

**V-INFINITY**  
a division of CUI INC

date 09/2010

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**SERIES: 15 W WALL PLUG****DESCRIPTION: SWITCHING POWER SUPPLY****FEATURES**

- universal AC input
- regulated output voltage
- short circuit
- meets EISA / efficiency level IV regulations
- custom designs available



| MODEL       | output voltage    |  | output current |            | output wattage | ripple*         | efficiency level | cord length<br>(mm) |
|-------------|-------------------|--|----------------|------------|----------------|-----------------|------------------|---------------------|
|             | nominal<br>(V dc) |  | min<br>(A)     | max<br>(A) | max<br>(W)     | max.<br>(mVp-p) |                  |                     |
| EPS050260UH | 5                 |  | 0              | 2.6        | 13             | 150             | IV               | 1000 +150/-0        |
| EPS060250UH | 6                 |  | 0              | 2.5        | 15             | 150             | IV               | 1000 +150/-0        |
| EPS070214UH | 7.5               |  | 0              | 2.14       | 14.7           | 150             | IV               | 1000 +150/-0        |
| EPS090166UH | 9                 |  | 0              | 1.66       | 14.9           | 150             | IV               | 1000 +150/-0        |
| EPS120125UH | 12                |  | 0              | 1.25       | 15             | 150             | IV               | 1830 +150/-0        |
| EPS150100UH | 15                |  | 0              | 1.0        | 15             | 150             | IV               | 1830 +150/-0        |
| EPS180083UH | 18                |  | 0              | 0.83       | 14.9           | 150             | IV               | 1830 +150/-0        |
| EPS200075UH | 20                |  | 0              | 0.75       | 15             | 250             | IV               | 1830 +150/-0        |
| EPS240063UH | 24                |  | 0              | 0.63       | 15.1           | 250             | IV               | 1830 +150/-0        |

\*at full load, 100 ~ 240 V ac input, measured at 20MHz bandwidth with a 10 uF electrolytic cap and a 0.1 uF ceramic cap on the output

**PART NUMBER KEY****EPS050260UH - XX - SZ - CXX**Base Number  
example of 5 V dc, 2.6 ADC Plug type:  
see output plug options  
on page 5Factory  
DesignationReserved for  
custom orders

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**SERIES: 15 W WALL PLUG****DESCRIPTION: SWITCHING POWER SUPPLY**

## INPUT

| parameter                 | conditions/description                             | min | nom | max      | units  |
|---------------------------|--|-----|-----|----------|--------|
| rated input voltage       |  | 100 |     | 240      | V ac   |
| input voltage range       |  | 90  |     | 264      | V ac   |
| rated frequency           |  | 50  |     | 60       | Hz     |
| frequency range           |  | 47  |     | 63       | Hz     |
| inrush current            | at 115 V ac, cool start<br>at 230 V ac, cool start |     |     | 30<br>50 | A<br>A |
| no load power consumption | 100 ~ 240 V ac input                               |     |     | 0.3      | W      |

## OUTPUT

| parameter                | conditions/description            | min  | nom | max  | units |
|--------------------------|-----------------------------------|------|-----|------|-------|
| line regulation          |                                   |      | ±1  |      | %     |
| load regulation          |                                   |      | ±5  |      | %     |
| over voltage protection  | output shutdown                   | 110% |     | 140% | V dc  |
| short circuit protection | output shut down and auto restart |      |     |      |       |

## SAFETY & EMI

| parameter             | conditions/description                | min | nom | max  | units |
|-----------------------|---------------------------------------|-----|-----|------|-------|
| HI-POT                | input to output at 10 mA for 1 minute |     |     | 3000 | V ac  |
| insulation resistance | input to output at 500 V dc           | 100 |     |      | MΩ    |
| safety approvals      | UL/cUL (60950-1)                      |     |     |      |       |
| EMI standard          | FCC part 15 class B                   |     |     |      |       |
| leakage current       |                                       |     |     | 0.25 | mA    |
| RoHS compliant        | yes                                   |     |     |      |       |

## ENVIRONMENTAL

| parameter             | conditions/description | min | nom | max | units |
|-----------------------|------------------------|-----|-----|-----|-------|
| operating temperature |                        | 0   |     | 40  | °C    |
| operating humidity    |                        | 20  |     | 80  | %     |
| storage temperature   |                        | -10 |     | 70  | °C    |
| storage humidity      |                        | 10  |     | 90  | %     |



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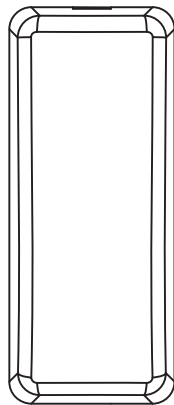
date 09/2010

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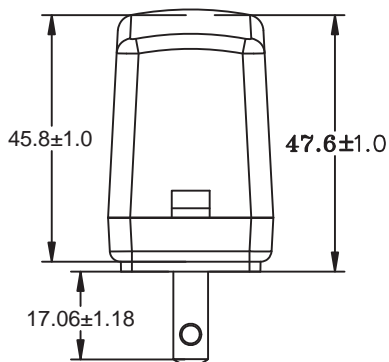
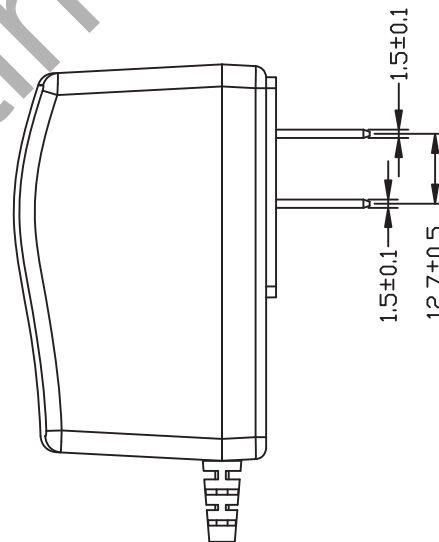
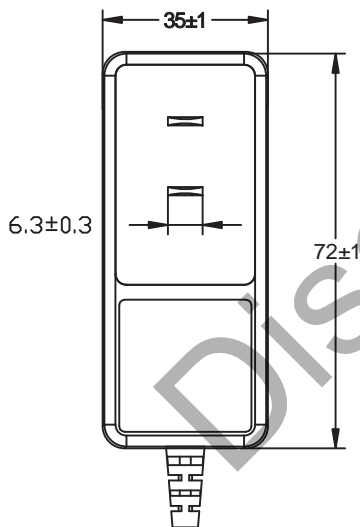
SERIES: 15 W WALL PLUG

DESCRIPTION: SWITCHING POWER SUPPLY

**MECHANICAL DRAWING**



|            |  |
|------------|--|
| input plug | Fixed (UL)                                       |
| weight     | 180 g  |
| case size  | 72 L x 47.6 W x 35 H mm<br>tolerance: $\pm 1$ mm |



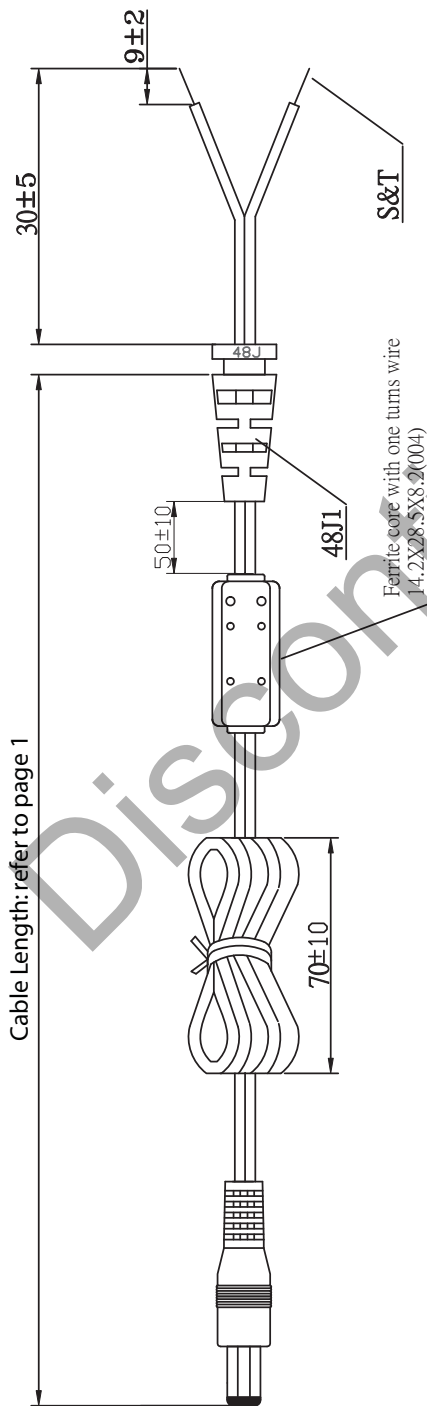
Discontinued



SERIES: 15 W WALL PLUG

DESCRIPTION: SWITCHING POWER SUPPLY

DC CORD



Black wire, white stripe: Positive

| Cable Gauge |        |
|-------------|--------|
| EP5050260   | 18 AWG |
| EP5060250   | 18 AWG |
| EP5070214   | 18 AWG |
| EP5090166   | 20 AWG |
| EP5120125   | 20 AWG |
| EP5150100   | 20 AWG |
| EP5180083   | 20 AWG |
| EP5200075   | 20 AWG |
| EP5240063   | 20 AWG |

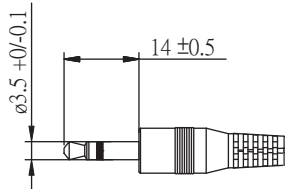


SERIES: 15 W WALL PLUG

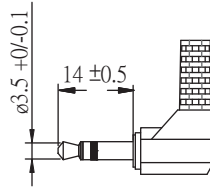
DESCRIPTION: SWITCHING POWER SUPPLY

**DC OUTPUT PLUG OPTIONS**

**3.5 mm Phono Plug**



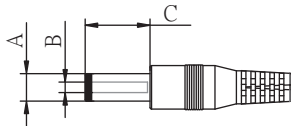
P1



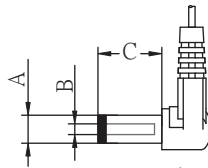
P1R

\*Tip positive

**Standard DC Plug**



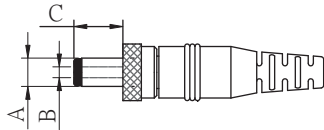
Standard PX



Right Angle PXR

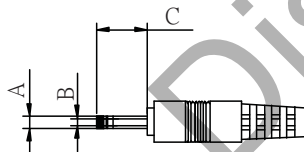
|        | A   | B    | C   | Unit |
|--------|-----|------|-----|------|
| P5/P5R | 5.5 | 2.1  | 12  | mm   |
| P6/P6R | 5.5 | 2.5  | 9.5 | mm   |
| P7/P7R | 3.5 | 1.3  | 9.5 | mm   |
| P8/P8R | 3.8 | 1.35 | 9.5 | mm   |
| P9/P9R | 3.8 | 1.05 | 9.5 | mm   |

**Locking DC Plug**

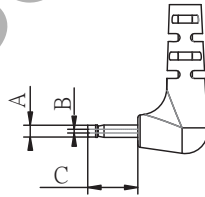


|     | A   | B   | C   | Unit |
|-----|-----|-----|-----|------|
| P10 | 5.5 | 2.1 | 9.5 | mm   |
| P11 | 5.5 | 2.5 | 9.5 | mm   |

**EIAJ Plugs**

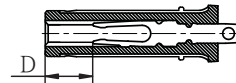


Standard PXX

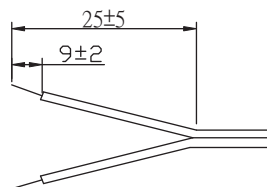


Right Angle PXXR

|          | EIAJ   | A    | B   | C   | D   | Unit |
|----------|--------|------|-----|-----|-----|------|
| P12/P12R | EIAJ-1 | 2.35 | 0.7 | 9.5 | NA  | mm   |
| P13/P13R | EIAJ-2 | 4.0  | 1.7 | 9.5 | 5.0 | mm   |
| P14/P14R | EIAJ-3 | 4.75 | 1.7 | 9.5 | 5.0 | mm   |



**Stripped and Tinned**



**DC PLUG TYPE**

**ST**  
stripped and tinned

**PXX X X**

Plug type      Plug angle: "blank" = standard  
R = right angle      Plug polarity: "blank" = N/A  
P = center positive      N = center negative

⊖ ⊕      ⊕ ⊖

\*Contact CUI for additional output plug options.



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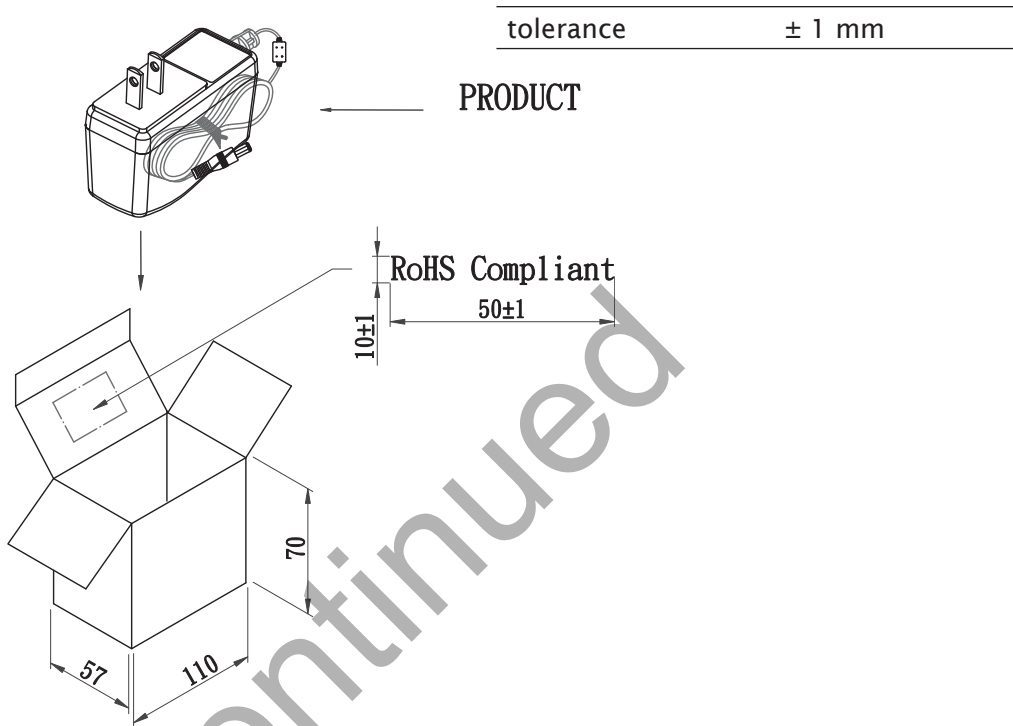
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SERIES: 15 W WALL PLUG

DESCRIPTION: SWITCHING POWER SUPPLY

**INDIVIDUAL PACKAGING**



**PACKAGING**

|           |            |
|-----------|------------|
| tolerance | +7 / -0 mm |
|-----------|------------|

CARTON INTERNAL SIZE: 450\*308\*300mm

Q'TY: 80PCS(20\*4)

"RoHS Compliant"

