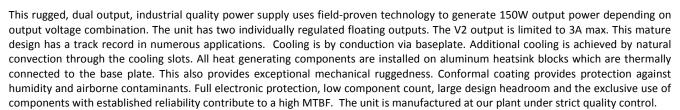
# 150W, Rugged, Dual Output, Industrial Quality AC/DC Power Supply MIW 152-F1 Series

- Rugged field proven design
- Two fully regulated outputs
- Isolated, floating outputs
- Conduction/convection cooled
- Full electronic protection





# **SPECIFICATIONS**

#### **Input Voltage**

95V to 264Vac universal 47 - 63Hz DC-input also available. Consult factory for other voltages

# **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 500Vdc between outputs

#### Standards

Designed to meet EN 60950-1 and related standards

#### EMI

EN55032 Class A with margins

#### Switching Frequency 47kHz ±2kHz

# **Hold Up Time**

Minimum 5ms at full load for 5% drop of output voltage at 120Vac or higher input

# **Output Voltage/Current**

Various combinations possible, for example: 5V/12A & 12V/3A 24V/3A & 24V/3A or 12V/6A & 24V/3A Consult factory for required output combination Both outputs are fully regulated The outputs are floating and isolated from each other. Either terminal can be grounded

# **Redundancy Diode**

None

# **Line/Load Regulation**

± 1% combined from zero load to full load on each output

# **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 hiccup mode short-circuit protection on both outputs

# Output Overvoltage Protection

Double regulator loop on main output.

Transzorb on second output.

# **Efficiency**

Output voltage dependent. Typically 80% at full load

#### Operating Temperature Range

0°C to 50°C cold plate temperature for full specification 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 Meaning

#### **MTBF**

140,000 hours @ 45 °C Demonstrated MTBF is significantly higher

#### Indicators

Green "Output ON" LED visible through the cooling slots

#### **Control Input**

None

#### **Alarm Output**

None on standard version Available as option

# Package/Dimensions (W x H x L)

F1: 114 x 51 x 201 mm (4.5" x 2" x 7.9") including terminal block and flanges Mounting holes are clear

# Weight

0.8 kg (1.8 lb)

#### Connections

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

# **RoHS Compliance**

Fully compliant

# Warranty

Two years subject to application within good engineering practice

**Terminal Block Pin-out** 

ı	O/P V1		O/P V2				INPUT		
	+	_	+	1	N/A	N/A	gND i	(+)캕	Ĵ Z
	1	2	3	4	5	6	7	8	9

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

Designer and manufacturer of DC-DC converters, AC-DC power supplies, DC-AC sine wave inverters, AC-AC frequency converters, DC-output 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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