CUI INC®

SERIES: 18 W WALL PLUG - EURO BLADE | **DESCRIPTION:** AC-DC POWER SUPPLY

DISCONTINUED

FEATURES

- up to 18 W power
- universal input (90~264 Vac)
- single regulated output from 12 V
- over voltage, over current, and short circuit protections
- TUV safety approvals
- level V efficiency
- custom designs available

RoHS CE TÜV Rheinland Product Safety GS geprüfte Sicherheit

MODEL

MODEL	output voltage (Vdc)	output current max (A)	output power max (W)	ripple and noise[1] max (mVp-p)	efficiency level
EPSA120150UE	12	1.5	18	120	V

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

PART NUMBER KEY

EPSA120150UE - XX - EJ - CXX

- **EPSA120150UE** — Base Number (example of 12 Vdc, 1.5 A)
- **XX** — DC Plug Type
- **EJ** — Factory Designation
- **CXX** — Reserved for Custom Configurations

INPUT

parameter	conditions/description	min	nom	max	units
voltage		90		264	Vac
frequency		47		63	Hz
current				0.5	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
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	%

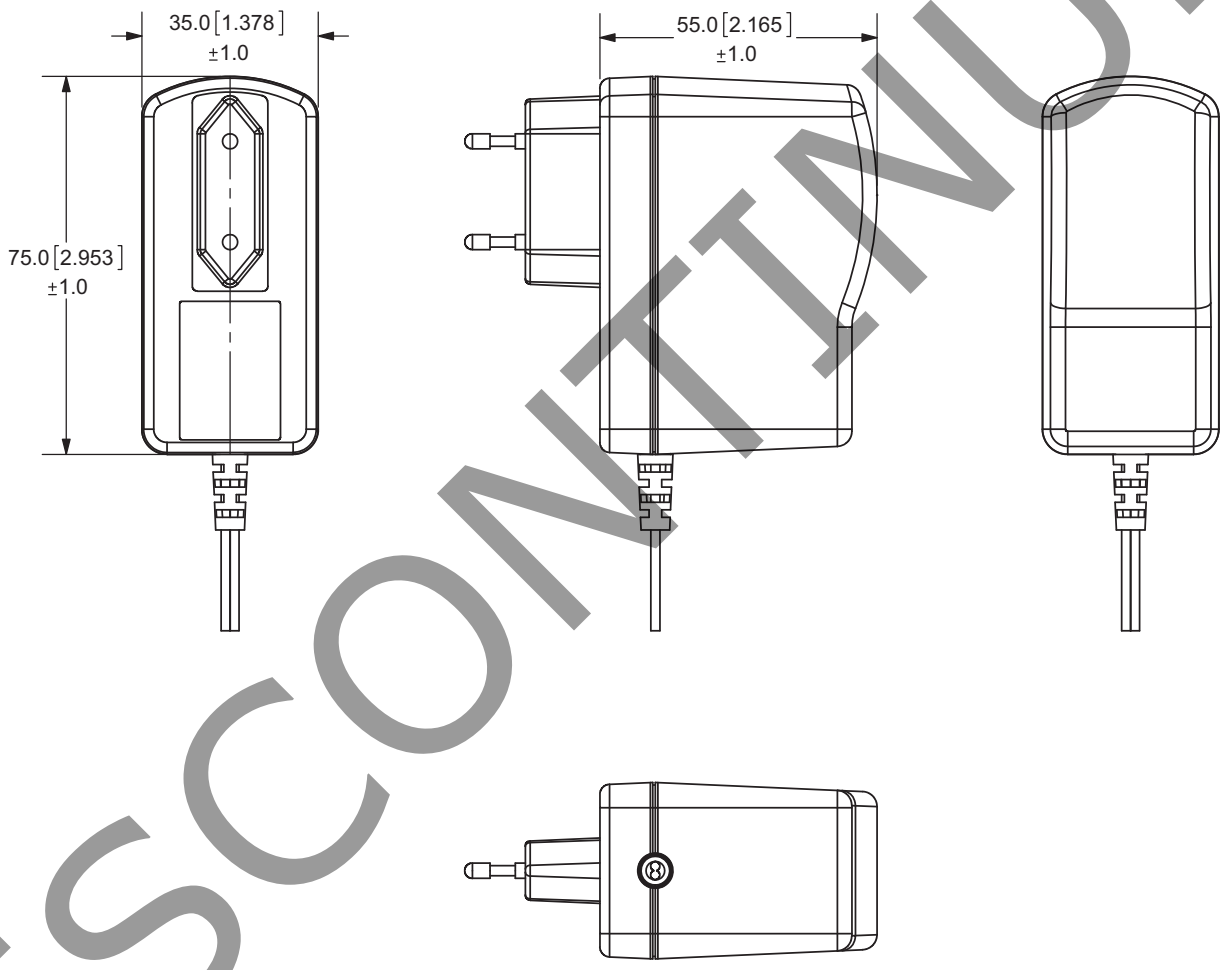
DISCONTINUED

MECHANICAL

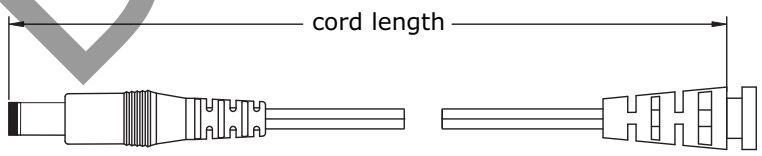
parameter	conditions/description	min	typ	max	units
dimensions	2.953 x 1.378 x 2.165 (75 x 35 x 55 mm)				inch
input plug	fixed Europe				

MECHANICAL DRAWING

units: mm



DC CORD



MODEL NO.	CABLE GAUGE	CORD LENGTH
EPSA120150UE	20 AWG	1,500 mm +50/-30

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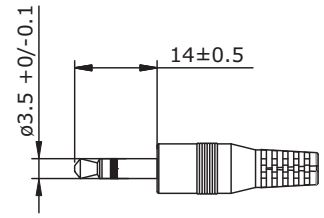
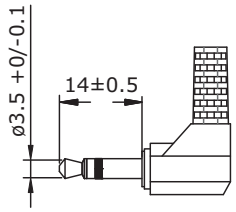
OUTPUT PLUG OPTIONS

3.5 mm Phono Plug



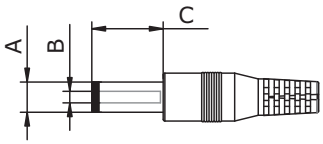
P1



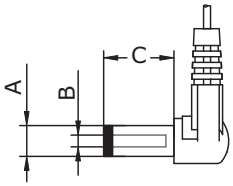
P1R

*Tip positive

Standard DC Plug



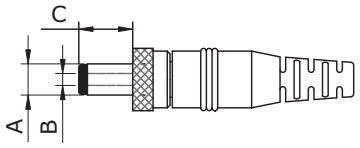
Standard PX



Right Angle PXR

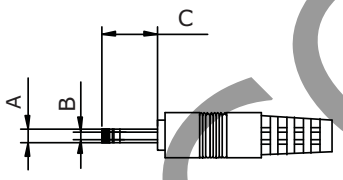
	A	B	C	Unit
P5/P5R	5.5	2.1	9.5	mm
P6/P6R	5.5	2.5	9.5	mm
P7/P7R	3.5	1.35	9.5	mm
P8/P8R	3.8	1.35	9.5	mm
P9/P9R	3.8	1.05	9.5	mm

Locking DC Plug

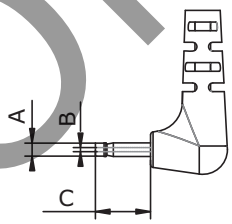


	A	B	C	Unit
P10	5.5	2.1	9.5	mm
P11	5.5	2.5	9.5	mm

EIAJ Plugs

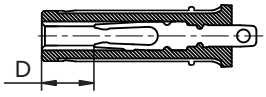


Standard PXX

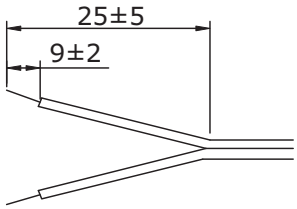


Right Angle PXXR

	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

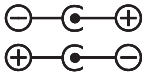
Stripped and Tinned

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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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	updated P7/P7R B dimension	03/14/2012
1.04	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.

DISCONTINUED

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CUI offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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