



**SERIES: 12W WALL PLUG**

**DESCRIPTION: SWITCHING POWER SUPPLY**

**FEATURES**

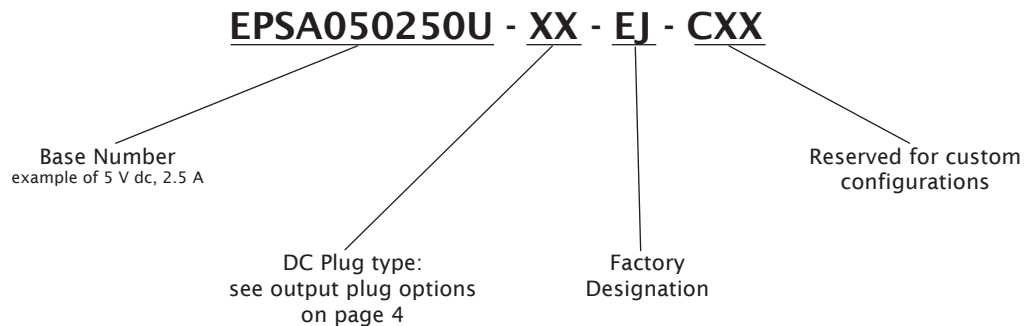
- universal AC input
- regulated output voltage
- short circuit, over load protection
- meets EISA / efficiency level V regulations
- custom designs available



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				

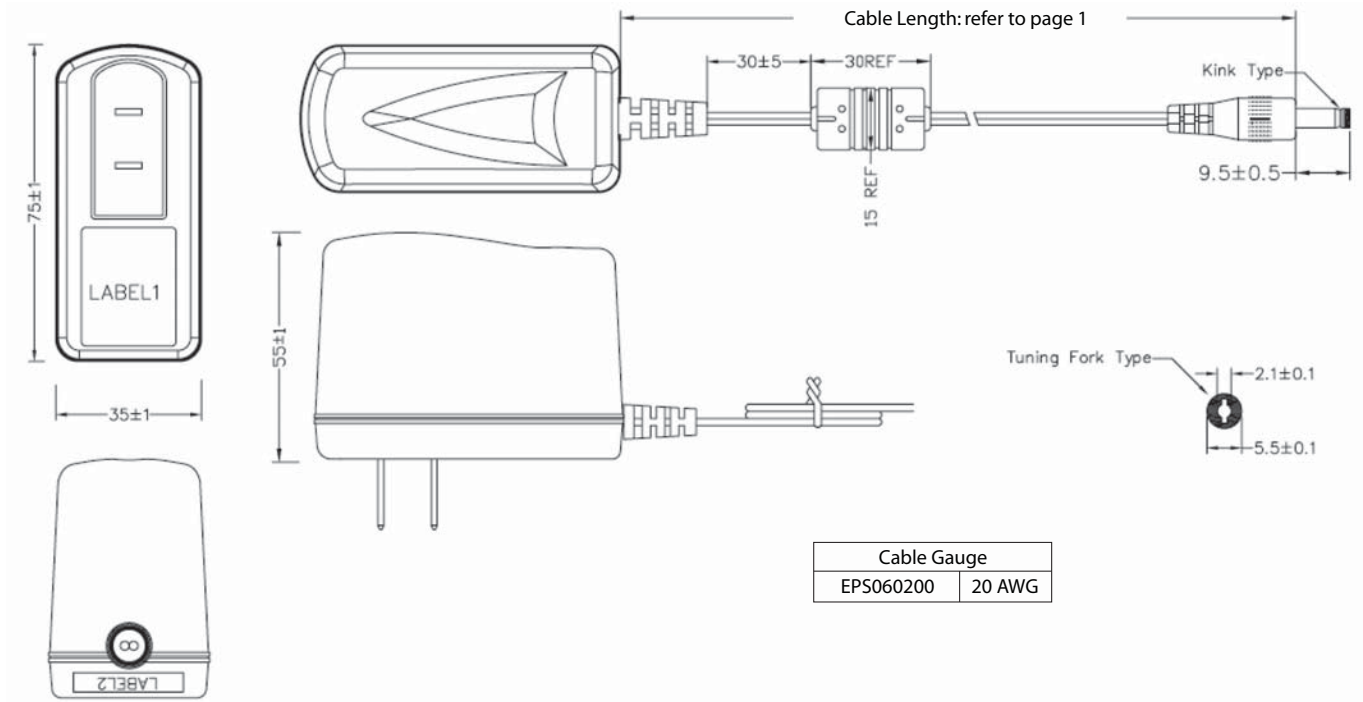


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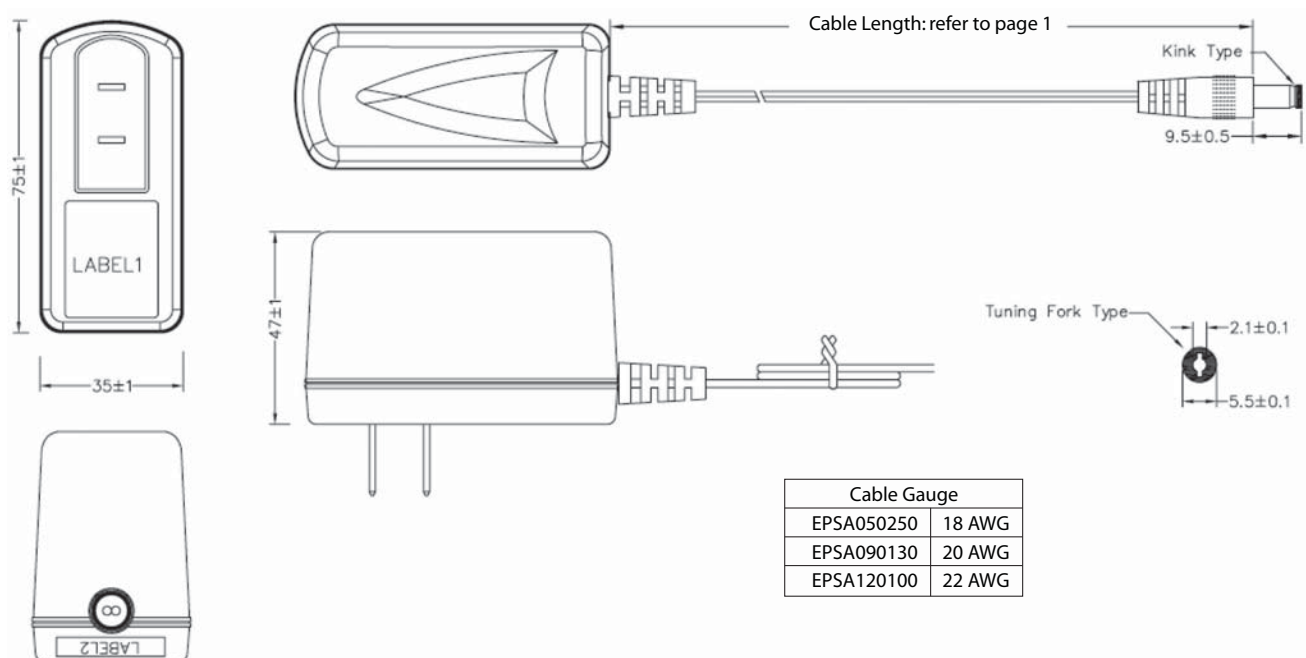
DESCRIPTION: SWITCHING POWER SUPPLY

MECHANICAL DRAWING

6 Volt model



All other models



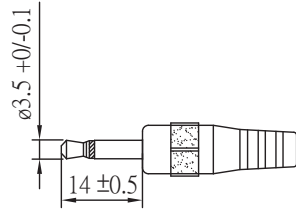


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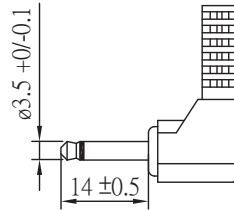
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**OUTPUT PLUG OPTIONS**

**3.5 mm Phono Plug**

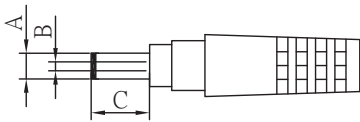


P1

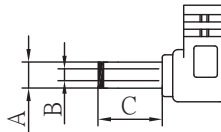


P1R

**Standard DC Plug**



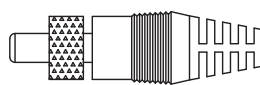
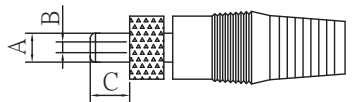
Standard PX



Right Angle PXR

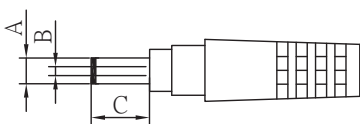
	A	B	C	Unit
P5/P5R	5.5	2.1	9.5	mm
P6/P6R	5.5	2.5	9.5	mm
P7/P7R	3.5	1.3	9.5	mm
P8/P8R	3.8	1.35	9.5	mm
P9/P9R	3.8	1.05	9.5	mm

**Locking DC Plug**

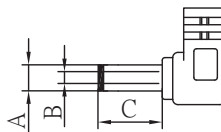


	A	B	C	Unit
P10	5.5	2.1	9.5	mm
P11	5.5	2.5	9.5	mm

**EIAJ Plugs**



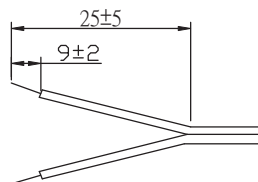
Standard PXX



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.