


SERIES: 12 W WALL PLUG - UK BLADE | **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

- up to 12 W power
- universal input (90~264 Vac)
- single regulated output from 5~12 V
- over voltage, over current, and short circuit protections
- TUV safety approvals
- level V efficiency
- custom designs available



| MODEL | output voltage (Vdc) | output current max (A) | output power max (W) | ripple and noise ¹ max (mVp-p) | efficiency level |
|--------------|-------------------------|---------------------------|-------------------------|--|------------------|
| EPSA050250UB | 5 | 2.5 | 12 | 50 | V |
| EPSA120100UB | 12 | 1 | 12 | 120 | V |

Notes: 1. At full load, 100 ~ 240 Vac input, 20 MHz bandwidth oscilloscope, each output terminated with 10 μ F aluminum electrolytic and 0.1 μ F ceramic capacitors.

PART NUMBER KEY

EPSA050250UB - XX - EJ - CXX

Base Number
example of 5 Vdc, 2.5 A

DC Plug Type

Factory Designation

Reserved for Custom Configurations

INPUT

| parameter | conditions/description | min | nom | max | units |
|----------------|-----------------------------------|-----|-----|-----|-------|
| voltage | | 90 | | 264 | Vac |
| frequency | | 47 | | 63 | Hz |
| current | | | | 0.4 | A |
| inrush current | at 115 Vac, full load, cold start | | | 30 | |

OUTPUT

| parameter | conditions/description | min | nom | max | units |
|-----------------|----------------------------------|-----|-----|-----|-------|
| line regulation | | | ±5 | | % |
| load regulation | | | ±5 | | % |
| start-up | | | | 2 | s |
| hold-up | at 110 Vac, 50 Hz, 80% max. load | 10 | | | ms |

PROTECTIONS

| parameter | conditions/description | min | nom | max | units |
|--------------------------|-----------------------------------|-----|-----|-----|-------|
| over voltage protection | output shut down | | | | |
| over current protection | | | | 200 | % |
| short circuit protection | output shut down and auto restart | | | | |

SAFETY & COMPLIANCE

| parameter | conditions/description | min | nom | max | units |
|----------------------|---|-----|-----|---------|-------|
| isolation voltage | input to output at 10 mA for 2 seconds | | | 3,000 | Vac |
| isolation resistance | input to output at 500 Vdc | 10 | | | MΩ |
| safety approvals | EN 60950-1, CE | | | | |
| EMI/EMC | EN 55022 Class B, AS/NZS CISPR 22 Class B, EN 61000-3-(2,3), IEC 61000-4-(2,3,4,5,6,8,11) | | | | |
| leakage current | | | | 0.25 | mA |
| RoHS compliant | yes | | | | |
| MTBF | at full load, 25°C, Telcordia SR-332, Issue 2 | | | 300,000 | hours |

ENVIRONMENTAL

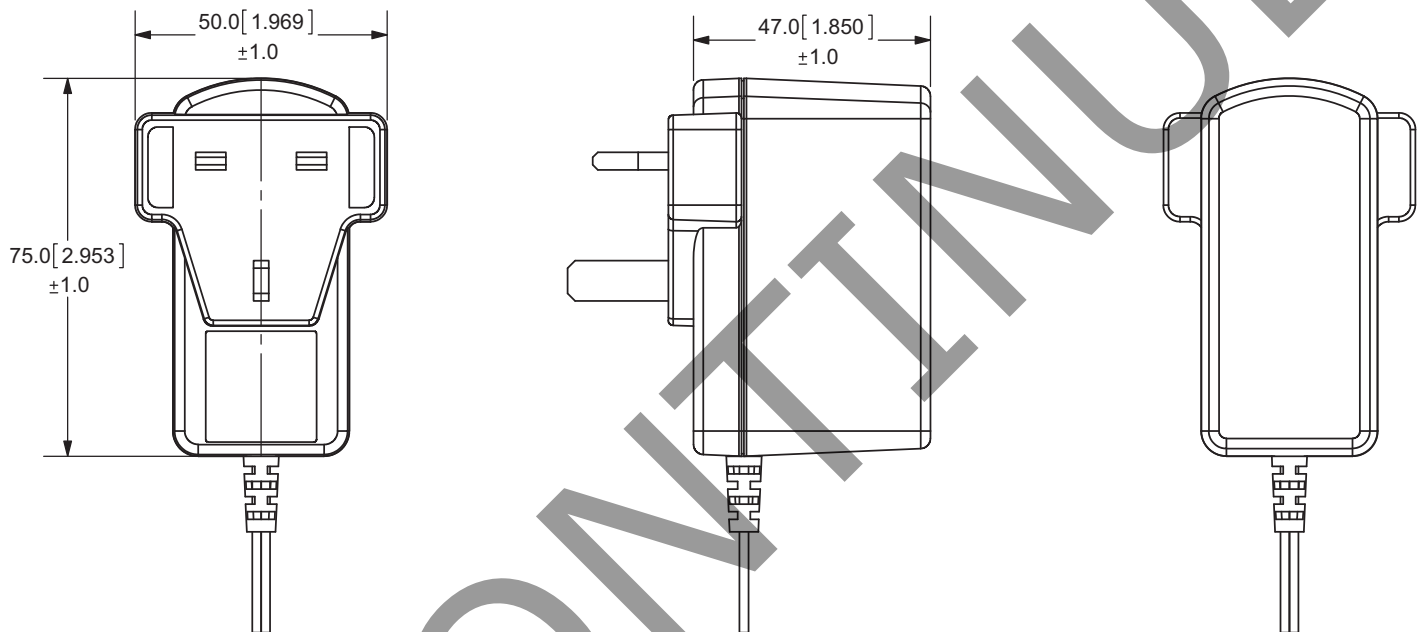
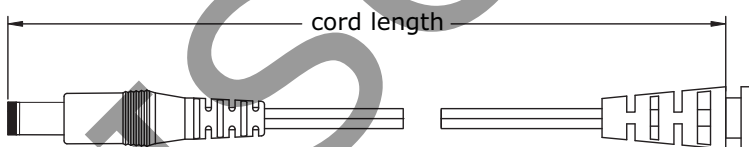
| parameter | conditions/description | min | nom | max | units |
|-----------------------|------------------------|-----|-----|-----|-------|
| operating temperature | | 0 | | 40 | °C |
| storage temperature | | -25 | | 85 | °C |
| operating humidity | | 10 | | 95 | % |
| storage humidity | | 10 | | 95 | % |

MECHANICAL

| parameter | conditions/description | min | typ | max | units |
|------------|---|-----|-----|-----|-------|
| dimensions | 2.953 x 1.969 x 1.850 (75 x 50 x 47 mm) | | | | inch |
| input plug | fixed UK | | | | |

MECHANICAL DRAWING

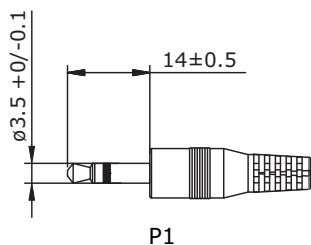
units: mm[inch]

**DC CORD**

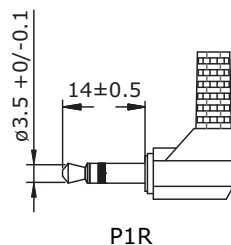
| MODEL NO. | CABLE GAUGE | CORD LENGTH |
|--------------|-------------|------------------|
| EPSA050250UB | 18 AWG | 1,500 mm ±30 |
| EPSA120100UB | 22 AWG | 1,500 mm +50/-30 |

OUTPUT PLUG OPTIONS

3.5 mm Phono Plug



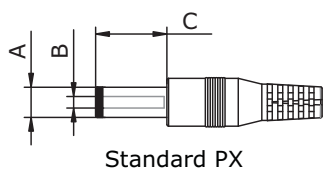
P1



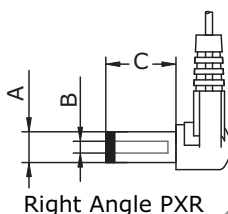
P1R

*Tip positive

Standard DC Plug



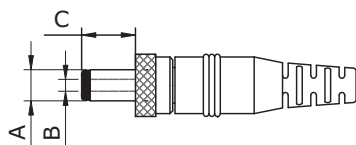
Standard PX



Right Angle PXR

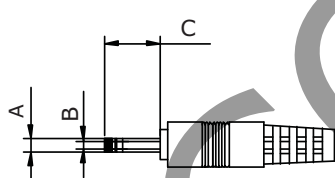
| | A | B | C | Unit |
|--------|-----|------|-----|------|
| P5/P5R | 5.5 | 2.1 | 9.5 | mm |
| P6/P6R | 5.5 | 2.5 | 9.5 | mm |
| P7/P7R | 3.5 | 1.35 | 9.5 | mm |
| P8/P8R | 3.8 | 1.35 | 9.5 | mm |
| P9/P9R | 3.8 | 1.05 | 9.5 | mm |

Locking DC Plug

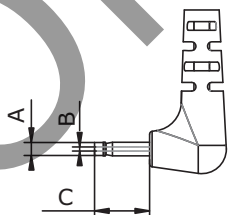


| | A | B | C | Unit |
|-----|-----|-----|-----|------|
| P10 | 5.5 | 2.1 | 9.5 | mm |
| P11 | 5.5 | 2.5 | 9.5 | mm |

EIAJ Plugs

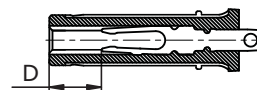


Standard PXX

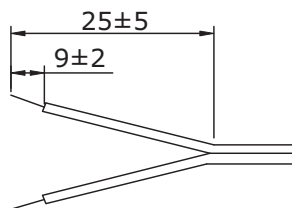


Right Angle PXXR

| | 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

PXXX

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.

REVISION HISTORY

| rev. | description | date |
|------|--|------------|
| 1.0 | initial release | 03/08/2010 |
| 1.01 | updated output plug options | 11/11/2010 |
| 1.02 | new template applied | 01/24/2012 |
| 1.03 | V-Infinity branding removed, P7/P7R B dimension updated, safety and EMI/EMC data updated | 08/21/2012 |

The revision history provided is for informational purposes only and is believed to be accurate.



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