



SERIES: 12W WALL PLUG

DESCRIPTION: SWITCHING POWER SUPPLY

FEATURES

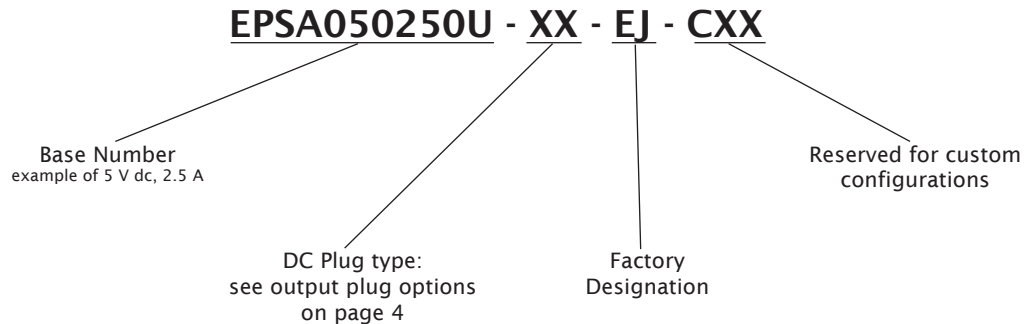
- universal AC input
- regulated output voltage
- short circuit, over load protection
- meets EISA / efficiency level V regulations
- custom designs available



| 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) | | |
| EPSA050250U | 5 | | 0 | 2.5 | 12 | 50 | V | 1500 ±30 |
| EPSA060200U | 6 | | 0 | 2 | 12 | 60 | V | 1500 ±30 |
| EPSA090130U | 9 | | 0 | 1.3 | 12 | 100 | V | 1500 +50/-30 |
| EPSA120100U | 12 | | 0 | 1 | 12 | 120 | V | 1500 +50/-30 |

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

PART NUMBER KEY





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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 | | | | 0.4 | A |
| inrush current | 115 V ac, cold start | | | 30 | A |

OUTPUT

| parameter | conditions/description | min | nom | max | units |
|--------------------------|--------------------------------|-----|-----|-----|-------|
| line regulation | | | ±5 | | % |
| load regulation | | | ±5 | | % |
| over voltage protection | output shut down | | | | |
| over current protection | | | | 200 | % |
| short circuit protection | yes | | | | |
| turn-on | | | | 2 | s |
| hold-up | 110 V ac, 50 Hz, 80% max. load | 10 | | | ms |

SAFETY & EMI

| parameter | conditions/description | min | nom | max | units |
|-----------------------|---|-----|-----|-------|-------|
| HI-POT | input to output at 10 mA for 2 seconds | | | 3,000 | V ac |
| insulation resistance | input to output at 500 V dc | 10 | | | MΩ |
| safety approvals | 5 and 12 V models: UL/cUL 6 V model meets: UL/cUL 9 V model: UL/cUL | | | | |
| EMI standard | FCC part 15B class B | | | | |
| leakage current | | | | 0.25 | mA |
| RoHS compliant | yes | | | | |

ENVIRONMENTAL

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

RELIABILITY

| parameter | conditions/description | min | nom | max | units |
|-----------|---|-----|-----|---------|-------|
| MTBF | at full load, 25 °C, Telcordia SR-332, Issue 2 | | | 300,000 | hours |
| burn-in | 100% burn-in at 40°C ±5°C, 80~100% of full load | | | | |

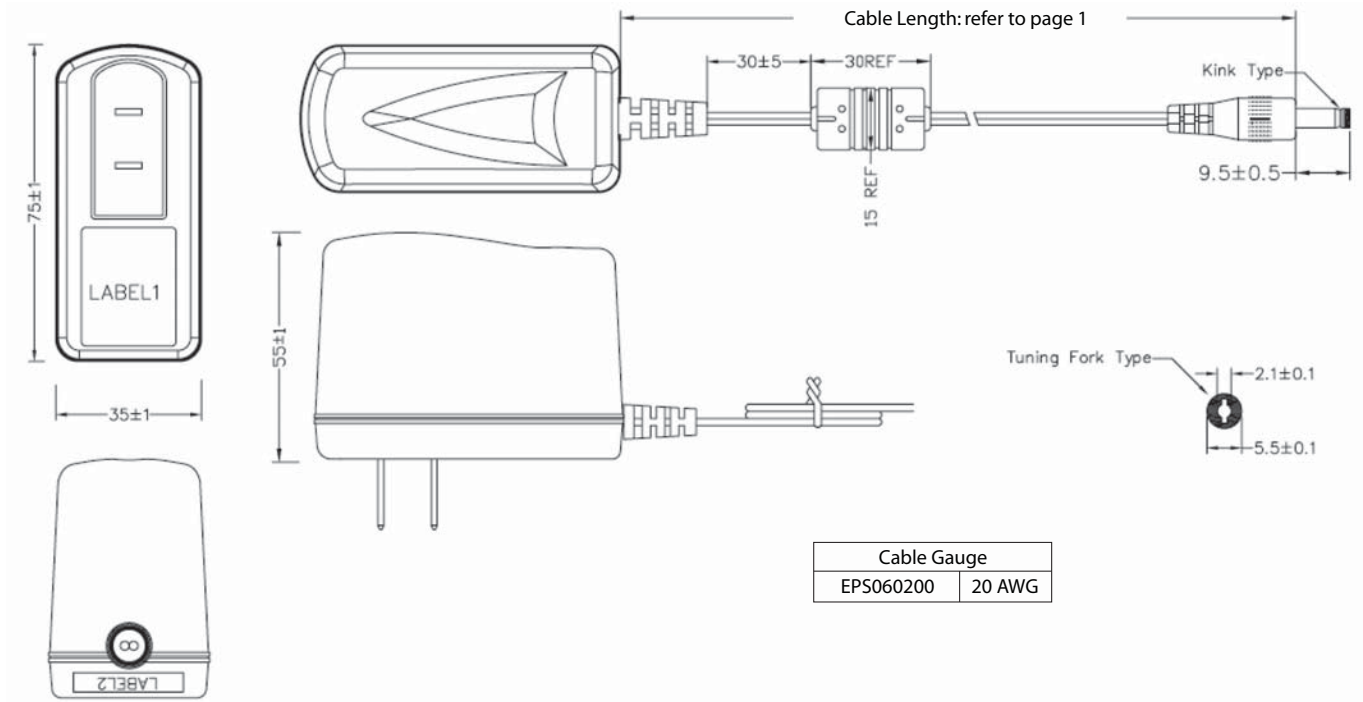


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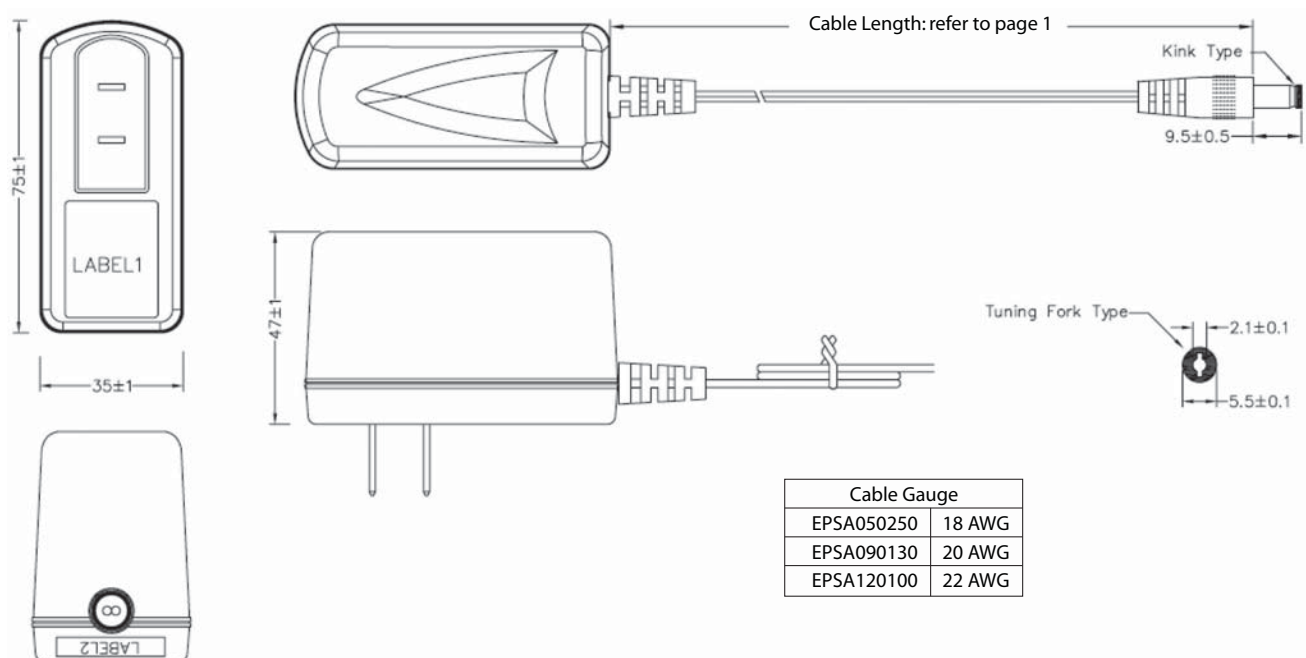
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MECHANICAL DRAWING

6 Volt model



All other models



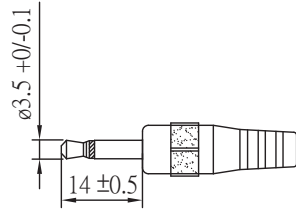


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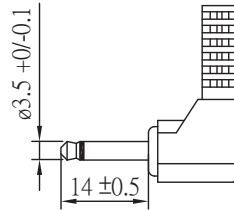
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OUTPUT PLUG OPTIONS

3.5 mm Phono Plug

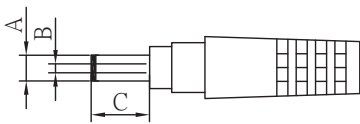


P1

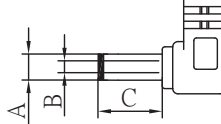


P1R

Standard DC Plug



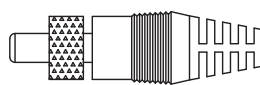
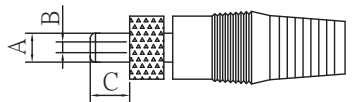
Standard PX



Right Angle PXR

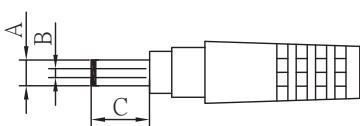
| | A | B | C | Unit |
|--------|-----|------|-----|------|
| P5/P5R | 5.5 | 2.1 | 9.5 | mm |
| P6/P6R | 5.5 | 2.5 | 9.5 | mm |
| P7/P7R | 3.5 | 1.3 | 9.5 | mm |
| P8/P8R | 3.8 | 1.35 | 9.5 | mm |
| P9/P9R | 3.8 | 1.05 | 9.5 | mm |

Locking DC Plug

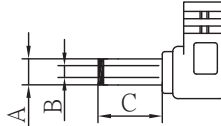


| | A | B | C | Unit |
|-----|-----|-----|-----|------|
| P10 | 5.5 | 2.1 | 9.5 | mm |
| P11 | 5.5 | 2.5 | 9.5 | mm |

EIAJ Plugs



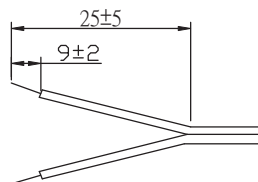
Standard PXX



Right Angle PXXR

| | EIAJ | A | B | C | Unit |
|----------|--------|------|-----|-----|------|
| P12/P12R | EIAJ-1 | 2.35 | 0.7 | 9.5 | mm |
| P13/P13R | EIAJ-2 | 4.0 | 1.7 | 9.5 | mm |
| P14/P14R | EIAJ-3 | 4.75 | 1.7 | 9.5 | 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.