ICM20 Series

20W International Power Adapter

- DOE Level VI Efficiency Rating
- RoHS Compliant
- Safety Approvals: UL/cUL 62368-1
- Input Protection
- Compact Size
- US, UK, AU and EU Adapters Available



Model No.*	Application	Output Connector	Output Voltage	Load (A)			Voltage	Ripple	Line	Load
				Min	Rated	Peak	Accuracy	Noise	Reg.	Reg.
ICM20-050U	A/V & ITE	USB Type A	+5.0V	0	3.00	_	±5%	50mVpp	± 1%	± 5%
ICM20-050	A/V & ITE	Corded 5.5mm x 2.1mm x 9.5mm DC plug	+5.0V	0	3.00	_	±5%	50mVpp	± 1%	±5%
ICM20-059	A/V & ITE		+5.9V	0	3.00	_	±5%	60mVpp	± 1%	±5%
ICM20-075	A/V & ITE		+7.5V	0	2.67	_	±5%	75mVpp	± 1%	±5%
ICM20-090	A/V & ITE		+9.0V	0	2.22	_	±5%	90mVpp	± 1%	± 5%
ICM20-120	A/V & ITE		+12.0V	0	1.67	_	±5%	120mVpp	± 1%	± 5%
ICM20-150	A/V & ITE		+15.0V	0	1.33	_	±5%	150mVpp	± 1%	± 5%
ICM20-180	A/V & ITE		+18.0V	0	1.11	_	±5%	180mVpp	± 1%	± 5%
ICM20-240	A/V & ITE		+24.0V	0	0.83	_	±5%	240mVpp	± 1%	± 5%
ICM20-300	A/V & ITE		+30.0V	0	0.67	-	±5%	240mVpp	± 1%	± 5%
ICM20-360	A/V & ITE		+36.0V	0	0.56	_	±5%	240mVpp	± 1%	± 5%

^{*} Model No. format: ICM20-YYY, where YYY=050 to 360 representing output voltage. Output voltages from 5.0Vdc to 36Vdc are available for Level VI compliance in increments of 0.1V. Please contact Tri-Mag, LLC for the part number and specifications for your output voltage and/or specific output connector requirements and application.

- Output voltage is verified to specification at 60% rated load condition.
- Line Regulation is defined by changing ± 10% of input voltage from nominal line at rated load.
- Load Regulation is defined by changing ± 40% of measured output load from 60% rated load.
- The ripple and noise is measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 10 μF electrolytic and a 0.1 μF capacitor at rated load and nominal line.
- Efficiency is measured at rated load and nominal line.





ICM20 Series

Approved to UL/cUL 62368-1, the ICM20 Series is an economical and dependable whether powering stationary or portable devices.

This DOE Level VI compliant international power supply/charger is rated up to 20W, with plenty of voltage levels to choose from: 5.0Vdc to 36Vdc (in increments of 0.1V), to match your specific need.

Call us at (414-649-4200) for the part number to match your particular need.

Specifications

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Input Voltage Input Frequency Input Current Inrush Current

Leakage Current

- 90 VAC ~ 264 Vac
- 47 Hz to 63 Hz
- 1.2A Max. 40A Max
- 0.25mA Max.

Output

Output Voltage Range **Output Current Range** Minimum Load Line Regulation

- 5.0 ~ 36Vdc
 - 555 3000mA, 20.0W Max. No min. load required.
- ± 1% at rated load across input voltage range.

Ripple & Noise Overvoltage Protection Overload Protection Short Circuit Protection

- 100mVp-p Max. Auto recovery
- Auto recovery Auto recovery
- **Output Power Range**
- 0-20W

General

Insulation Resistance Efficiency

- 50MΩ Min.
- Level VI compliant
- Standby Power

Leakage Current

0.1W Max 0.25mA Max

Environmental

Operating Temperature Operating Humidity Storage Temperature

- 0°C to 40°C
- 5% 95% RH, Non-Condensing
- -20°C to +80°C
 - Convection
- Humidity 5~95%RH (non-condensing)
- 0.05%/°C Temperature Coefficient

EMC & Safety

Safety Approvals

Cooling

- UL: ANSI/UL 62368-1
- cUL: CAN/CSA 22.2 No. 62368-1
- **EMC Approvals:** FCC

Warranty

Warranty Period 3 years

Dimensions

Size

• 59.0 x 40.9 x 26.5 mm 2.32 x 1.61 x 1.04 Inches

Tolerance

±0.2mm

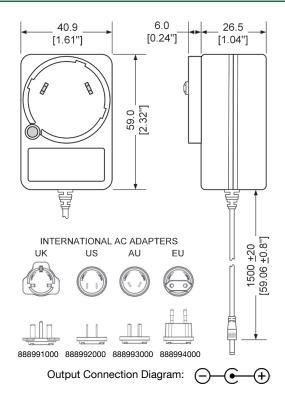
Weight Connectors

- Approx. 130g (4.6 oz.)
- AC input, US 2-prong inlet plug
- DC output, standard 5.5mm x 2.1mm x 9.5mm corded dc output jack or USB output option or per customer specifica-

Cord Length

1500 ± 20mm (59 ± .8")

Mechanical Drawing



2020-10