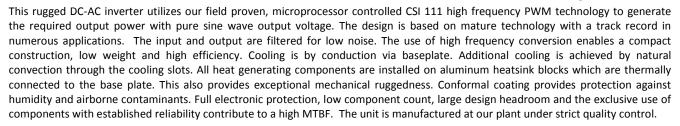
50VA Rugged, Industrial Quality DC-AC Inverter with Sine Wave Output CSI 50-F1 Series

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



SPECIFICATIONS

Input Voltage

12V, 24V, 36V, 48V or 125Vdc ±15% are standard Min. startup at 12V: 10.5-16V Other inputs are available on request.

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

According to input voltage
Min. 700Vdc input to chassis
Min. 1000Vdc input to output
700Vdc output to chassis
Floating output

Standards

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

EMI

EN55032 Class A with margins

Output Voltage

110Vac/0.45Arms/60Hz or 400Hz; 230Vac/0.21Arms/50Hz 50VA continuous Output is floating, either terminal can be grounded Other outputs are available on request.

Output Wave Form

Sinusoidal

Total Harmonic Distortion

Less than 6% at full load

Line/Load Regulation

±3% from no load to full load

Load Crest Factor

2 at 90% <u>l</u>oad

Output Noise

High frequency ripple is better than 200mVrms (20MHz BW)

Output Overload Protection

Current limiting with short circuit protection

Output Overvoltage Protection

30V by internal supply voltage limiting

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

150,000 hours at 45°C Demonstrated MTBF is significantly higher

Indicators

None

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

Input/output: 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	۲2	ე ∑	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.



ABSOPULSE ELECTRONICS LTD

110 Walgreen Road, Ottawa. Ontario. KOA 1LO. CANADA Tel: +1-613-836-3511 | Fax: +1-613-836-7488 https://absopulse.com/contact | https://www.absopulse.com/