

## 300VA Inverter with Sine Wave Output Rugged, Industrial Quality CSI 300 Series

- Rugged, field-proven design
- Sinusoidal output voltage
- Filtered input
- Full electronic protection
- Conduction/convection cooling



This rugged DC/AC inverter uses field proven, microprocessor controlled high frequency PWM technology to generate 300VA output power with pure sine wave output voltage. It is a mature design with a track record in numerous applications. 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 use of 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. Cooling is via baseplate to a heatsinking surface and by natural convection. 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

24V, 36V, 48V, 125Vdc  
+/-15% are standard  
Consult factory for other inputs

#### Input Protection

Inrush current limiting  
Varistor  
Reverse polarity protection  
Internal safety fuse  
Lower voltage than the specified minimum input will not damage the unit

#### Isolation

Compliant to input and output voltages according to the corresponding standards

#### Standards

Designed to meet  
C22.2 No. 107.1 - 01,  
UL 458 and EN60950

#### EMI

EN 55022 Class A  
as a minimum

#### Output Voltage

115Vac/2.6A continuous  
at 60Hz or 400Hz ; or  
230Vac/1.3A continuous  
at 50Hz  
Isolated floating output.  
Consult factory for other output requirements

#### Output Wave Form

Sinusoidal

#### Total Harmonic Distortion

Less than 5% at full load

#### Line/Load Regulation

Maximum  $\pm 2\%$  from no load  
to full load.

#### Load Crest Factor

Maximum 3.0 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

Output voltage is limited by  
internal supply voltage

#### Efficiency

Input voltage dependent  
Typically 80% at full load

#### Operating Temperature Range

0°C to +50°C for full specification  
without derating.  
Extended temperature ranges  
available

#### Temperature Drift

0.05% per °C over operating  
temperature range

#### Cooling

Conduction to customer heatsink  
or chassis and natural convection

#### Environmental Protection

Basic ruggedizing  
Full ruggedizing and conformal  
coating as option

#### Shock/Vibration

IEC 61373 Cat 1 A&B

#### Humidity

5 - 95% non-condensing

#### MTBF

130,000 hours at 45°C  
Demonstrated MTBF is  
significantly higher

#### Indicators

None

#### Control Input

None

#### Alarm Output

Optional output fail alarm (Form C)

#### Package/Dimensions (W x H x L)

FX: 153 x 67 x 357 mm  
(6" x 2.7" x 14.1") including  
terminal block and flanges

#### Weight

2.2 kg (4.9 lb)

#### Connections

Barrier-type terminal block with  
3/8" spacing  
Consult factory for other connectors.

#### RoHS Compliance

Fully compliant

#### Warranty

Two years subject to application  
within good engineering practice

Enhancements to these general specifications can be accommodated upon request. Specifications are subject to change

*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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