



SERIES: 20 W DESKTOP

DESCRIPTION: SWITCHING POWER SUPPLY

FEATURES

- universal AC input
- regulated output voltage
- short circuit, over load protection
- LED indicator for power on
- 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) | | |
| ETS050400U | 5 | | 0 | 4 | 20 | 150 | IV | 1000 +150/-0 |
| ETS060330U | 6 | | 0 | 3.3 | 19.8 | 150 | IV | 1000 +150/-0 |
| ETS090220U | 9 | | 0 | 2.2 | 19.8 | 150 | V | 1830 +150/-0 |
| ETS120200U | 12 | | 0 | 2 | 24 | 150 | V | 1830 +150/-0 |
| ETS150133U | 15 | | 0 | 1.33 | 20 | 150 | V | 1830 +150/-0 |
| ETS180110U | 18 | | 0 | 1.1 | 19.8 | 150 | V | 1830 +150/-0 |
| ETS240100U | 24 | | 0 | 1 | 24 | 150 | V | 1830 +150/-0 |

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

PART NUMBER KEY

ETS050400U T C - XX - SZ - CXX

Base Number
example of 5 V dc, 4.0 A

AC Input Plug:
blank = IEC 320 C14 plug
T = IEC 320 C6 plug

Input Cable:
C = included
blank = no cable

DC Plug type:
see output plug options
on page 5

Factory Designation

Reserved for custom orders



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INPUT

| parameter | conditions/description | min | nom | max | units |
|---------------------------|--|-----|-----|----------|--------|
| rated input voltage | | 100 | | 240 | V ac |
| input voltage range | | 90 | | 255 | V ac |
| rated frequency | | 50 | | 60 | Hz |
| frequency range | | 47 | | 63 | Hz |
| rated input current | | | | 0.8 | A |
| inrush current | 115 V ac, full load, cold start, 25°C 230 V ac, full load, cold start, 25°C | | | 30 50 | A A |
| no load power consumption | 110 ~ 240 V ac | | | 0.5 | W |

OUTPUT

| parameter | conditions/description | min | nom | max | units |
|--------------------------|-----------------------------------|------|-----|------|-------|
| line regulation | | | ±1 | | % |
| load regulation | | | ±5 | | % |
| over voltage protection | output shut down | 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 second | | | 1500 2121 | V ac V dc |
| insulation resistance | input to output at 500 V dc | 100 | | | MΩ |
| safety approvals | UL/cUL, CB (IEC60950-1), CE (GS/TUV EN60950-1) | | | | |
| EMI standard | FCC part 15 class B, CE (EN55022, EN55024) | | | | |
| leakage current | | | | 3.5 | 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 | % |

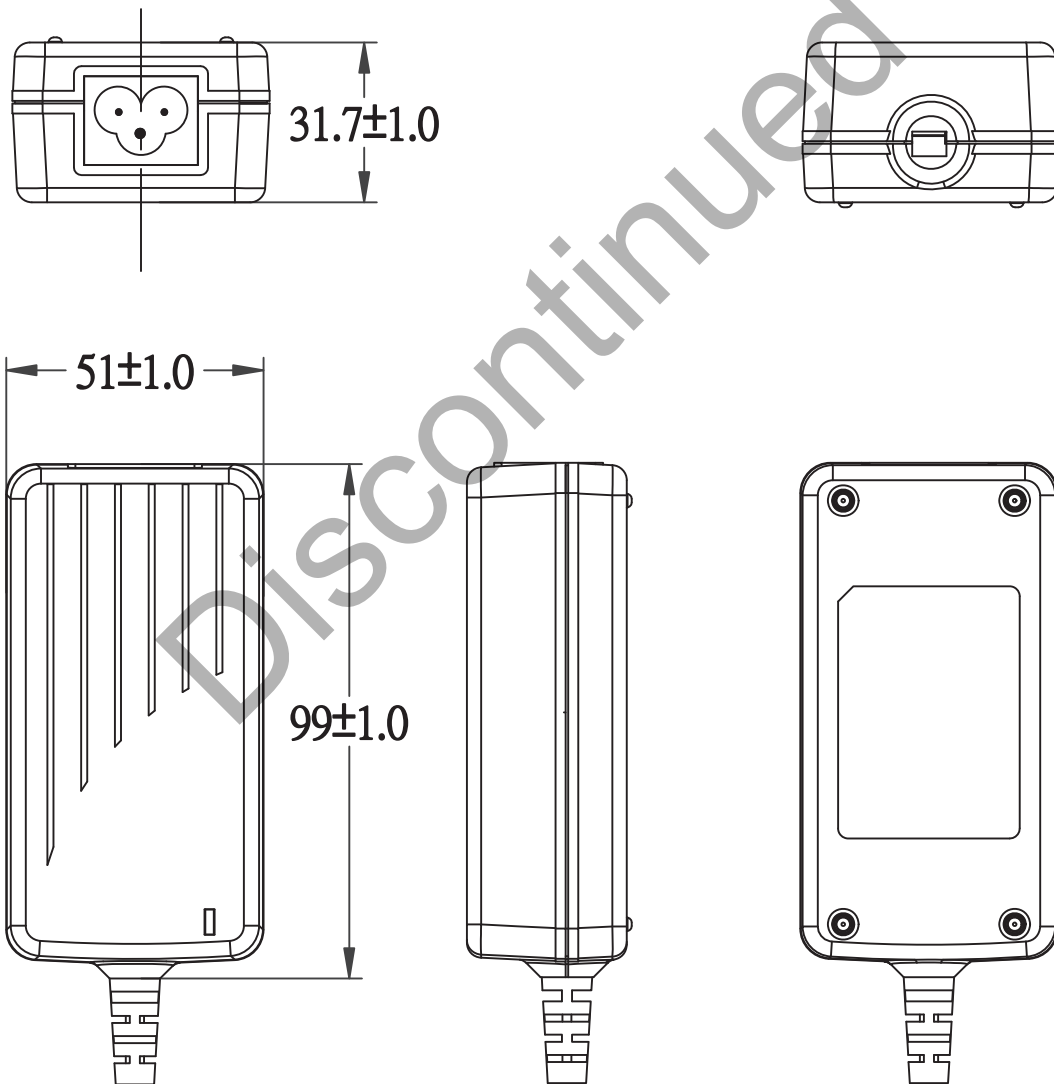


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MECHANICAL DRAWING

case size 99 L x 51 W x 31.7 H mm
tolerance: ± 1 mm

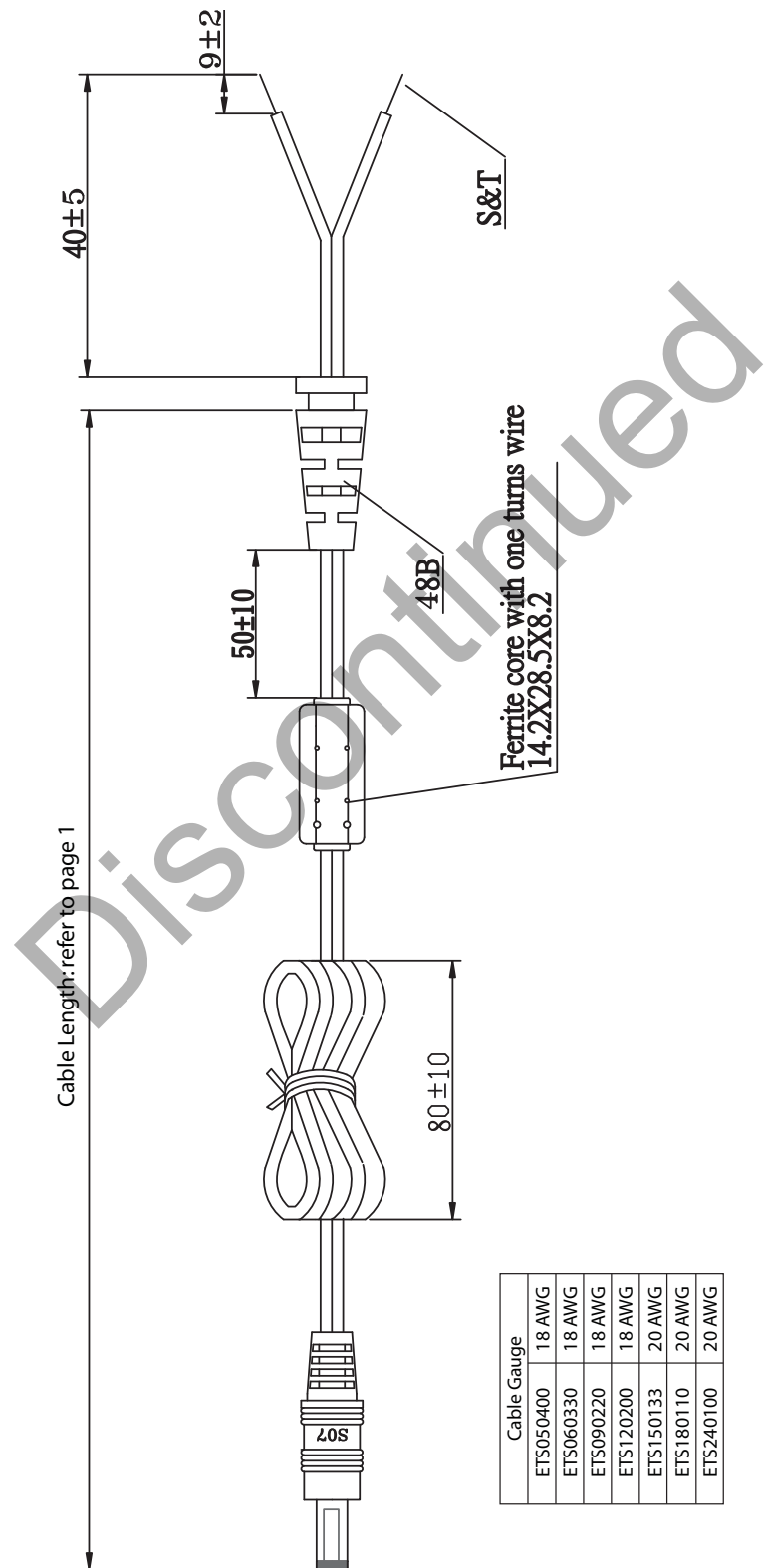




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DC CORD



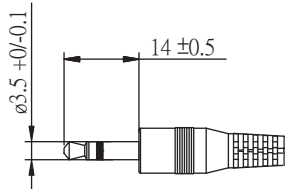


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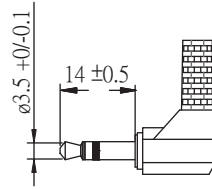
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OUTPUT PLUG OPTIONS

3.5 mm Phono Plug



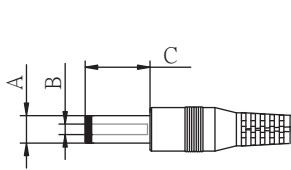
P1



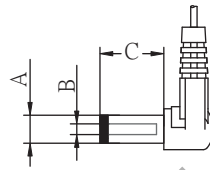
P1R

*Tip positive

Standard DC Plug



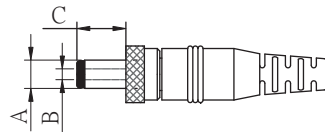
Standard PX



Right Angle PXR

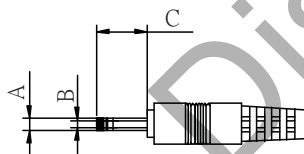
| | A | B | C | Unit |
|--------|-----|------|-----|------|
| P5/P5R | 5.5 | 2.1 | 9.5 | mm |
| P6/P6R | 5.5 | 2.5 | 9.5 | mm |
| P7/P7R | 3.5 | 1.3 | 9.5 | mm |
| P8/P8R | 3.8 | 1.35 | 9.5 | mm |
| P9/P9R | 3.8 | 1.05 | 9.5 | mm |

Locking DC Plug

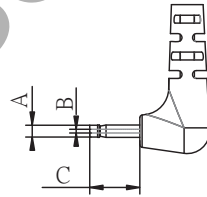


| | A | B | C | Unit |
|-----|-----|-----|-----|------|
| P10 | 5.5 | 2.1 | 9.5 | mm |
| P11 | 5.5 | 2.5 | 9.5 | mm |

EIAJ Plugs

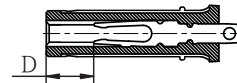


Standard PXX

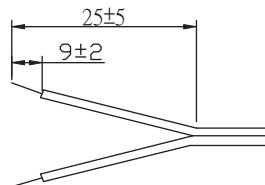


Right Angle PXXR

| | 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.



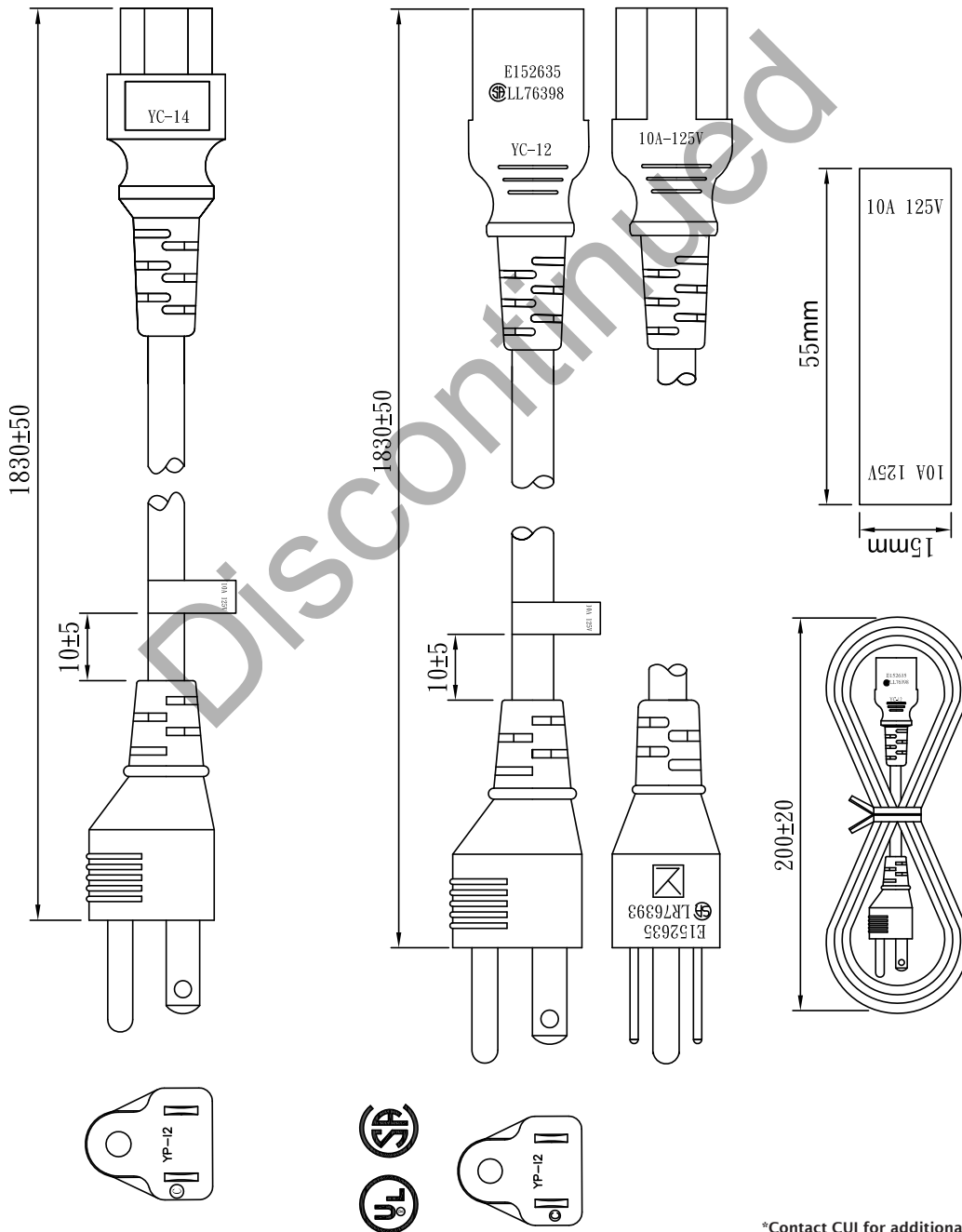
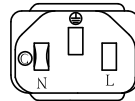
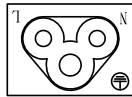
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AC CORD

C6

C14



*Contact CUI for additional ac cord input blade options.

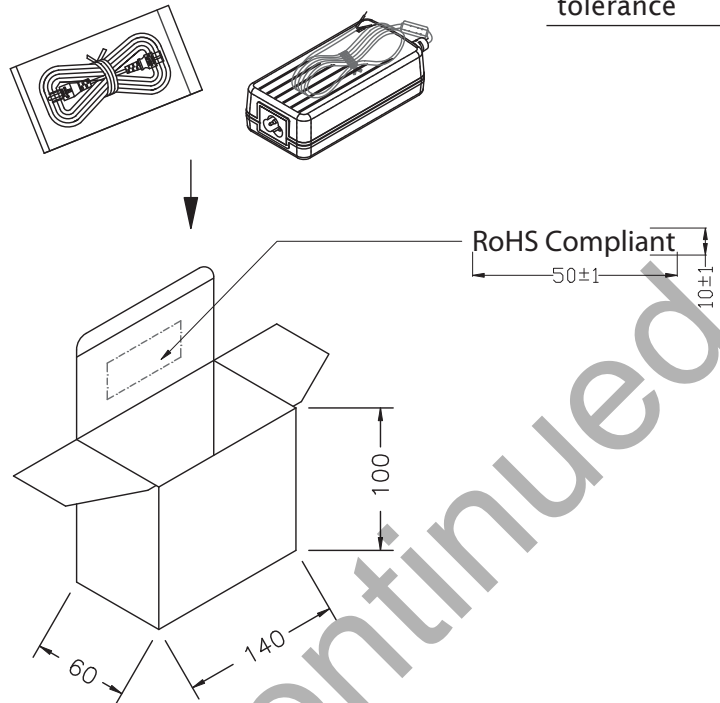


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INDIVIDUAL PACKAGING

| | |
|-----------|------------|
| tolerance | ± 1 mm |
|-----------|------------|



PACKAGING

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

CARTON SIZE: 445X327X235

Q'TY: 30pcs(15X2)

