Excellent Integrated System Limited

Stocking Distributor

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CUI Inc. EPSA120050UW-P5P-SZ

For any questions, you can email us directly: sales@integrated-circuit.com



Datasheet of EPSA120050UW-P5P-SZ - AC/DC WALL MOUNT ADAPTER 12V 6W

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electronic components

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200

200

6

6



05/28/2013

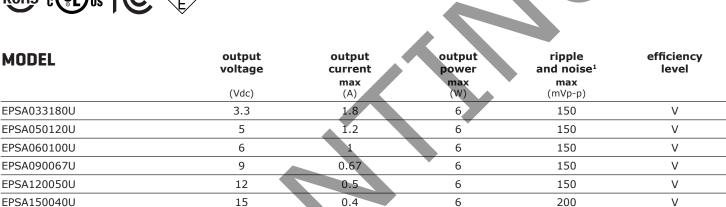
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SERIES: EPSA 6W | **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

- up to 6 W power
- universal input (90~264 Vac)
- single regulated output from 3.3~24 V
- over voltage, over current, and short circuit protections
- UL/cUL safety approvals
- level V efficiency
- custom designs available





0.33

0.25

1. At full load, $100 \sim 240$ Vac input, 20 MHz bandwidth oscilloscope, output terminated with $0.1~\mu F$ and $47~\mu F$ capacitors.

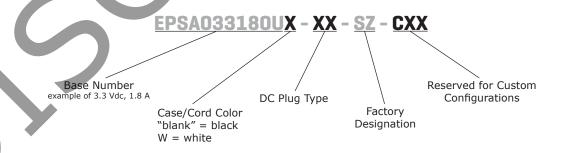
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24

PART NUMBER KEY

EPSA180033U

EPSA240025U





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| INP | U. | |
|-----|----|--|
|-----|----|--|

| parameter | conditions/description | min | typ | max | units |
|----------------------|------------------------|-----|-----|-----|-------|
| voltage | | 90 | | 264 | Vac |
| frequency | | 47 | | 63 | Hz |
| current | | | | 0.3 | A RMS |
| leakage current | | | | 0.1 | mA |
| no load power consum | ption | | | 0.3 | W |

OUTPUT

| parameter | conditions/description | min | typ | max units |
|-----------------|-------------------------------|-----|-----------|-----------|
| line regulation | | | ±3 | % |
| load regulation | 3.3 V output all other models | | ±10 ±5 | % % |

PROTECTIONS

| parameter | conditions/description | • | min ty | p max | units |
|--------------------------|--------------------------------------|---|--------|-------|-------|
| over voltage protection | protected through primary circuit IC | | | | |
| short circuit protection | output shut down and auto restart | | | | |

SAFETY & COMPLIANCE

| parameter | conditions/description | min | typ | max | units |
|----------------------|---------------------------------------|-----|-----|----------------|------------|
| isolation voltage | input to output at 10 mA for 1 minute | | | 3,000 4,242 | Vac Vdc |
| isolation resistance | input to output at 500 Vdc | 100 | | | ΜΩ |
| safety approvals | UL/cUL, PSE, LPS | | | | |
| EMI/EMC | FCC | | | | |
| RoHS compliant | ves | | | | |

ENVIRONMENTAL

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

MECHANICAL

| parameter | conditions/description | min | typ | max | units |
|-----------------|---|-----|-----|-----|-------|
| dimensions | 59.8 x 46.1 x 26.6 (2.354 x 1.815 x 1.047 inch) | | | | mm |
| weight | | | | 63 | g |
| input plug | fixed US | | | | |
| case/cord color | black or white | | | | |



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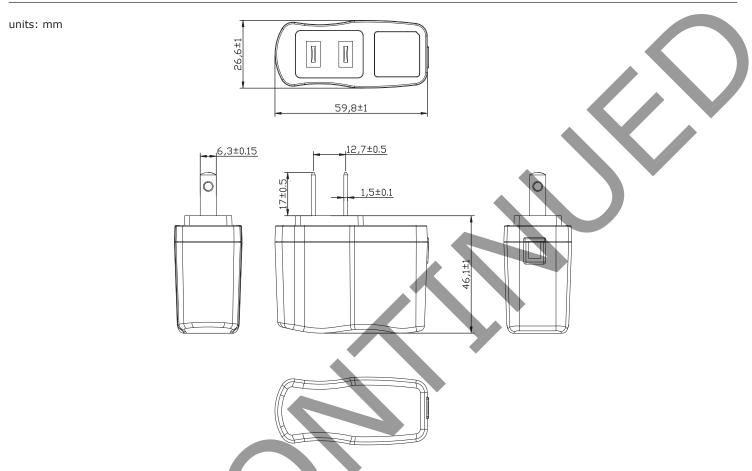
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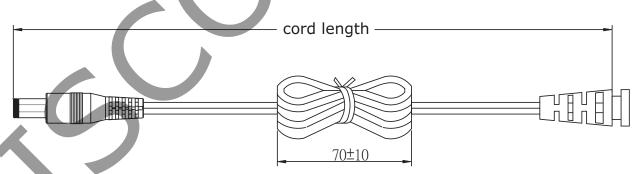
CUI Inc | SERIES: EPSA 6W | DESCRIPTION: AC-DC POWER SUPPLY

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MECHANICAL DRAWING



DC CORD



| MODEL NO. | CABLE GAUGE | CORD LENGTH |
|-------------|-------------|---------------|
| EPSA033180U | 20 AWG | 1,000 mm ±100 |
| EPSA050120U | 22 AWG | 1,530 mm ±100 |
| EPSA060100U | 22 AWG | 1,530 mm ±100 |
| EPSA090067U | 22 AWG | 1,530 mm ±100 |
| EPSA120050U | 24 AWG | 1,530 mm ±100 |
| EPSA150040U | 24 AWG | 1,530 mm ±100 |
| EPSA180033U | 24 AWG | 1,530 mm ±100 |
| EPSA240025U | 24 AWG | 1,530 mm ±100 |

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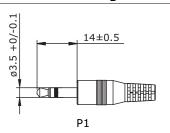
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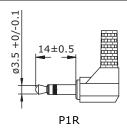
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OUTPUT PLUG OPTIONS

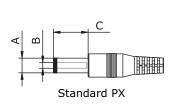
3.5 mm Phono Plug

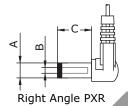




*Tip positive

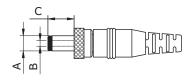
Standard DC Plug





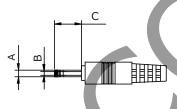
| | А | В | С | Unit |
|--------|-----|------|-----|------|
| P5/P5R | 5.5 | 2.1 | 9.5 | mm |
| P6/P6R | 5.5 | 2.5 | 9.5 | mm |
| P7/P7R | 3.5 | 1.35 | 9.5 | mm |
| P8/P8R | 3.8 | 1.35 | 9.5 | mm |
| P9/P9R | 3.8 | 1.05 | 9.5 | mm |

Locking DC Plug

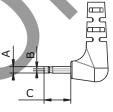


| | А | В | С | Unit |
|-----|-----|-----|-----|------|
| P10 | 5.5 | 2.1 | 9.5 | mm |
| P11 | 5.5 | 2.5 | 9.5 | mm |

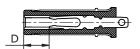
EIAJ Plugs



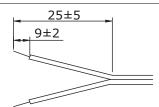
Standard PXX



| | EIAJ | Α | В | С | 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





"Blank" = Standard R = Right Angle

Plug Polarity:
"Blank" = N/A
P = Center Positive

*Contact CUI for additional output plug options.

N = Center Negative



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REVISION HISTORY

| rev. | description | date |
|------|--------------------------|------------|
| 1.0 | initial release | 10/24/2012 |
| 1.01 | added black color option | 05/28/2013 |

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



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Fax 503.612.2383 cui.com techsupport@cui.com

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

CUI offers a one (1) year limited warranty. Complete warranty information is listed on our website.

CUI reserves the right to make changes to the product at any time without notice. Information provided by CUI is believed to be accurate and reliable. However, no responsibility is assumed by CUI for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

CUI products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.