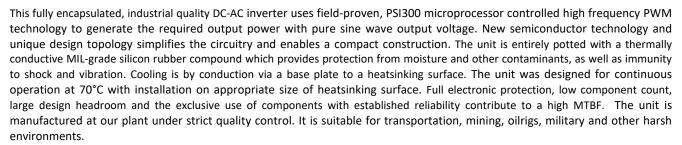
300VA Compact, Encapsulated, Industrial Quality DC-AC Sine Wave Inverter PSI 300-P600 Series

- Sinusoidal output voltage
- Full encapsulation
- Conduction cooling
- Compact construction
- Full electronic protection
- Wide temperature range
- Rugged, field-proven design



SPECIFICATIONS

Input Voltage

24V, 48V, 110V, 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

1500Vdc input to chassis 3000Vdc input to output 2250Vdc output to chassis Floating output

Standards

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

ЕМІ

EN 55032 Class A with margins

Output Voltage

115Vac/2.6A continuous, 60Hz or 400Hz; or 230Vac/1.3A continuous 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

 \pm 2% 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

Thermal shutdown with automatic

reset in case of insufficient cooling

Output Overvoltage Protection

Output voltage is limited by internal DC bus voltage

Efficiency

Input voltage dependent Typically 80% at full load

Operating Temperature Range

-40 to +70°C cold-plate temperature for full specification

Temperature Drift

0.03% per °C over operating temperature range

Cooling

Conduction cooling via base plate to customer chassis or heat-sink

Environmental Protection

Full encapsulation with thermally conductive silicon potting compound with UL94V-0 flammability rating. Meets environmental criteria as requested in MIL-810 C, D

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

Remote shutdown or enable as an option

Alarm Output

None

Output fail alarm (Form C) as option

Package/Dimensions (W x H x D)

P600: 155 x 72 x 273.3 mm (6.1" x 2.8" x 10.8") including terminal block and flanges Mounting holes are clear

Weight

3.4 kg (7.5 lb)

Connections

12-pole barrier type terminal block with 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	L1	L2	NOT USED	ďΨ	NOT USED	NOT USED	NOT USED	ı	-	+	+
1	2	~	4	- 5	6	7	۰	٥	10	11	12

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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