

SERIES: EMSA 18W | **DESCRIPTION:** AC-DC POWER SUPPLY

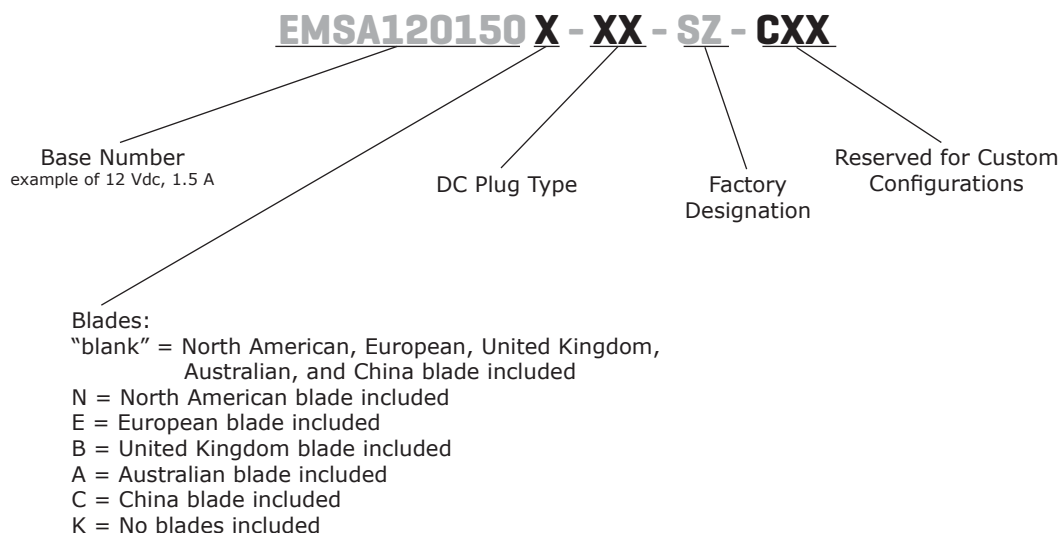
FEATURES

- up to 18W power
- interchangeable AC blades
- universal input (85-264 Vac)
- single regulated output from 5 to 24V
- short circuit protections
- UL/cUL, GS, RCM, and CCC safety approvals
- level V efficiency
- custom designs available


V-Infinity

MODEL	output voltage	output current max	output power max	ripple ¹	efficiency level
	(Vdc)	(A)	(W)	max (mVp-p)	
EMSA050300	5	3.0	15	150	V
EMSA060300	6	3.0	18	150	V
EMSA090200	9	2.0	18	150	V
EMSA120150	12	1.5	18	150	V
EMSA150120	15	1.2	18	150	V
EMSA180100	18	1.0	18	180	V
EMSA200090	20	0.9	18	200	V
EMSA240075	24	0.75	18	240	V

1. at full load, 100 ~ 240, 20 MHz bandwidth oscilloscope, each with output terminated with a 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
input current				0.6	A RMS
inrush current	5, 6 V output at 115 V ac, cold start			30	A
	5, 6 V output at 230 V ac, cold start			60	A
	all other outputs: 115 V ac, cold start			40	A
	all other outputs: 230 V ac, cold start			80	A
no load power consumption				0.3	W

OUTPUT

parameter	conditions/description	min	nom	max	units
line regulation			±1		%
load regulation			±5		%

PROTECTIONS

parameter	conditions/description	min	nom	max	units
over voltage protection	output voltage clamped by internal protection zener (5 V and 6 V models only)				
short circuit protection	Output shut down and auto restart				

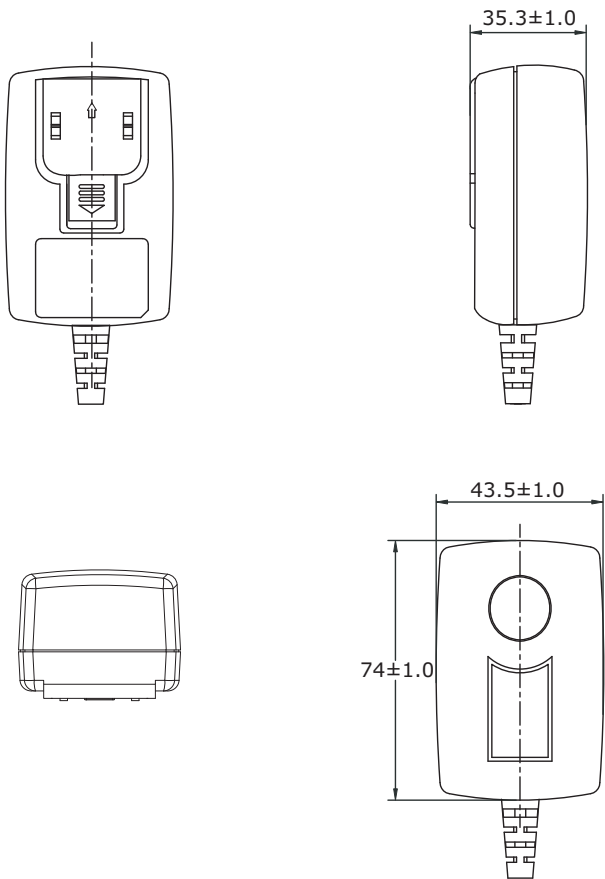
SAFETY & COMPLIANCE

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 V dc	100			MΩ
safety approvals	UL/cUL, GS, RCM, CCC, PSE				
EMI/EMC	FCC class B, EN55022, CE				
leakage current				0.25	mA
RoHS compliant	yes				

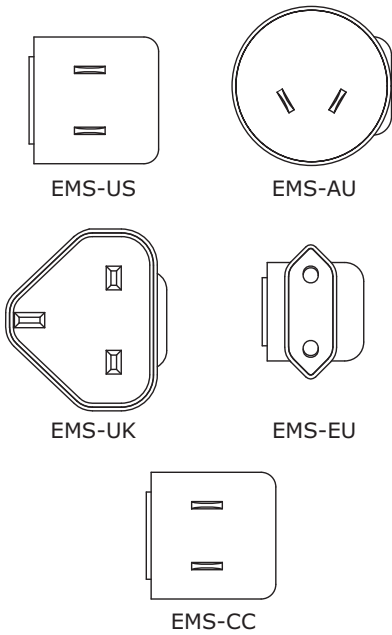
ENVIRONMENTAL

parameter	conditions/description	min	nom	max	units
operating temperature		0		40	°C
storage temperature		-10		75	°C
operating humidity		20		80	%
storage humidity		10		90	%

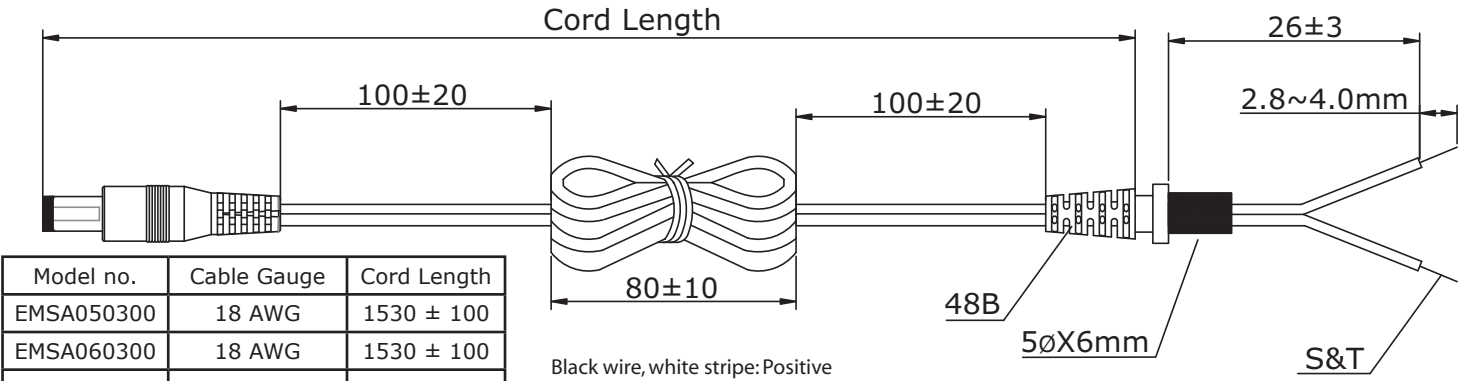
MECHANICAL DRAWING



input plug	multi-blade (US, UK, Europe, Australia, China)
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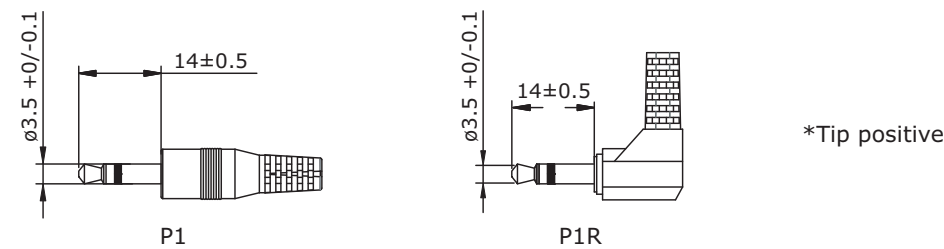


DC CORD

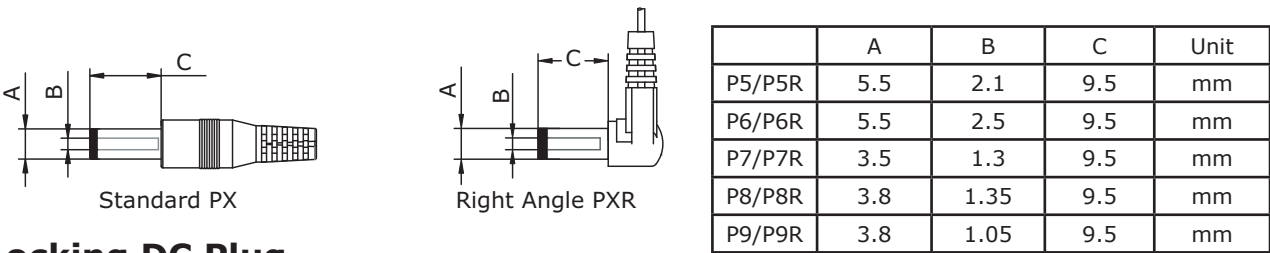


OUTPUT PLUG OPTIONS

3.5 mm Phono Plug



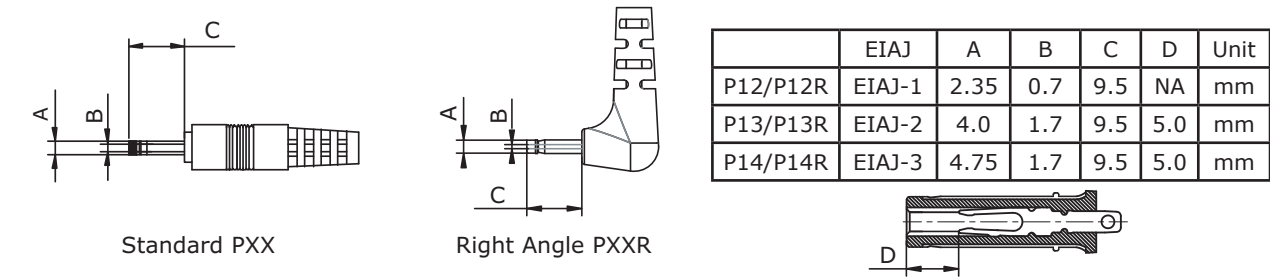
Standard DC Plug



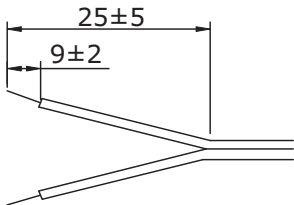
Locking DC Plug



EIAJ Plugs



Stripped and Tinned



DC PLUG TYPE

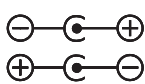
ST
stripped and tinned

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.

REVISION HISTORY

rev.	description	date
1.0	initial release	09/07/2011

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.