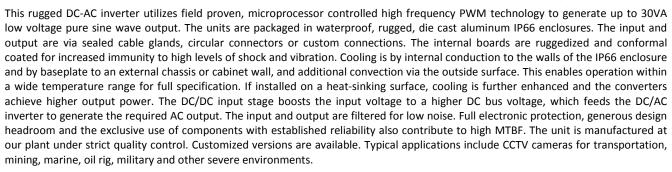
30VA, IP66-Rated, Rugged, Industrial Quality DC-AC Sine Wave Inverter CSI 30-D1 Series (IP66)

- Sinusoidal output voltage
- Packaged in a watertight IP66 enclosure
- Internal module ruggedized and conformal coated
- Rugged, field-proven design
- Filtered input/output
- 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

EN 55032 Class A with margins

Terminal Block Pin-Out (Internal) (The terminal block is accessible via cable glands)

Output Voltage

115Vac/0.26Arms continuous at 60Hz or 400Hz; or 230Vac/0.13Arms continuous at 50Hz

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% load

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

-25°C to 55°C for full specification Extended temperature ranges available on request

Temperature Drift

0.03% per $\,^{\circ}$ C over operating temperature range

Cooling

Conduction to customer heat-sink or chassis and by additional natural convection via the surface of the IP66 enclosure

Environmental Protection

IP66 enclosure Internal module: Ruggedized and conformal coated Potting of the internal module is also available

Shock/Vibration

IEC 61373 Cat 1 A&B

Humidity

5-100% condensing

МТВЕ

140,000 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)

Overall dimensions including mounting flanges/baseplate: D1: 120 x 84 x 267 mm 4.7" x 3.3" x 10.5"

Weight

Approx. 2.4 kg; 5.3 lb

Connections

Internal barrier-type terminal block accessible via sealed cable glands. Optional connectors instead of cable glands

RoHS Compliance

Compliant

Warranty

Two years subject to application within good engineering practice.

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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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