

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 Accuracy	Ripple Noise	Line Reg.	Load Reg.
				Min	Rated	Peak				
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 $\pm 10\%$ of input voltage from nominal line at rated load.
- **Load Regulation** is defined by changing $\pm 40\%$ 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 μ F electrolytic and a 0.1 μ F 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

Input

Input Voltage	• 90 VAC ~ 264 Vac
Input Frequency	• 47 Hz to 63 Hz
Input Current	• 1.2A Max.
Inrush Current	• 40A Max.
Leakage Current	• 0.25mA Max.

Output

Output Voltage Range	• 5.0 ~ 36Vdc
Output Current Range	• 555 - 3000mA, 20.0W Max.
Minimum Load	• No min. load required.
Line Regulation	• $\pm 1\%$ at rated load across input voltage range.
Ripple & Noise	• 100mVp-p Max.
Overvoltage Protection	• Auto recovery
Overload Protection	• Auto recovery
Short Circuit Protection	• Auto recovery
Output Power Range	• 0-20W

General

Insulation Resistance	• 50M Ω Min.
Efficiency	• Level VI compliant
Standby Power	• 0.1W Max
Leakage Current	• 0.25mA Max

Environmental

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

EMC & Safety

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

Warranty

Warranty Period	• 3 years
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Dimensions

Size	• 59.0 x 40.9 x 26.5 mm 2.32 x 1.61 x 1.04 Inches
Tolerance	• $\pm 0.2\text{mm}$
Weight	• Approx. 130g (4.6 oz.)
Connectors	• 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 specification.
Cord Length	• 1500 $\pm$ 20mm (59 $\pm$.8")

Mechanical Drawing

