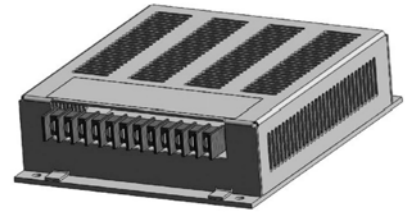


200W, Dual Output, Rugged, AC/DC Industrial Power Supply with Universal Input MIW 202-FT Series

- Rugged industrial quality
- Two regulated and adjustable outputs
- Conduction/convection cooled
- Full electronic protection
- Wide selection of output combinations



This rugged, dual output, industrial quality AC/DC power supply uses field-proven technology to generate 200W output power. It is a mature design with a track record in numerous applications. It has two completely independent regulated converter stages to provide 100W on each output. The outputs are floating and can be connected in series to generate higher output voltage or in parallel to increase the output current. Adjustments for both outputs are accessible. The design is based on the field-proven MIW 100 series topology. The unit has full electronic protection. The use of high quality components and rigorous quality control results in high MTBF. The MIW 202 is manufactured at our plant under strict quality control. Customized versions are also available.

SPECIFICATIONS

Input Voltage

95V to 264Vac
47 - 420Hz
DC-input also available.
Please consult factory.

Input Protection

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

Isolation

2250VDC input to chassis
4300VDC input to output
8mm spacing
500VDC output to chassis

Standards

Designed to meet EN 60950 and corresponding UL and CSA standards

EMI

EN55022 conducted and radiated
Class A with margins

Switching Frequency

47 kHz +/-2kHz

Hold Up Time

Minimum 5ms at nominal input for 5% Drop of the output voltage

Output Voltage/Current

V1: 5VDC $\pm 0.05V/11A$
V2: 12VDC $\pm 0.05V/9A$
Both outputs are fully regulated
The outputs are floating, either terminal can be grounded
Other output combinations are available

Redundancy Diode

None on standard version.
Available as option.

Line/Load Regulation

+/- 1% combined from zero load to full load

Dynamic Response

Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time

Output Ripple / Noise

Less than 1% of output voltage peak to peak or 0.2% RMS of the output voltage (20MHz BW)

Output Overload Protection

Rectangular current limiting with short-circuit protection on both outputs (hiccup mode)
Thermal shutdown with automatic recovery in case of insufficient cooling

Output Overvoltage Protection

Second regulator loop on both outputs

Efficiency

Min. 80% at full load

Operating Temperature Range

0 to 50°C for full specification installed on heat-sinking surface with good air flow
Extended temperature ranges available

Temperature Drift

0.03% per °C over operating temperature range

Cooling

Conduction via base plate to customer heatsink or chassis and natural convection

Environmental Protection

Basic ruggedizing
Full ruggedizing and conformal coating available as an option

Shock/Vibration

IEC 61373 Cat 1 A&B

Humidity

5 - 95% non-condensing

MTBF

160,000 hours @ 45 °C
Demonstrated MTBF is significantly higher.

Indicators

None on standard version

Control Input

None

Alarm Output

None on standard version.
Available as option.

Package/Dimensions (W x H x D)

F1W: 160 x 51 x 198 mm
(6.3" x 2" x 7.8") including terminal block and flanges
Mounting holes are clear

Weight

1.4 kg (3 lbs)

Connections

Barrier type terminal block with 3/8" spacing

RoHS Compliance

Fully compliant

Warranty

Two years subject to application within good engineering practice

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

Designer and manufacturer of quality converters, inverters, 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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