



V-INFINITY
a division of CUI INC

date 11/2009

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SERIES: 12 W DESKTOP

DESCRIPTION: SWITCHING POWER SUPPLY

FEATURES

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



| MODEL | output voltage | | output current | | output wattage | ripple | efficiency level | cord length (mm) |
|----------------------|-------------------|--|----------------|------------|----------------|-----------------|------------------|---------------------|
| | nominal (V dc) | | min (A) | max (A) | max (W) | max. (mVp-p) | | |
| ETS050250SUDC-P5P-KH | 5 | | 0 | 2.5 | 12.5 | 240 | IV | 1830 ±150 |
| ETS060175SUDC-P5P-KH | 6 | | 0 | 1.75 | 10.5 | 240 | IV | 1830 ±150 |
| ETS090120SUDC-P5P-KH | 9 | | 0 | 1.2 | 10.8 | 240 | IV | 1830 ±150 |
| ETS120100SUDC-P5P-KH | 12 | | 0 | 1 | 12 | 240 | IV | 1830 ±150 |
| ETS150080SUDC-P5P-KH | 15 | | 0 | 0.8 | 12 | 240 | IV | 1830 ±150 |
| ETS180067SUDC-P5P-KH | 18 | | 0 | 0.67 | 12 | 240 | IV | 1830 ±150 |
| ETS240050SUDC-P5P-KH | 24 | | 0 | 0.5 | 12 | 240 | IV | 1830 ±150 |

*full load, 100~240 Vac input, measured at 20MHz bandwidth with a 22 uF electrolytic cap and a 0.1 uF ceramic cap on the output



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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 |
| rated input current | | | | 3.5 | A |
| inrush current | 230 V ac, full load, cold start, 25°C | | | 50 | A |
| no load power consumption | 100 ~ 240 V ac | | | 0.5 | W |

OUTPUT

| parameter | conditions/description | min | nom | max | units |
|--------------------------|-------------------------|------|-----|------|-------|
| line regulation | | | ±2 | | % |
| load regulation | | | ±5 | | % |
| over voltage protection | output shut down | 120% | | 180% | V dc |
| short circuit protection | auto recovery | | | | |
| over current protection | foldback, auto recovery | | | | |

SAFETY & EMI

| parameter | conditions/description | min | nom | max | units |
|-----------------------|--|-----|-----|--------------|--------------|
| HI-POT | input to output at 4 mA for 2 second input to case at 4 mA for 2 second | | | 3000 3000 | V ac V ac |
| insulation resistance | input to output at 500 V dc | 50 | | | MΩ |
| safety approvals | UL/cUL, CB (IEC60950-1), CE (GS/TUV EN60950-1) | | | | |
| EMI standard | FCC part 15 class B, CE (EN55022, EN61204-3) | | | | |
| RoHS compliant | yes | | | | |
| LPS power supply | yes | | | | |

ENVIRONMENTAL

| parameter | conditions/description | min | nom | max | units |
|-----------------------|------------------------|-----|-----|-----|-------|
| operating temperature | | 0 | | 40 | °C |
| operating humidity | | 10 | | 95 | % |
| storage temperature | | -20 | | 70 | °C |
| storage humidity | | 10 | | 95 | % |

RELIABILITY

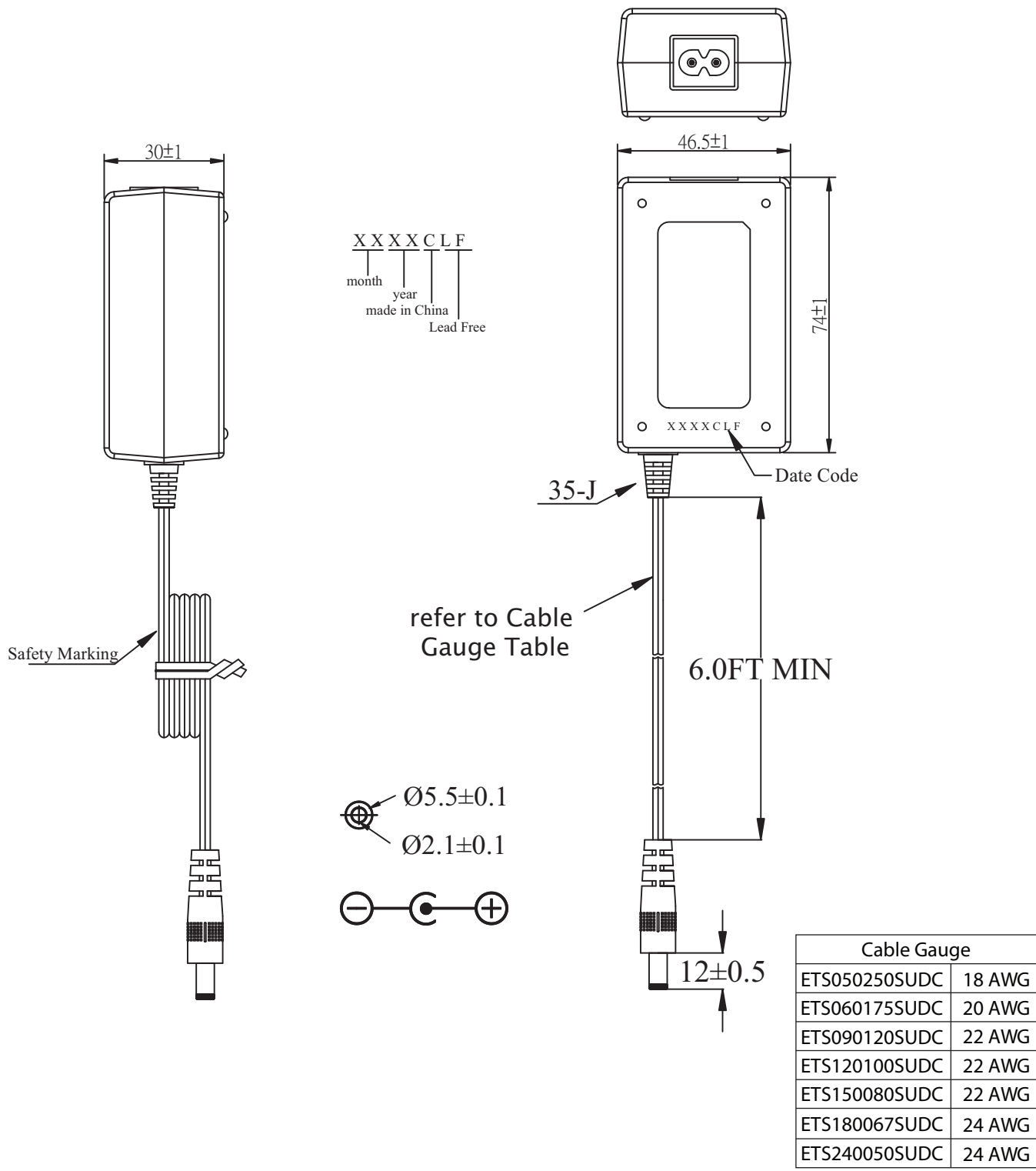
| parameter | conditions/description | min | nom | max | units |
|-----------|------------------------|-----|-----|-----|-------|
| MTBF | 50000 hours | | | 25 | °C |
| burn-in | 2 hours | | | 40 | °C |



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MECHANICAL DRAWING





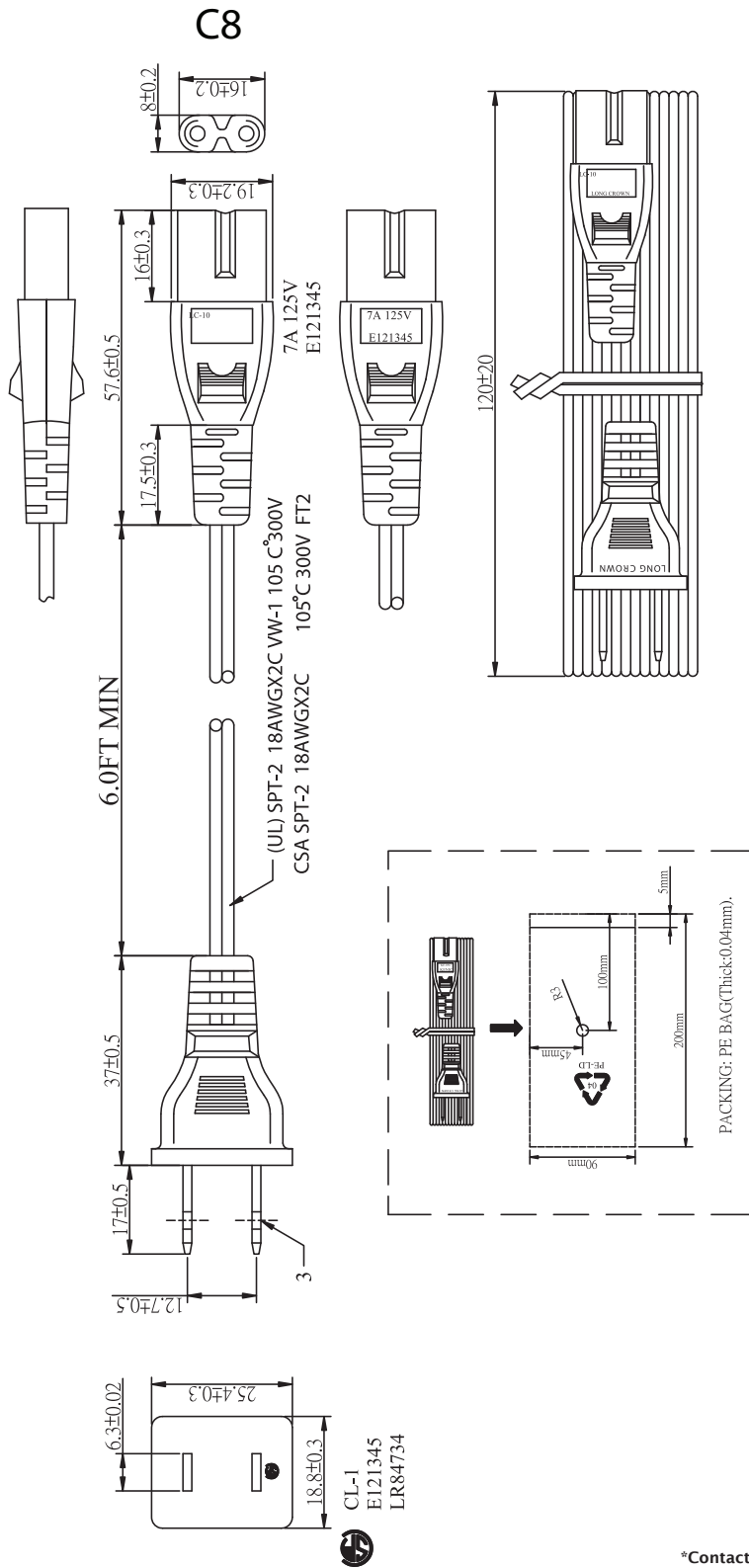
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AC CORD



*Contact CUI for additional ac cord input blade options.



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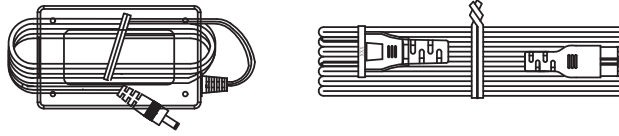
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INDIVIDUAL PACKAGING

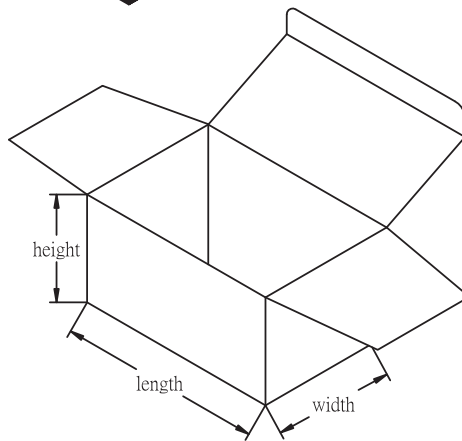


BOX

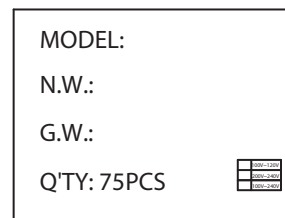
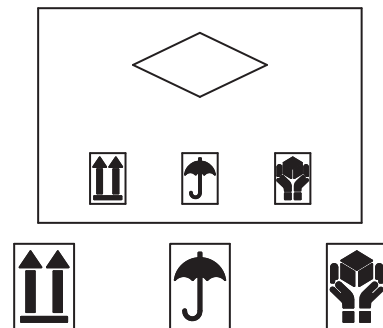
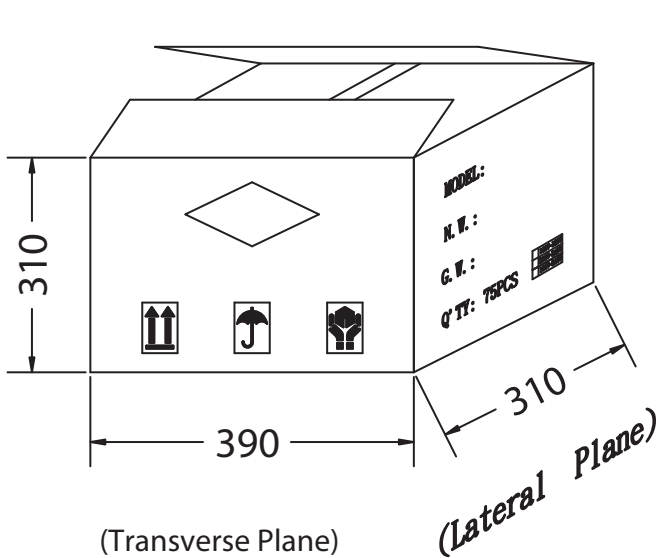
Length: 128

Width: 60

Height: 60



PACKAGING



| | |
|--|-----------|
| | 100V~120V |
| | 200V~240V |
| | 100V~240V |