

Transduction

Universal Input AC/DC Power Supply

TR-MIW100-12VDC

TR-MIW100-12VDC AC/DC Power Supply



Features

- ▶ Input range universal 95 ~ 264VAC, 47 ~ 63Hz - 105 ~ 350VDC is an available option.
- ▶ Output range 12VDC/8A.
- ▶ Input and output isolation.
- ▶ High efficiency 80% at full load.
- ▶ Inrush current limiting.
- ▶ Overload protection.
- ▶ Frequency 47KHz, ± 2 KHz.
- ▶ MTBF > 150,000 hours.
- ▶ Meet EN55022 Class B EMI.
- ▶ 5 year warranty.

TR-MIW100-12VDC

TR-MIW100-12VDC AC/DC Power Supply

Specification

Model

- ▶ TR-MIW100-12VDC

Input Voltage

- ▶ Universal 95 ~ 264VAC, 47 ~ 63Hz
- ▶ 105 ~ 350VDC available option

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

Frequency

- ▶ Switchable, 47KHz \pm 2KHz

Hold Up Time

- ▶ Minimum 10ms at full load for 5% drop of output voltage at > 120VAC input

Output Voltage/Current

- ▶ 12VDC/8A

Line/Load Regulation

- ▶ \pm 1% combined from no load to full load

Dynamic Response

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

Output Ripple/Noise

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

Output Overload Protection

- ▶ Current limiting with short circuit protection on both outputs
- ▶ Thermal shutdown in case of insufficient cooling (self-resetting)

Output Overvoltage Protection

- ▶ Double regulator loop on both outputs

Cooling

- ▶ Conduction to customer heatsink or chassis and natural convection

Efficiency

- ▶ 80% at full load

Operating Temperature

- ▶ 0 ~ 50°C

Temperature Drift

- ▶ 0.03% per °C over operating temperature range

MTBF

- ▶ MTBF > 150,000 hours

Standards

- ▶ EN 60950 and corresponding UL and CSA standards

EMI

- ▶ EN55022 Class B

RoHS Compliant

- ▶ Fully compliant

Warranty

- ▶ 5 years