

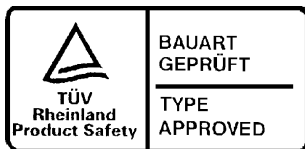


# SPECIFICATION

For

SWITCHING POWER SUPPLY

**M/N: MPE-F40-24**





### 1.0 INTRODUCTIONS

MPE-F40-24 is a 24VDC/1.67A single output, 40 Watts switching mode power supply. It's an industry standard pin out model.

### 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 cold inrush current will limit less than 50A at 264VAC input voltage.

### 3.0 OUTPUT SPECIFICATIONS

#### 3.1 Load range

Output voltage	Min. load	Rated load	Voltage accuracy
+24V	0A	1.67A	23.5V to 24.5V

At factory, the output is checked between 23.5V to 24.5V at 60% rated load.

#### 3.2 Ripple and noise

The peak to peak ripple and noise is less than 240mV. 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 86% 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 do 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 EN 60950

CE mark

### 6.2 EMI standards

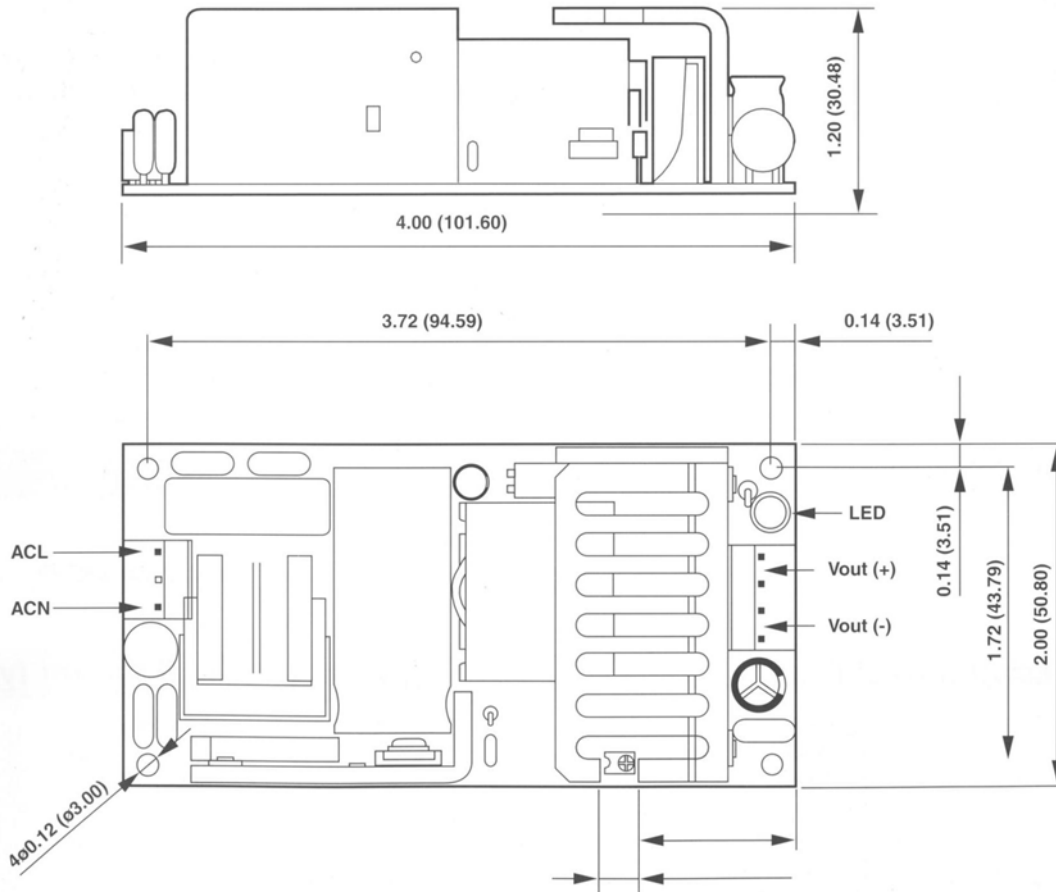
Designed to meet the following limits:

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 inch (mm) as above. Tolerance specified is +/-0.4mm.

#### 7.2 Connectors

I/P connector : Molex housing 09-50-3031 and Molex 2878 series crimp terminal.

O/P connector: Molex housing 09-50-3041 and Molex 2878 series crimp terminal.