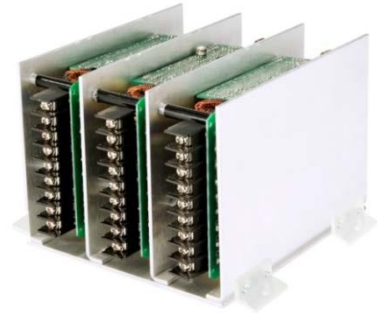


## 300VA, Rugged, Compact 3-Phase Industrial Quality DC/AC Sine Wave Inverter CTP 300-5M Series



- 3-Phase sinusoidal output voltage
- Filtered input/output
- Conduction/convection cooled
- Compact construction
- Full electronic protection
- Rugged, field-proven design
- Cost-effective pricing

This rugged DC/AC inverter uses field proven, microprocessor controlled high frequency PWM technology to generate 300VA output power with 3-phase sine wave output voltage. The unit is built with three CSI 100 internal modules, and a 3-phase control module. The use of high frequency conversion enables a compact construction, low weight and high efficiency. The input and output are filtered for low noise. Cooling is via baseplate to a heat-sinking surface and by natural convection. 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

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| <p><b>Input Voltage</b><br/>24V, 48V, 110V, 125Vdc<br/>are standard<br/>Consult factory for other inputs</p> <p><b>Input Protection</b><br/>Inrush current limiting<br/>Varistors<br/>Reverse polarity protection<br/>Internal safety fuses<br/>Lower voltage than the specified<br/>minimum input will not damage<br/>the unit</p> <p><b>Isolation</b><br/>1000Vdc input to chassis<br/>1500Vdc input to output<br/>1000Vdc output to chassis<br/>Floating output</p> <p><b>Standards</b><br/>Designed to meet<br/>C22.2 No. 107.1 - 01,<br/>UL 458 and EN 60950-1</p> <p><b>EMI</b><br/>EN 55022 Class A with margins</p> | <p><b>Output Voltage</b><br/>208Vrms (L-L)/3-phase continuous<br/>at 60 or 400Hz or<br/>380Vrms or 400Vrms (L-L)/ 3-phase<br/>continuous at 50 or 60Hz<br/>(Phase-to-neutral voltages can also<br/>be used: 115Vrms, 220Vrms or<br/>240Vrms)<br/>Consult factory for other voltages,<br/>frequencies and options</p> <p><b>Output Wave Form</b><br/>Sinusoidal</p> <p><b>Total Harmonic Distortion</b><br/>Less than 5% at full load</p> <p><b>Line/Load Regulation</b><br/>Maximum <math>\pm</math> 5% from 10% load<br/>to full load</p> <p><b>Load Crest Factor</b><br/>Maximum 2 at 90% load</p> <p><b>Output Noise</b><br/>High frequency ripple is better<br/>than 500mVrms (20MHz BW)</p> <p><b>Output Overload Protection</b><br/>Current limiting with short circuit<br/>protection.</p> <p><b>Output Overvoltage Protection</b><br/>140V by internal supply voltage<br/>limiting</p> | <p><b>Efficiency</b><br/>Typically 80% at full load</p> <p><b>Operating Temperature Range</b><br/>0° C to +50° C for full specification<br/>Extended temperature ranges<br/>available</p> <p><b>Temperature Drift</b><br/>0.05% per °C over operating<br/>temperature range</p> <p><b>Cooling</b><br/>By natural air convection</p> <p><b>Environmental Protection</b><br/>Basic ruggedizing<br/>Full ruggedizing and conformal<br/>coating available as option</p> <p><b>Shock/Vibration</b><br/>IEC 61373 Cat 1 A&amp;B</p> <p><b>Humidity</b><br/>5 - 95% non-condensing</p> <p><b>MTBF</b><br/>Min. 120,000 hours at 45°C<br/>Demonstrated MTBF is<br/>significantly higher</p> | <p><b>Indicators</b><br/>None</p> <p><b>Control Input</b><br/>None<br/>Remote shutdown or enable<br/>as an option</p> <p><b>Alarm Output</b><br/>None</p> <p><b>Package/Dimensions (H x W x D)</b><br/>U4606: 112 x 151 x 177 mm<br/>(4.4" x 6.0" x 7.0") including<br/>terminal blocks, excluding<br/>mounting brackets</p> <p><b>Weight</b><br/>2.2 kg (4.8 lb)</p> <p><b>Connections</b><br/>Barrier type terminal blocks with<br/>3/8" spacing on the edge of the 3<br/>PCBs.</p> <p><b>RoHS Compliance</b><br/>Fully compliant</p> <p><b>Warranty</b><br/>Two years subject to application<br/>within good engineering practice.</p> |
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Please note that the above specifications set only generic guidelines for the design. Customizing and enhancements are possible. Please contact us with your specific requirements.

*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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