


**SERIES:** 12 W WALL PLUG - EURO BLADE | **DESCRIPTION:** AC-DC POWER SUPPLY

**FEATURES**

- up to 12 W power
- universal input (90~264 Vac)
- single regulated output from 5~12 V
- over voltage, over current, and short circuit protections
- TUV safety approvals
- level V efficiency
- custom designs available



MODEL	output voltage	output current max	output power max	ripple and noise <sup>1</sup> max	efficiency level
	(Vdc)	(A)	(W)	(mVp-p)	
EP5A050250UE	5	2.5	12	50	V
EP5A120100UE	12	1	12	120	V

Notes: 1. At full load, 100 ~ 240 Vac input, 20 MHz bandwidth oscilloscope, each output terminated with 10  $\mu$ F aluminum electrolytic and 0.1  $\mu$ F ceramic capacitors.

**PART NUMBER KEY**

**EP5A050250UE - XX - EJ - CXX**

Base Number  
example of 5 Vdc, 2.5 A

DC Plug Type

Factory Designation

Reserved for Custom Configurations

**INPUT**

parameter	conditions/description	min	nom	max	units
voltage		90		264	Vac
frequency		47		63	Hz
current				0.4	A
inrush current	at 115 Vac, full load, cold start			30	
input fuse	at 250 V			2	A

**OUTPUT**

parameter	conditions/description	min	nom	max	units
line regulation			±5		%
load regulation			±5		%
start-up				2	s
hold-up	at 110 Vac, 50 Hz, 80% max. load	10			ms

**PROTECTIONS**

parameter	conditions/description	min	nom	max	units
over voltage protection	output shut down				
over current protection				200	%
short circuit protection	output shut down and auto restart				

**SAFETY & COMPLIANCE**

parameter	conditions/description	min	nom	max	units
isolation voltage	input to output at 10 mA for 2 seconds			3,000	Vac
isolation resistance	input to output at 500 Vdc	10			MΩ
safety approvals	EN 60950-1, CE				
EMI/EMC	EN 55022 Class B, AS/NZS CISPR 22 Class B, EN 61000-3-(2,3), IEC 61000-4-(2,3,4,5,6,8,11)				
leakage current				0.25	mA
RoHS compliant	yes				
MTBF	at full load, 25°C, Telcordia SR-332, Issue 2			300,000	hours

**ENVIRONMENTAL**

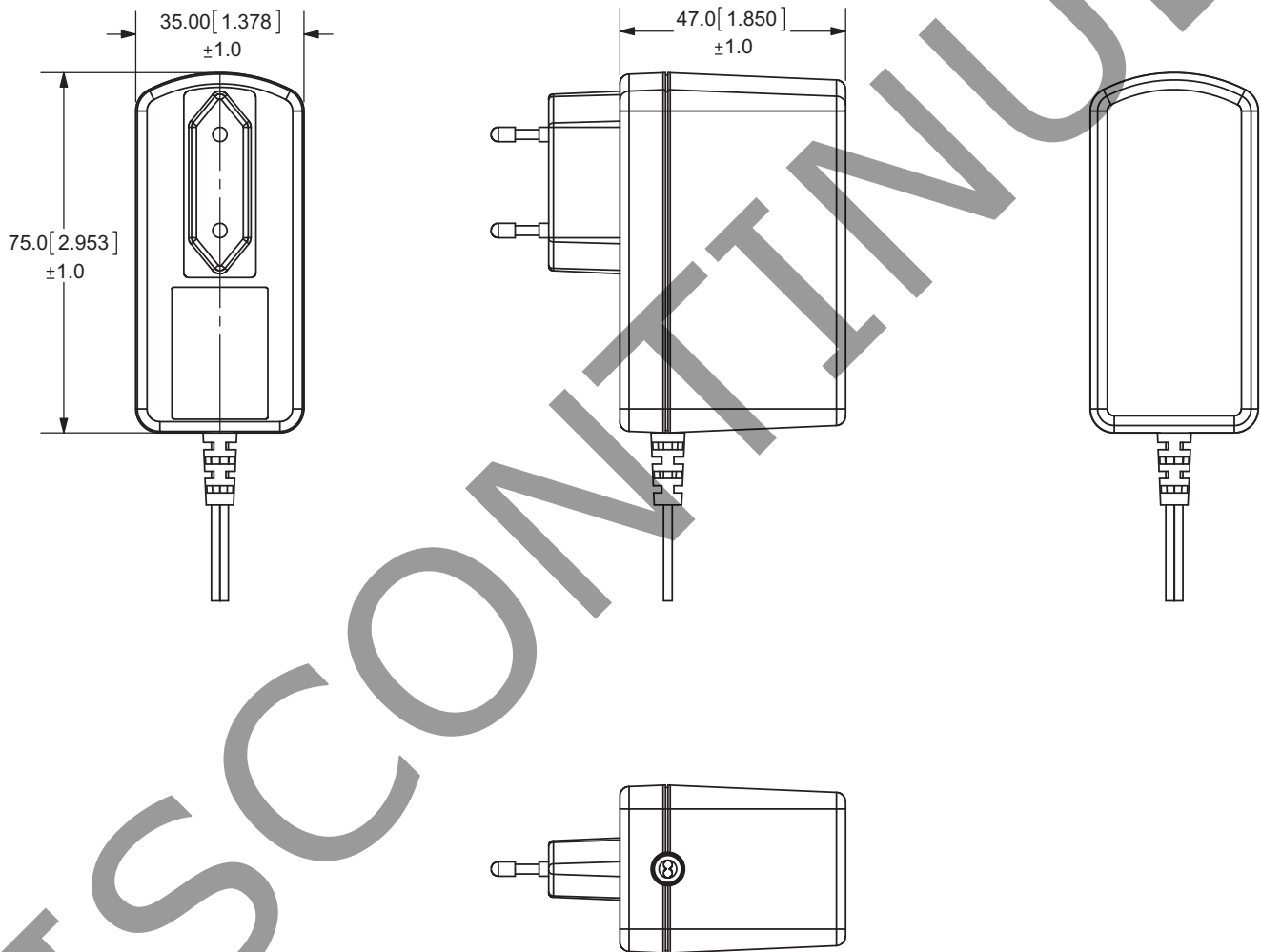
parameter	conditions/description	min	nom	max	units
operating temperature		0		40	°C
storage temperature		-25		85	°C
operating humidity		10		95	%
storage humidity		10		95	%

## MECHANICAL

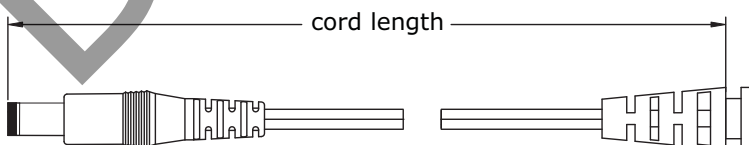
parameter	conditions/description	min	typ	max	units
dimensions	2.953 x 1.378 x 1.850 (75 x 35 x 47 mm)				inch
input plug	fixed Europe				

## MECHANICAL DRAWING

units: mm[inch]



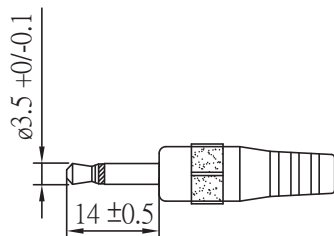
## DC CORD



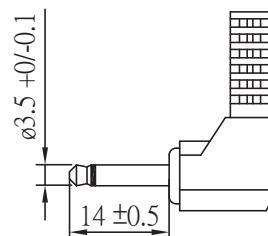
MODEL NO.	CABLE GAUGE	CORD LENGTH
EPSA050250UE	18 AWG	1,500 mm ±30
EPSA120100UE	22 AWG	1,500 mm +50/-30

## OUTPUT PLUG OPTIONS

### 3.5 mm Phono Plug

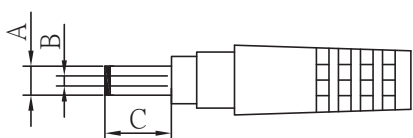


P1

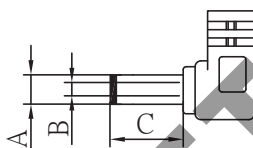


P1R

### Standard DC Plug



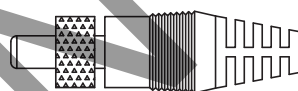
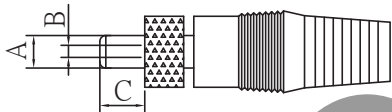
Standard PX



Right Angle PXR

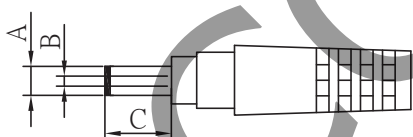
	A	B	C	Unit
P5/P5R	5.5	2.1	9.5	mm
P6/P6R	5.5	2.5	9.5	mm
P7/P7R	3.5	1.3	9.5	mm
P8/P8R	3.8	1.35	9.5	mm
P9/P9R	3.8	1.05	9.5	mm

### Locking DC Plug

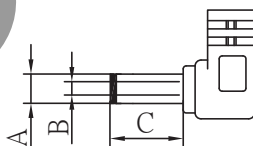


	A	B	C	Unit
P10	5.5	2.1	9.5	mm
P11	5.5	2.5	9.5	mm

### EIAJ Plugs



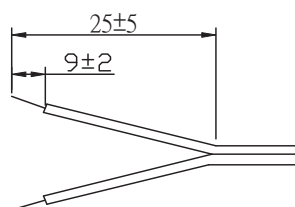
Standard PXX



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



## REVISION HISTORY

rev.	description	date
1.0	initial release	03/08/2010
1.01	updated output plug options	11/11/2010
1.02	new template applied	01/24/2012
1.03	P7/P7R B dimension updated, V-Infinity branding removed, safety and EMI/EMC data updated	08/21/2012

The revision history provided is for informational purposes only and is believed to be accurate.



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