

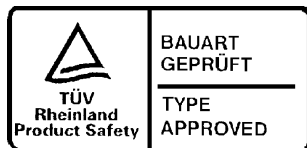


SPECIFICATION

For

SWITCHING POWER SUPPLY

M/N: MPE-F60-12





1.0 INTRODUCTIONS

MPE-F60-12 is a 12V/5A single output, 60Watts switching mode power supply with industrial standard pin out.

2.0 INPUT SPECIFICATIONS

2.1 Input voltage

The range of input voltage is from 90VAC to 264VAC.

2.2 Input frequency

The range of input frequency is from 47Hz to 63Hz.

2.3 Input current

The maximum input current is 0.65A at 115VAC or 0.32A at 230VAC.

2.4 Inrush current

The maximum cold inrush current is 50A at 264VAC input voltage.

3.0 OUTPUT SPECIFICATIONS

3.1 Load range

| Output voltage | Min. load | Rated load | Voltage accuracy |
|----------------|-----------|------------|------------------|
| +12V | 0A | 5A | 11.88V to 12.12V |

At factory, the output is checked between 11.88V and 12.12V at 60% rated load.

3.2 Ripple and noise

The peak to peak ripple and noise is less than 120mV. Measuring is done by 20MHz bandwidth limited oscilloscope and terminated each output with a 0.1µF ceramic capacitor and a 10µF electrolysis capacitor at rated load, nominal line.

3.3 Line regulation

The line regulation is less than +/-0.5% while measuring at rated load and from 100VAC to 240VAC input voltage changing.

3.4 Load regulation

The load regulation for output is less than +/-1%, measuring is done by changing the output load +/-40% from 60% rated load.



4.0 GENERAL FEATURES

4.1 Efficiency

The efficiency is 84% typical while measuring is at nominal line and rated load.

4.2 Hold up time

Hold up time is 8mS typical at 115VAC input, full load.

4.3 Protection

The power supply will go into hiccup mode against short circuit or over load conditions, and will auto-recovery while faulty conditions are removed.

5.0 ENVIRONMENT SPECIFICATIONS

5.1 Operating temperature

0°C to 50°C

5.2 Storage temperature

-40°C to 85°C

5.3 Humidity

The AC adapter will be capable of operating in humidity of 5% to 95% relative humidity, non-condensing.

6.0 INTERNATIONAL STANDARDS

6.1 Safety standards

Designed to meet the following standards:

UL 1950

TUV EN60950

CE mark

6.2 EMI standards

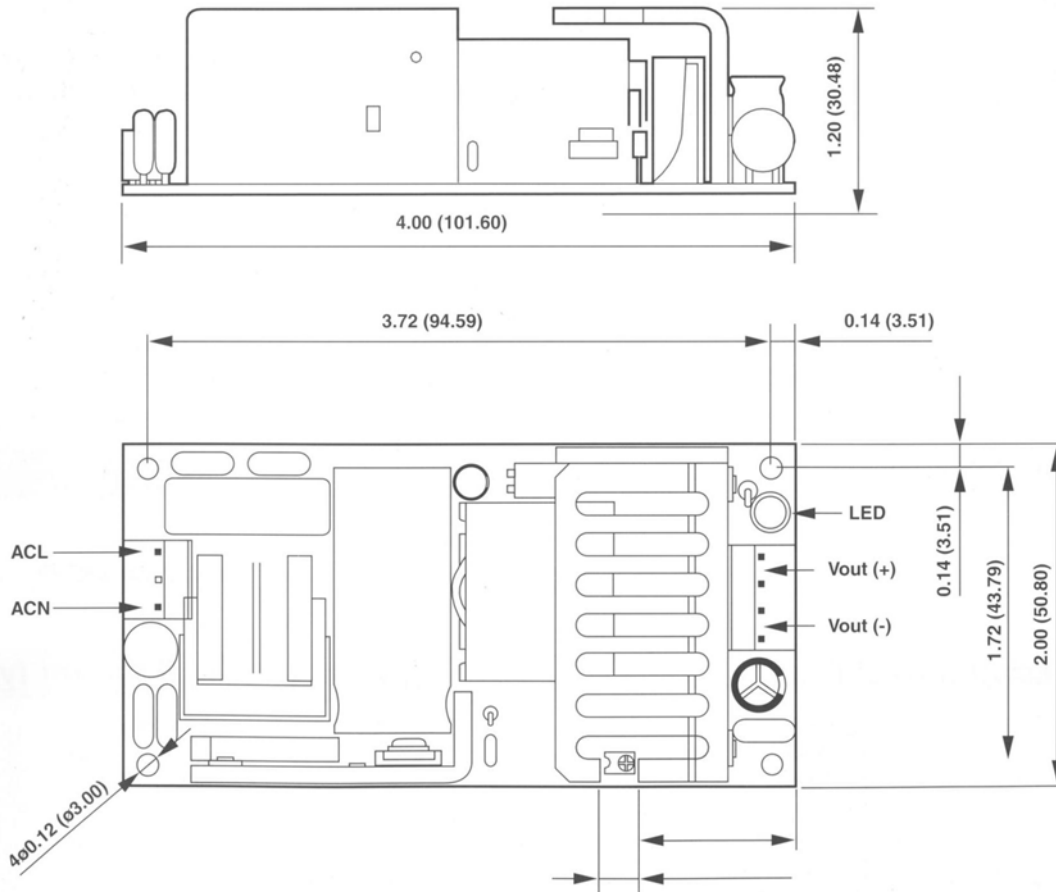
Designed to meet the following limits:

EN 55022 class "B"



7.0 MECHANICAL SPECIFICATION

Size: 101.6 mm x 50.8 mm x 30.5 mm



7.1 Dimensions

Dimensions are shown in mm (inch) as above. Tolerance specified is +/-0.4mm.

7.2 Connectors

Input : mates with Molex housing 09-50-3031 and Molex 2878 series crimp terminal.

Output : mates with Molex housing 09-50-3041 and Molex 2878 series crimp terminal.