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SERIES: ETSA 60W UD **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

- 60 W power
- universal input (90~264 Vac)
- single regulated output from 12~48V
- over voltage and short circuit protections
- UL/cUL and TUV safety approvals
- level V efficiency
- custom designs available

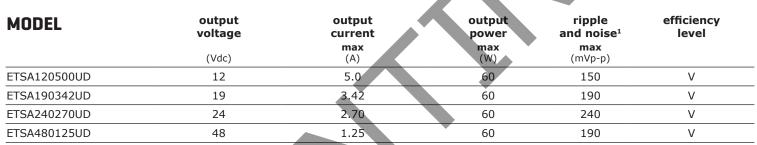






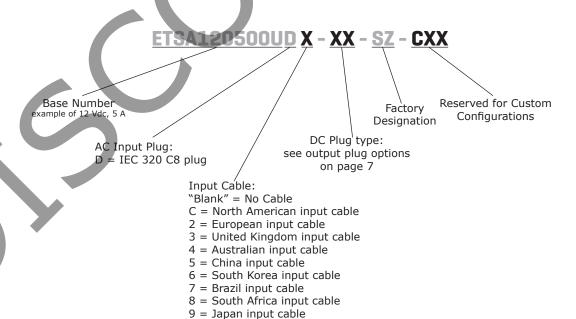






1. At full load, 100 ~ 240 Vac input, 20 MHz bandwidth oscilloscope, each output terminated with 10 µF aluminum electrolytic and 0.1 µF ceramic capacitors.

PART NUMBER KEY



INPUT

| parameter | conditions/description | min | typ | max | units |
|---------------------------|--------------------------------|-----|-----|------------|--------|
| voltage | | 90 | | 264 | Vac |
| frequency | | 47 | | 63 | Hz |
| inrush current | 12 V model all other models | | | 1.4 1.5 | A A |
| leakage current | | | | 0.25 | mA |
| no load power consumption | 12 V model all other models | | | 0.5 0.3 | W |

OUTPUT

| parameter | conditions/description | min | typ | max | units |
|-----------------|------------------------|-----|-----|-----|-------|
| line regulation | | | ±1 | | % |
| load regulation | | | ±5 | 7 | % |

PROTECTIONS

| parameter | conditions/description | - 1 | min | typ | max | units |
|--------------------------|-----------------------------------|-----|-----|-----|----------|------------|
| over voltage protection | 24 V model 19, 48 V models | | | > | 36 32 | Vdc Vdc |
| 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 V dc | 100 | | | MΩ |
| safety approvals | UL/cUL (UL 60950-1), CE, EN 60950-1/IEC 609 | 50-1 | | | |
| EMI/EMC | FCC part 15, subpart b, class B; CE; CISPR 22, 55024; EN 61000-(2, 3); IEC 61000-4-(2, 3, 4, | | 3; VCCI; EN | 61204-3; EN 5 | 55022; EN |
| RoHS | 2011/65/EU | | | | |

ENVIRONMENTAL

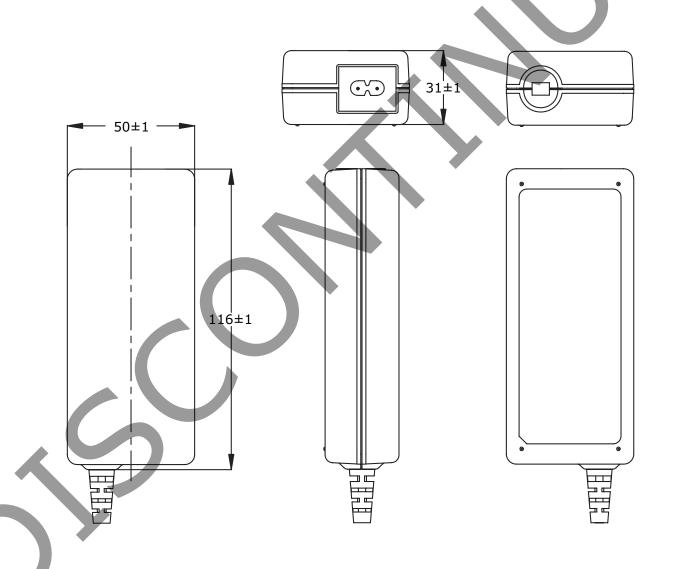
| parameter | conditions/description | min | typ | max | units |
|-----------------------|------------------------|-----|-----|-----|-------|
| operating temperature | | 0 | | 40 | °C |
| storage temperature | | -10 | | 70 | °C |
| operating humidity | | 20 | | 80 | % |
| storage humidity | | 10 | |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

MECHANICAL

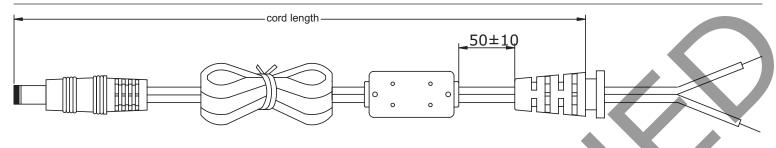
| parameter | conditions/description | min | typ | max | units |
|------------|--|-----|-----|-----|-------|
| dimensions | 4.567 x 1.969 x 1.220 (116 x 50 x 31 mm) | | | | inch |
| input plug | IEC320 / C8 | | | | |

MECHANICAL DRAWING

units: mm tolerance: ±1mm



DC CORD



| MODEL NO. | CABLE GAUGE | CORD LENGTH |
|--------------|-------------|---------------|
| ETSA120500UD | 16 AWG | 1,000 ±100 |
| ETSA190342UD | 18 AWG | 1,830 +150/-0 |
| ETSA240270UD | 18 AWG | 1,530 ±100 |
| ETSA480125UD | 18 AWG | 1,830 +150/-0 |

AC CORD

NORTH AMERICAN INPUT CABLE

units: mm

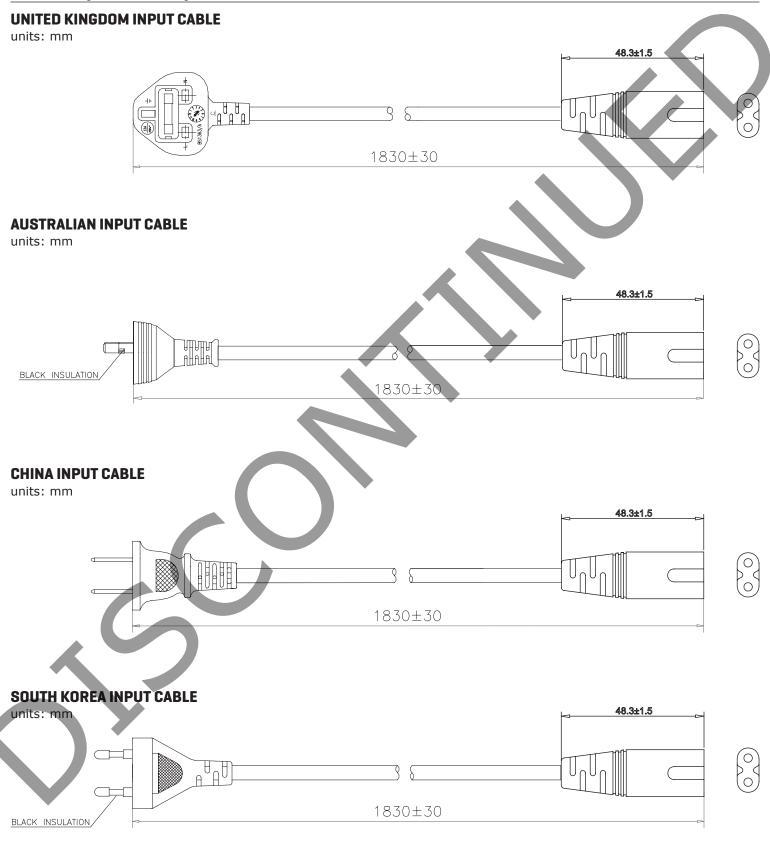


EUROPEAN INPUT CABLE

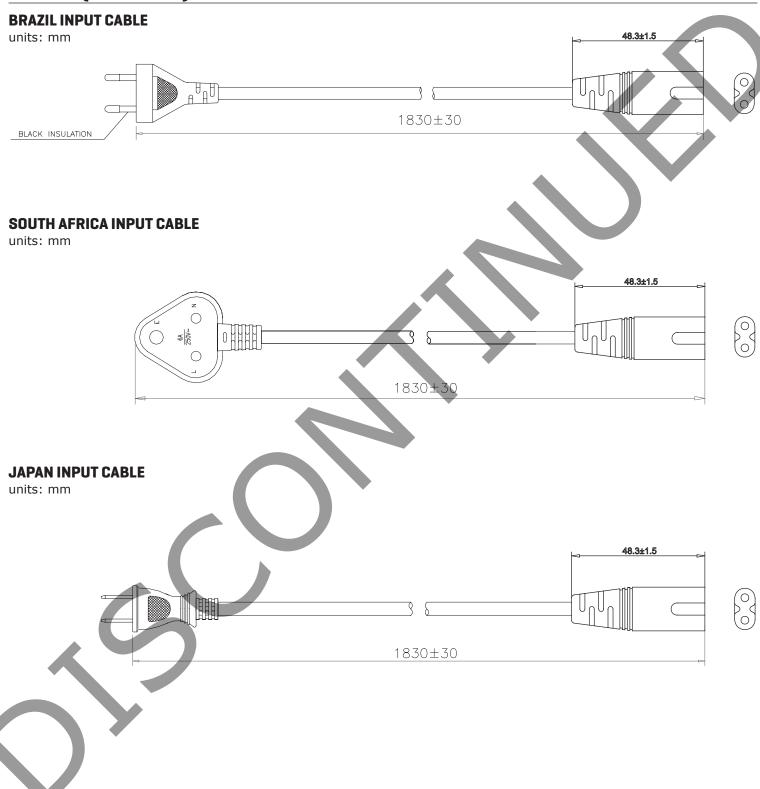
units: mm



AC CORD (CONTINUED)

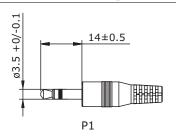


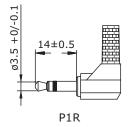
AC CORD (CONTINUED)



OUTPUT PLUG OPTIONS

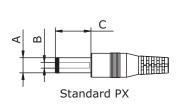
3.5 mm Phono Plug

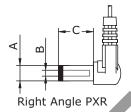




*Tip positive

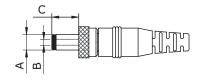
Standard DC Plug





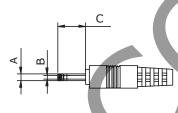
| | А | В | C | Unit |
|--------|-----|------|-----|------|
| P5/P5R | 5.5 | 2.1 | 9.5 | mm |
| P6/P6R | 5.5 | 2.5 | 9.5 | mm |
| P7/P7R | 3.5 | 1.35 | 9.5 | mm |
| P8/P8R | 3.8 | 1.35 | 9.5 | mm |
| P9/P9R | 3.8 | 1.05 | 9.5 | mm |

Locking DC Plug

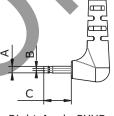


| | Α | В | С | Unit |
|-----|-----|-----|-----|------|
| P10 | 5.5 | 2.1 | 9.5 | mm |
| P11 | 5.5 | 2.5 | 9.5 | mm |

EIAJ Plugs

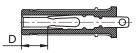




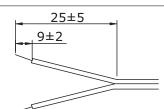


| | - | |
|-------|-------|------|
| Right | Angle | PXXR |

| | 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

Plug Type: PXX = See above plug options ST = Stripped and Tinned

Plug Angle: "blank" = Straight R = Right Angle

Plug Polarity: P = Center Positive

N = Center Negative

*Contact CUI for additional plug options

REVISION HISTORY

| rev. | description | date |
|------|--|------------|
| 1.0 | initial release | 01/24/2010 |
| 1.01 | new template applied | 12/22/2011 |
| 1.02 | P7/P7R B dimension updated, V-Infinity branding removed, safety and EMI/EMC data updated | 08/21/2012 |
| 1.03 | updated series/model numbers | 11/20/2012 |
| 1.04 | corrected dc cord lengths | 01/16/2013 |
| 1.05 | added ac cord options | 11/18/2014 |

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



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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.