



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

MODEL	output voltage	output current		output wattage	ripple*	efficiency level	cord length
	nominal (V dc)	min (A)	max (A)	max (W)	max. (mVp-p)		(mm)
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

EPSA050250U - XX - EJ - CXX

Base Number
example of 5 V dc, 2.5 A

DC Plug type:
see output plug options
on page 4

Factory
Designation

Reserved for custom
configurations

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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				

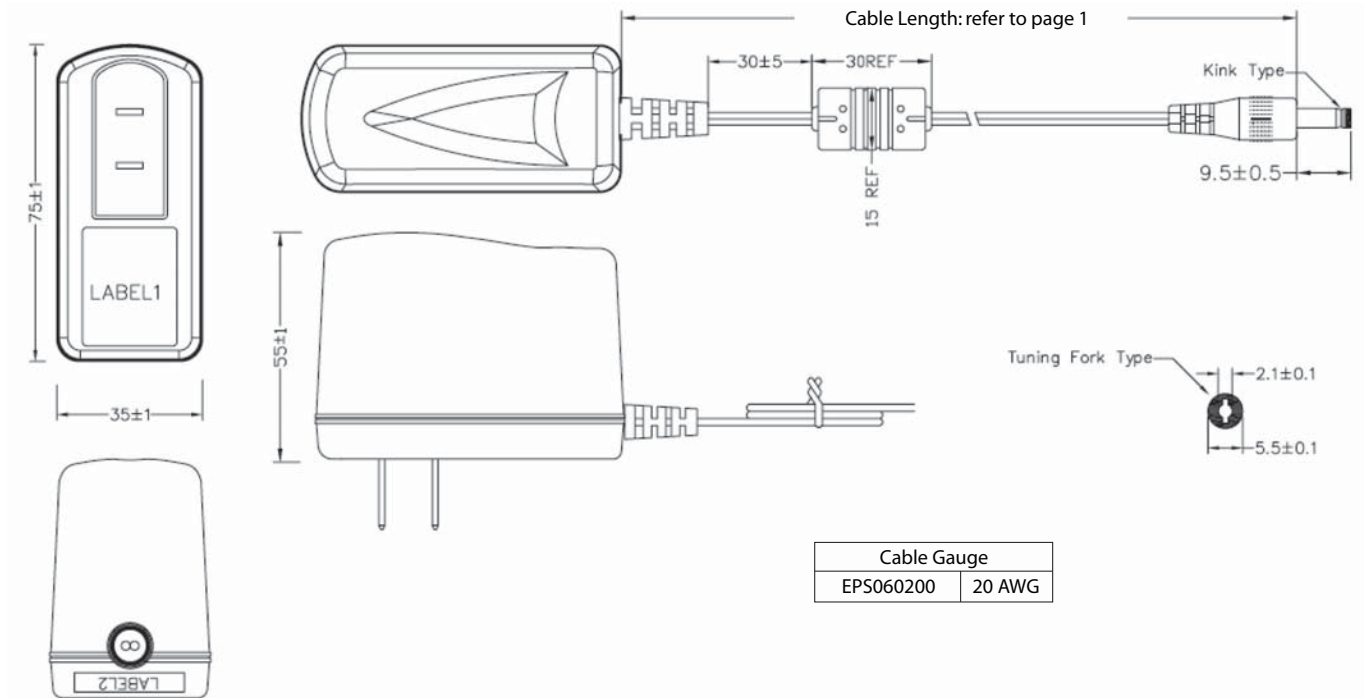


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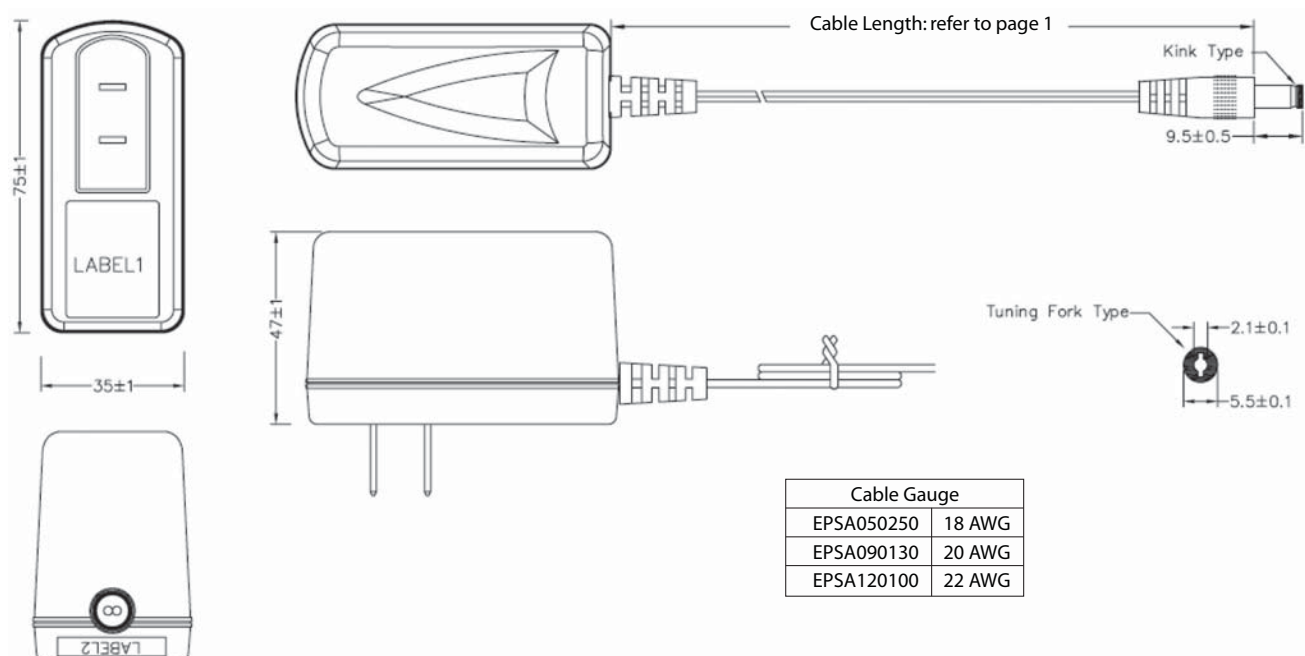
DESCRIPTION: SWITCHING POWER SUPPLY

MECHANICAL DRAWING

6 Volt model



All other models



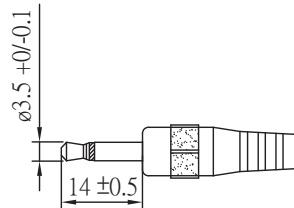


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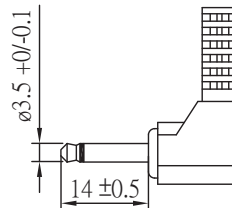
DESCRIPTION: SWITCHING POWER SUPPLY

OUTPUT PLUG OPTIONS

3.5 mm Phono Plug

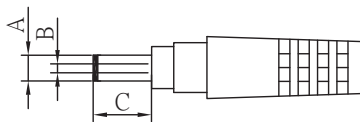


P1

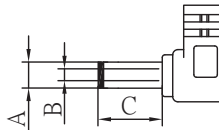


P1R

Standard DC Plug



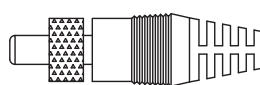
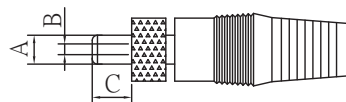
Standard PX



Right Angle PXR

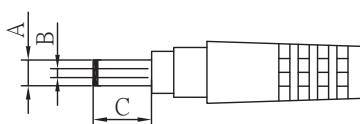
	A	B	C	Unit
P5/P5R	5.5	2.1	9.5	mm
P6/P6R	5.5	2.5	9.5	mm
P7/P7R	3.5	1.3	9.5	mm
P8/P8R	3.8	1.35	9.5	mm
P9/P9R	3.8	1.05	9.5	mm

Locking DC Plug

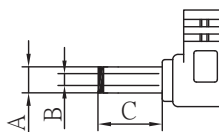


	A	B	C	Unit
P10	5.5	2.1	9.5	mm
P11	5.5	2.5	9.5	mm

EIAJ Plugs



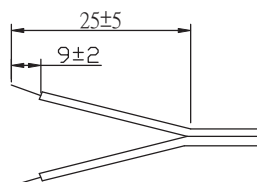
Standard PXX



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

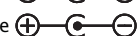
Plug type

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.