

External Power Supply



Features:

- Energy star level V, $\geq 15V$.
- CEC 2008 and EISA 2007 compliant.
- High efficiency.
- No load input power $<0.5 W$.
- Compact dimensions.
- International safety approvals.

Specifications:

Input:

Input voltage	: 90 to 264V ac.
Input frequency	: 47 to 63Hz.
Maximum inrush current	: 50A at 230V ac.
Earth leakage current	: $<1mA$.
Harmonic currents	: Meets EN61000-3-2, class A.

Output:

Output voltage	: See table.
Minimum load	: No minimum load required.
Maximum line regulation	: $\pm 0.5\%$.
Maximum load regulation	: $\pm 5\%$.
Maximum ripple and noise	: 200mv pk-pk, 20 MHz BW (see note 1).
Overvoltage protection	: see table.
Overload protection	: 110 to 180%.
Short circuit protection	: Continuous (hiccup/trip and restart mode with auto recovery).
Transient response	: 4% maximum deviation, recovering to less than 1% within 500 μs for a 50% step load change.

General:

Efficiency	: 87% typical, energy star level V compliant.
Isolation	: 3000V ac input to output. 1500V ac input to ground.

Environmental:

Operating temperature	: 0°C to +40°C, no derating.
Storage temperature	: -10°C to +85°C.

EMC and Safety:

Emissions	: EN55022 level B conducted and radiated.
Harmonic current	: EN61000-3-2 class A.
Voltage flicker	: EN61000-3-3.
ESD immunity	: EN61000-4-2.
Radiated immunity	: EN61000-4-3.
EFT/burst	: EN61000-4-4.
Surge	: EN61000-4-5.

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Specifications:

EMC and Safety:

Conducted immunity : EN61000-4-6.
 Magnetic field : EN61000-4-8.
 Dips and interruptions : EN61000-4-11.
 Safety approvals : EN60950-1: UL/cUL60950-1, CE mark.

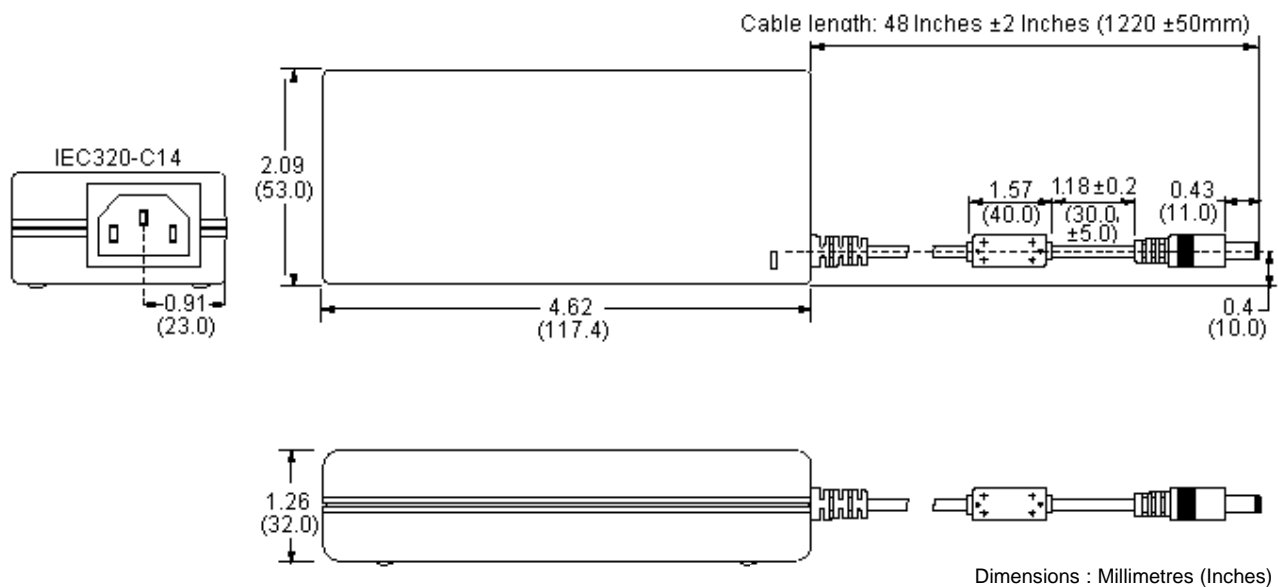
Models and Ratings:

Description	Output Power	Voltage	Current	OVP Setting (2)	Efficiency	Part Number
External Power Supply, 60W	60 W	12.0V	5.0 A	16 V	85 %	MCEXT12V60W
		15.0V	4.0 A	18 V		MCEXT15V60W
		18.0V	3.33 A	24 V	87 %	MCEXT18V60W
		24.0V	2.5 A	30 V		MCEXT24V60W

Notes:

1. Measured at the output connector with a 0.1µF ceramic capacitor and a 10µF electrolytic capacitor.
2. Typical values.

Mechanical Details:



Notes:

Output connector is barrel type with 11mm length, 5.5mm diameter outer, 2.5mm diameter inner with centre + and outer shell - polarity.

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