

SERIES: EPSA 6W | **DESCRIPTION:** AC-DC POWER SUPPLY

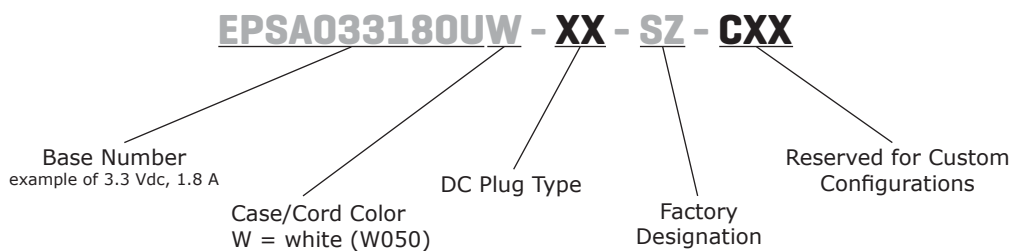
FEATURES

- up to 6 W power
- universal input (90~264 Vac)
- single regulated output from 3.3~24 V
- over voltage, over current, and short circuit protections
- UL/cUL safety approvals
- level V efficiency
- custom designs available



MODEL	output voltage	output current max	output power max	ripple and noise ¹ max	efficiency level
	(Vdc)	(A)	(W)	(mVp-p)	
EPSA033180UW	3.3	1.8	6	150	V
EPSA050120UW	5	1.2	6	150	V
EPSA060100UW	6	1	6	150	V
EPSA090067UW	9	0.67	6	150	V
EPSA120050UW	12	0.5	6	150	V
EPSA150040UW	15	0.4	6	200	V
EPSA180033UW	18	0.33	6	200	V
EPSA240025UW	24	0.25	6	200	V

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

PART NUMBER KEY


INPUT

parameter	conditions/description	min	nom	max	units
voltage		90		264	Vac
frequency		47		63	Hz
current				0.3	A RMS
no load power consumption				0.3	W

OUTPUT

parameter	conditions/description	min	nom	max	units
line regulation			±3		%
load regulation			±0.3		V

PROTECTIONS

parameter	conditions/description
over voltage protection	protected through primary circuit IC
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 1 minute			3,000 4,242	Vac Vdc
isolation resistance	input to output at 500 Vdc	10			MΩ
safety approvals	UL/cUL, PSE, LPS				
EMI/EMC	FCC, CE				
leakage current				0.1	mA
RoHS compliant	yes				

ENVIRONMENTAL

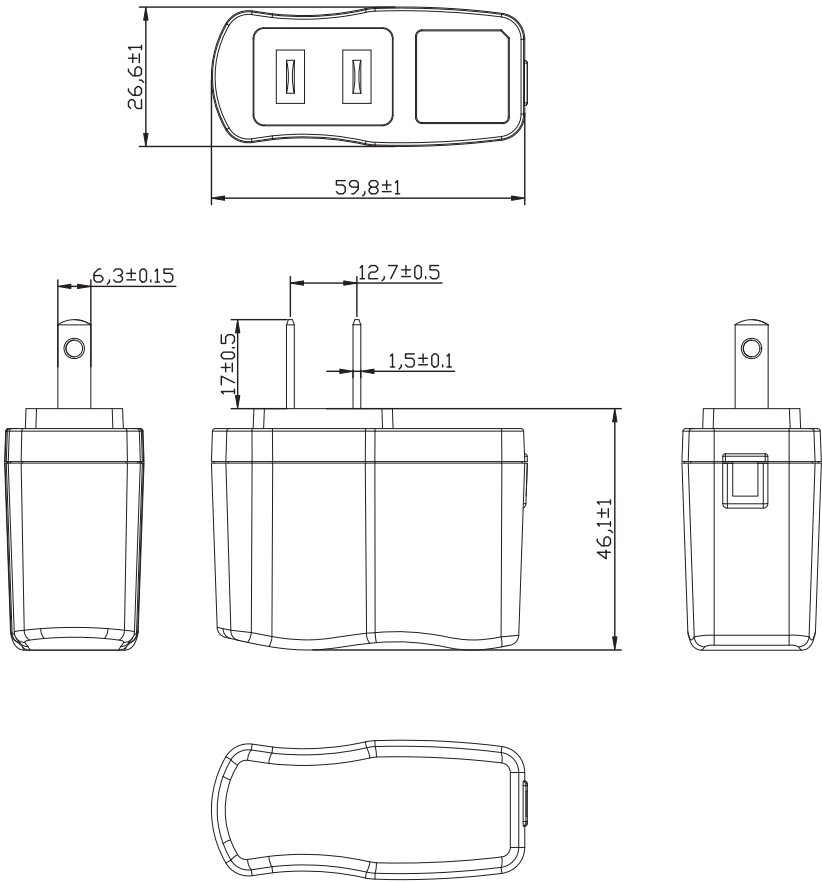
parameter	conditions/description	min	nom	max	units
operating temperature		0		40	°C
storage temperature		-10		70	°C
operating humidity		20		80	%
storage humidity		10		90	%

MECHANICAL

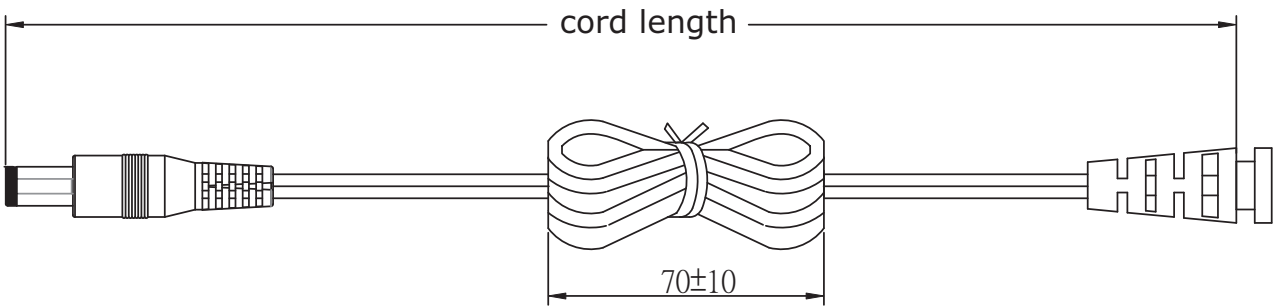
parameter	conditions/description	min	typ	max	units
dimensions	2.354 x 1.815 x 1.047 (59.8 x 46.1 x 26.6 mm)				inch
weight			63		g
input plug	fixed US				
case/cord color	white (W050)				

MECHANICAL DRAWING

units: mm



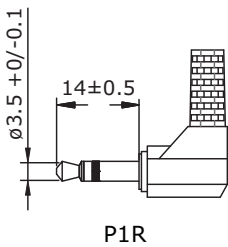
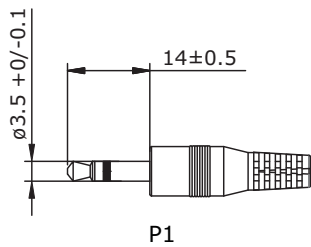
DC CORD



MODEL NO.	CABLE GAUGE	CORD LENGTH
EPSA033180UHW	20 AWG	1,000 mm ±100
EPSA050120UHW	22 AWG	1,530 mm ±100
EPSA060100UHW	22 AWG	1,530 mm ±100
EPSA090067UHW	22 AWG	1,530 mm ±100
EPSA120050UHW	24 AWG	1,530 mm ±100
EPSA150040UHW	24 AWG	1,530 mm ±100
EPSA180033UHW	24 AWG	1,530 mm ±100
EPSA240025UHW	24 AWG	1,530 mm ±100

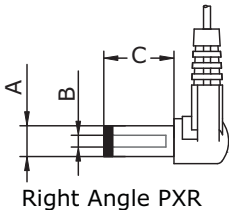
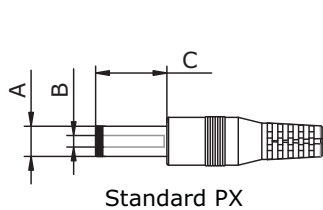
OUTPUT PLUG OPTIONS

3.5 mm Phono Plug



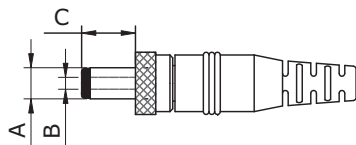
*Tip positive

Standard DC Plug



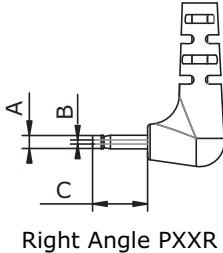
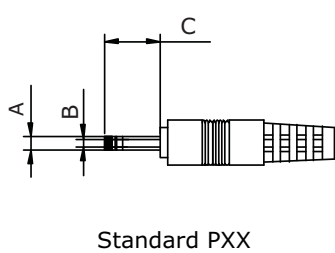
	A	B	C	Unit
P5/P5R	5.5	2.1	9.5	mm
P6/P6R	5.5	2.5	9.5	mm
P7/P7R	3.5	1.35	9.5	mm
P8/P8R	3.8	1.35	9.5	mm
P9/P9R	3.8	1.05	9.5	mm

Locking DC Plug

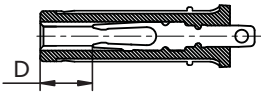


	A	B	C	Unit
P10	5.5	2.1	9.5	mm
P11	5.5	2.5	9.5	mm

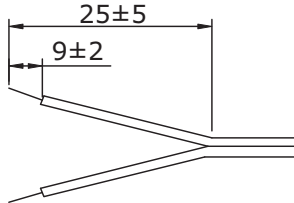
EIAJ Plugs



	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

PXXXX

Plug Type Plug Angle: "Blank" = Standard
R = Right Angle Plug Polarity: "Blank" = N/A
P = Center Positive N = Center Negative

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*Contact CUI for additional output plug options.

REVISION HISTORY

rev.	description	date
1.0	initial release	10/24/2012

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



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This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

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

CUI reserves the right to make changes to the product at any time without notice. Information provided by CUI is believed to be accurate and reliable. However, no responsibility is assumed by CUI for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

CUI products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.