

# 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 $\mu$ s 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      |

[www.element14.com](http://www.element14.com)  
[www.farnell.com](http://www.farnell.com)  
[www.newark.com](http://www.newark.com)



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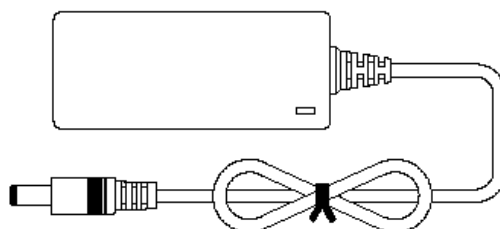
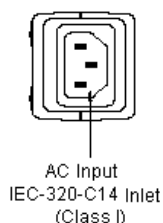
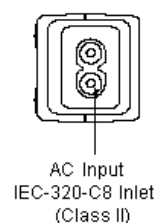
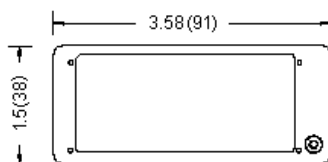
## Models and Ratings:

| Max. Output Power | Output Voltage <sup>(3)</sup> (V DC) | Output Current (A) | Total Regulation <sup>(1)</sup> | Part Number <sup>(2)</sup> |
|-------------------|--------------------------------------|--------------------|---------------------------------|----------------------------|
| 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  $\pm 0.04$  ( $\pm 1$ ) 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  |

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