# External Power Supply

## Features:

- Energy star level V
- CEC 2008 and EISA 2007 compliant
- High efficiency
- International safety approvals
- Compact dimensions
- Class I and II versions

## Specifications:

**Input:**

| | |
|---|---|
| Input voltage | : 90 to 264V AC |
| Input frequency | : 47 to 63 Hz |
| Inrush current | : 15A / 30A for 115 / 230V AC, cold start |
| Earth leakage current | : 0.75mA at 240V AC |
| Harmonic currents | : Meets EN61000-3-2, class A |
| No load input power | : <0.5W |

**Output:**

| | |
|---|---|
| Output voltage | : See table |
| Minimum load | : No minimum load required |
| Total regulation | : See table |
| Maximum ripple and noise | : 1% pk-pk, 20MHz bandwidth |
| Short circuit protection | : Trip and restart (hiccup mode), auto recovery |
| Transient response | : 2% deviation, recovery to within 1% of nominal in 500 µs for 50% load change |

**General:**

| | |
|---|---|
| Efficiency | : 87% typical, energy star level V compliant |
| Isolation | : 3,000V AC input to output<br>: 1,500V AC input to ground*<br>: 500V DC output to ground*<br>: *Not C8 version |

**Environmental:**

| | |
|---|---|
| Operating temperature | : 0°C to +40°C |
| Storage temperature | : -40°C to +85°C |
| Cooling | : Convection cooled |
| Operating altitude | : 3,000m |

**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 |
| 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 |

# External Power Supply

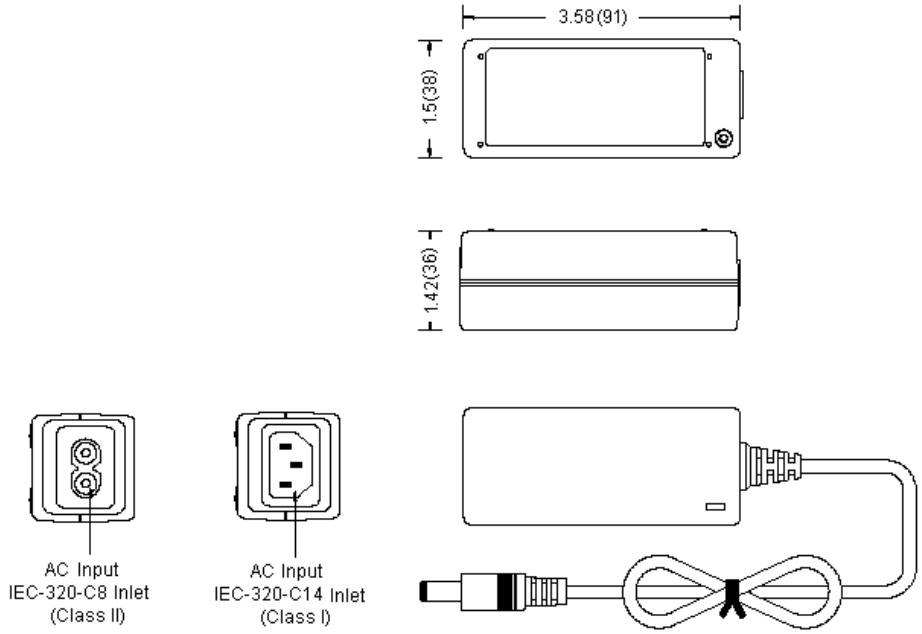
## Models and Ratings:

| Max. Output Power | Output Voltage[3] (V DC) | Output Current (A) | Total Regulation[1] | Part Number[2] |
|---|---|---|---|---|
| 12W | 5 | 2.4 | 5% | MCEXT5V15WC2 |
| | 6 | 2 | | MCEXT6V15WC2 |
| | 7 | 1.71 | | MCEXT7V15WC2 |
| 15W | 9 | 1.66 | | MCEXT9V15WC2 |
| | 12 | 1.25 | | MCEXT12V15WC2 |
| | 15 | 1 | | MCEXT15V15WC2 |
| | 18 | 0.83 | | MCEXT18V15WC2 |
| | 24 | 0.62 | | MCEXT24V15WC2 |

**Notes:**

1. Total regulation includes line regulation and load regulation
2. Replace x with 1 for Class I and 2 for Class II e.g. MCEXT24V15WC2 for Class II 24 V model
3. The 24 V DC output model meets Energy Star Level IV, all other models meet Energy Star Level V

## Mechanical Details




Dimensions : Millimetres (Inches)

**Notes:**

1. All dimensions are shown in inches (mm). Tolerance ±0.04 (±1) maximum
2. Output connector : is 0.22 (5.5) outer diameter barrel, 0.10 (2.5) inner diameter barrel with centre positive (+) and outer shell negative (-). Length is 0.433 (11)
3. Output cable length is 48 inches (1,220 mm) approximately
4. Weight: 0.36 lbs (165 g)

## Part Number Table

| Description | Part Number |
|---|---|
| Power Supply, 15W, C14 INLET, 12V | MCEXT12V15WC1 |
| Power Supply, 15W, C8 INLET, 12V | MCEXT12V15WC2 |
| Power Supply, 15W, C14 INLET,15V | MCEXT15V15WC1 |
| Power Supply, 15W, C8 INLET, 15V | MCEXT15V15WC2 |
| Power Supply, Plug IN, 5V, 2.4A, 12W | MCEXT5V15WC1 |
| Power Supply, 15W, C8 INLET, 5V | MCEXT5V15WC2 |
| Power Supply, 15W, C14 INLET, 18V | MCEXT18V15WC1 |
| Power Supply, 15W, C8 INLET, 18V | MCEXT18V15WC2 |
| Power Supply, 15W, C14 INLET, 24V | MCEXT24V15WC1 |
| Power Supply, 15W, C8 INLET, 24V | MCEXT24V15WC2 |
| Power Supply, 15W, C14 INLET, 6V | MCEXT6V15WC1 |
| Power Supply, 12W, C8 INLET, 6V | MCEXT6V15WC2 |
| Power Supply, 15W, C14 INLET, 7.5V | MCEXT7V15WC1 |
| Power Supply, 15W, C8 INLET, 7.5V | MCEXT7V15WC2 |
| Power Supply, 15W, C14 INLET, 9V | MCEXT9V15WC1 |
| Power Supply, 15W, C8 INLET, 9V | MCEXT9V15WC2 |