### **ICM12 Series**

# 12W International Power Adapter

- DOE Level VI Efficiency Rating
- Universal Input: 90 ~ 264Vac, 47/63 Hz
- UL/cUL 62368-1 Safety Approved
- Corded Output Connection
- 5Vdc USB Connection Available
- US, UK, AU & EU AC adapters
- · Light Weight and Compact
- RoHS Compliant Class II Design



Model No.	Application	Output Connector	Output Voltage	Output Current			Voltage	Ripple	Line	Load
				Min	Rated	Peak	Accuracy	Noise	Reg.	Reg.
ICM12-050U	ITE	USB Connector	+5.0V	0	2.10	_	±5%	< ± 1%	± 1%	± 5%
ICM12-050	ITE	2.1mm I.D. x 5.5mm O.D. x 9.5mm Barrel	+5.0V	0	2.10	-	±5%	< ± 1%	± 1%	± 5%
ICM12-070	ITE		+7.0V	0	1.71	-	±5%	< ± 1%	± 1%	± 5%
ICM12-090	ITE		+9.0V	0	1.33	-	±5%	< ± 1%	± 1%	± 5%
ICM12-120	ITE		+12.0V	0	1.00	-	±5%	< ± 1%	± 1%	± 5%
ICM12-180	ITE		+18.0V	0	0.67	-	±5%	< ± 1%	± 1%	± 5%
ICM12-240	ITE		+24.0V	0	0.50	_	±5%	< ± 1%	± 1%	± 5%
ICM12-300	ITE		+30.0V	0	0.40	_	±5%	< ± 1%	± 1%	± 5%
ICM12-360	ITE		+36.0V	0	0.33	_	±5%	< ± 1%	± 1%	± 5%

- Output voltages from 5.0Vdc to 36.0Vdc are available in increments of 0.1V. Please contact Tri-Mag, LLC for the part number and specifications for your output voltage
  requirement and application.
- The output voltage is verified to specs at 60 percent rated load condition.
- The line regulation is defined by changing ± 10 percent of input voltage from the nominal line at rated load.
- The load regulation is defined by changing  $\pm$  40 percent of the measured output load from 60 percent of the rated load.
- The **ripple and noise** is measured by using 20MHz bandwidth limited oscilloscope with each output terminated with a 10 μF electrolytic and a 0.1 μF capacitor at rated load and nominal line.
- The efficiency is measured at rated load and nominal line.





## **ICM12 Series**

An innovative, reliable, and inexpensive international adapter. That's the ICM12 Series.

This economical, UL/cUL 62368-1 approved Class II design is a DOE Level VI compliant power supply/ charger rated up to 12W when charging any mobile

or wireless device. Plenty of voltage levels to choose from, too. From 5.0Vdc all the way up to 36.0Vdc (in increments of 0.1V), to match your need.

Contact us (800-657-0853 or Sales@Tri-Mag.com) for the part number to match your specifications.

# **Specifications**

#### Input

Input Voltage Input Frequency

No Load Input Power Input Current

Inrush Current Leakage Current Input Connection 90 Vac ~ 264 Vac

47 Hz to 63 Hz

< 0.1W

1.2A Max. 40A Max.

0.25mA Max. US (others available)

#### Output

Output Voltage Range Output Current Range Minimum Load Line Regulation

5.0 to 36.0 Vdc

330 - 2100mA, 12W Max.

No min. load required.

± 1% at rated load across input voltage range

Load Regulation Ripple & Noise Overvoltage Protection

Overload Protection

Short Circuit Protection

100mVp-p Max. Auto recovery

+ 5%

Auto recovery Auto recovery

#### General

**MTBF** 

Insulation Resistance Efficiency

50MΩ Min.

Level VI compliant

50,000 hrs to MIL-HDBK-217F at +25°C

#### Environmental

**Operating Temperature** Operating Humidity Storage Temperature

0°C to 40°C

5% - 95% RH, Non-Condensing

-20°C to +80°C

**EMC & Safety** 

Safety Approvals

UL: ANSI/UL62368-1

cUL: CAN/CSA C22.2 No. 62368-1

**EMC** Approvals

#### Warranty

Warranty Period

· 3 years

#### **Dimensions and Notes**

Dimensions in mm

Tolerance

Size

Weight

Connectors

± 0.2mm

59.0 x 40.9 x 31.5 mm 2.32 x 1.60 x 1.24 Inches

Approx. 130g (4.6 oz.)

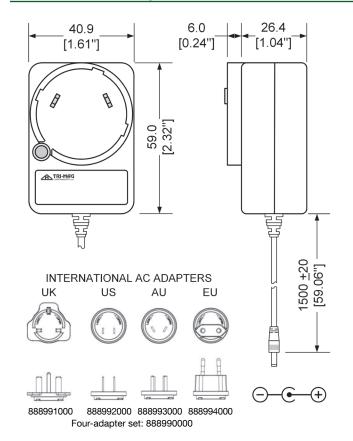
AC input, Interchangable 2-prong

inlet plug

DC output, standard 5.5mm x 2.1mm corded dc output jack, USB output connector or per customer specification.

Cord length • 1500 ± 20 mm (59 ± .8")

#### Mechanical Drawing



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