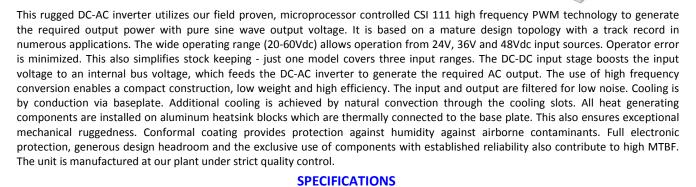
100VA Rugged, Industrial Quality DC/AC Sine Wave Inverter Accepts Input Voltages 24V, 36V, 48Vdc CSI 100-3W-F1 Series

- Sinusoidal output voltage
- Wide input range covering 24V, 36V and 48Vdc
- Rugged, field-proven design
- Filtered input and output
- Conduction/convection cooling
- Full electronic protection



Input Voltage

24V, 36V and 48Vdc nominal 20-60Vdc operating range 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 Floating output

Standards

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

EMI

 ${\sf EN55032\ Class\ A\ with\ margins}$

Output Voltage

115Vac/0.8Arms/60Hz or 400Hz; 230Vac/0.4Arms/50Hz 100VA continuous 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

±3% from no load to full load

Load Crest Factor

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

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 Extended temperature ranges available

Temperature Drift

0.05% per °C over operating temperature range

Cooling

Conduction and natural convection The unit must be installed on heatsinking surface such as chassis or cabinet wall for full power

Environmental Protection

Basic ruggedizing Conformal coating

Shock/Vibration

IEC 61373 Cat 1 A&B

Humidity

5 - 95% non-condensing

MTBF

120,000 hours at 45°C Demonstrated MTBF is significantly higher

Indicators

Green output ON LED visible through cooling slots

Control Input

None

Alarm Output

None

Optional output fail alarm (Form C)

Package/Dimensions (W x H x D)

F1: 113 x 51 x 198 mm 4.45" x 2" x 7.8" Includes flanges, excludes terminals Mounting holes are clear

Weight

Approx. 0.8kg (1.8 lb)

Connections

9-pole barrier type terminal block, 3/8" spacing

RoHS Compliance

Compliant

Warranty

Two years subject to application within good engineering practice.

Terminal Block Pin-out

AC OUTPUT						DC INPUT		
NOT USED	٦2	ე ე	NOT USED	NOT USED	NOT USED	GND	+	-
1	2	3	4	5	6	7	8	9

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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