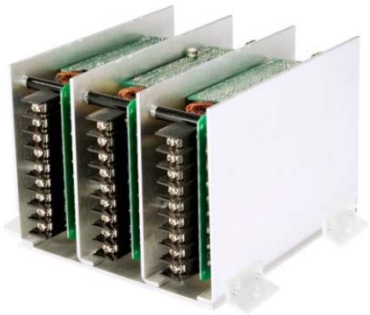
300VA, Rugged, Compact 3-Phase Industrial Quality DC/AC Sine Wave Inverter
CTP 300-5M-U6406 Series



- 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

Input Voltage
24V, 48V, 110V, 125Vdc
are standard
Consult factory for other inputs

Input Protection
Inrush current limiting
Varistors
Reverse polarity protection
Internal safety fuses
Lower voltage than the specified minimum input will not damage the unit

Isolation
1000Vdc input to chassis
1500Vdc input to output
1000Vdc output to chassis
Floating output

Standards
Designed to meet
C22.2 No. 107.1 - 01,
UL 458 and EN 60950-1

EMI
EN 55022 Class A with margins

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

Output Wave Form
Sinusoidal

Total Harmonic Distortion
Less than 5% at full load

Line/Load Regulation
Maximum ± 5% from 10% load to full load

Load Crest Factor
Maximum 2 at 90% load

Output Noise
High frequency ripple is better than 500mVrms (20MHz BW)

Output Overload Protection
Current limiting with short circuit protection.

Output Overvoltage Protection
140V by internal supply voltage limiting

Efficiency
Typically 80% at full load

Operating Temperature Range
0°C to +50 $^{\circ}$C for full specification
Extended temperature ranges available

Temperature Drift
0.05% per $^{\circ}$C over operating temperature range

Cooling
By natural air convection

Environmental Protection
Basic ruggedizing
Full ruggedizing and conformal coating available as option

Shock/Vibration
IEC 61373 Cat 1 A&B

Humidity
5 - 95% non-condensing

MTBF
Min. 120,000 hours at 45ºC
Demonstrated MTBF is significantly higher

Indicators
None

Control Input
None
Remote shutdown or enable as an option

Alarm Output
None

Package/Dimensions (H x W x D)
U6406: 112 x 151 x 177 mm (4.4" x 6.0" x 7.0") including terminal blocks, excluding mounting brackets

Weight
2.2 kg (4.8 lb)

Connections
Barrier type terminal blocks with 3/8” spacing on the edge of the 3 PCBs.

RoHS Compliance
Fully compliant

Warranty
Two years subject to application within good engineering practice.

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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