedizing Conformal coating</p> <p><b>Shock/Vibration</b> IEC 61373 Cat 1 A&amp;B</p> <p><b>Humidity</b> 5 - 95% non-condensing</p> <p><b>MTBF</b> Min. 95,000 hours at 45°C Demonstrated MTBF is significantly higher Fans excluded</p>	<p><b>Indicators</b> None</p> <p><b>Control Input</b> None Remote shutdown as option</p> <p><b>Alarm Output</b> None Option: output fail alarm (Form C)</p> <p><b>Package/Dimensions (H x W x D)</b> 19" rack-mount or chassis mount assembly available Size varies from 3U x 19" to 6U x 19" depending on input/output combination</p> <p><b>Weight</b> 6U x 19" chassis: 28 kg, 62 lb 3U7 x 19" chassis: 14 kg, 31 lb</p> <p><b>Connections</b> Input: Terminal block or threaded studs depending on input voltage Output: Terminal block Interconnections: Terminal blocks</p> <p><b>RoHS Compliance</b> Compliant</p> <p><b>Warranty</b> Two years subject to application within good engineering practice Contamination related failures and shipping cost excluded</p>
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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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