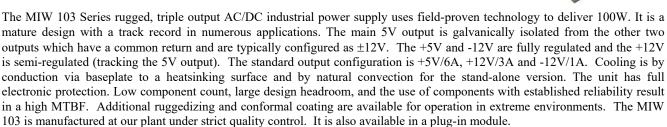
# 100W, Rugged, Triple Output, AC/DC Industrial Power Supply with Universal Input MIW 103-FT Series

- Rugged industrial quality
- Triple output
- Conduction/convection cooled
- Full electronic protection
- Field proven design





### **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 Class A as a minimum

# Switching Frequency 47 kHz +/-2kHz

#### **Hold Up Time**

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

#### Output Voltage/Current

+5V/6A, +12V/3A and -12V/1A, standard. Consult factory for other voltages

# Redundancy Diode

None

#### Line/Load Regulation

 $^+$ /-1% combined from no load to full load for the 5V and -12V outputs, +/-5% for the +12V 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 Thermal shutdown in case of insufficient cooling (self resetting)

# **Output Overvoltage Protection**

Double regulator loop

#### **Efficiency**

Output voltage dependent. Typically better than 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 tempera range

#### Cooling

Conduction via base plate and 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

#### MTBI

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

# Indicators

None on standard version

# Control Input

None

# Alarm Output

None

# Packaging/Connections:

Open PCB version:
PCB size 3.5"x 5"
Component height: 1.5"
Connector: header pins with 0.156"
spacing or barrier-type terminal
block

Weight: 0.2 kg (0.5 lb)

Enclosed case version (F0W) 102 x 51 x 153 mm (W x H x L)

(4.0" x 2.0" x 6.0") including terminal block and flanges
Connector: barrier-type terminal block

Weight: 0.8 kg (1.8 lb)

# **RoHS Compliance**

Fully compliant

# Warranty

Two years subject to application within good engineering practice

