

SERIES: EMSA 40W | DESCRIPTION: AC-DC POWER SUPPLY

FEATURES

- up to 40 W power
- interchangeable AC blades
- universal input (90~264 Vac)
- single regulated output from 12~24 V
- over voltage and short circuit protection
- UL/cUL, GS, RCM, CCC, PSE safety approvals
- level V efficiency
- custom designs available

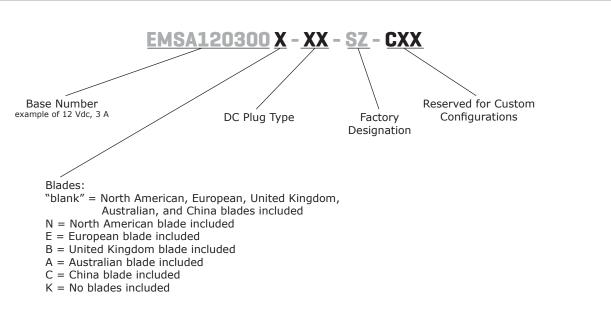


MODEL	output voltage	output current max	output power max	ripple and noise ¹ max	efficiency level
	(Vdc)	(A)	(W)	(mVp-p)	
EMSA120300	12	3.0	36	300	V
EMSA200200	20	2.0	40	300	V
EMSA240167	24	1.67	40	300	V

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

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INPUT

parameter	conditions/description	min	typ	max	units
voltage		90		264	Vac
frequency		47		63	Hz
current				1.0	A RMS
no load power consum	ption			0.3	W

OUTPUT

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

PROTECTIONS

parameter	conditions/description	
over voltage protection	output voltage clamped by internal protection zener	
short circuit protection	output shut down and auto restart	

SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	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 60950-1, EN 60950-1/IEC 60950-1, RCM, C	CC, PSE			
EMI/EMC	FCC part 15B, CISPR 22 Class B, EN 61204-3, 6100-3-(2, 3), IEC 6100-4-(2, 3, 4, 5, 6, 11),		EN 55024, E	EN 61000-3-(2	2, 3), IEC
leakage current				0.25	mA
RoHS compliant	yes				

ENVIRONMENTAL

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

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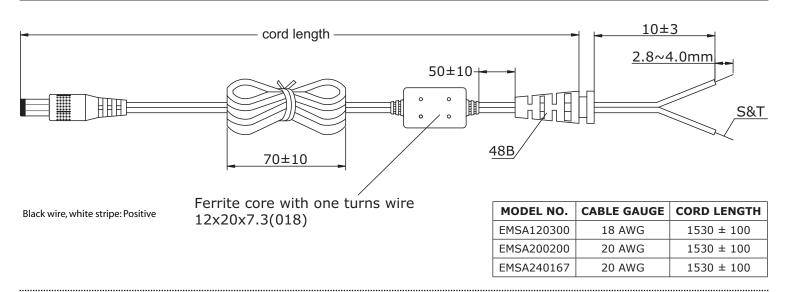
MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	2.913 x 1.713 x 1.390 (74 x 43.5 x 35.3 mm)				inch
input plug	multi-blade (US, UK, Europe, Australia, China)				

MECHANICAL DRAWING

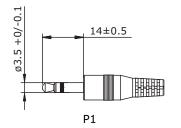
units: mm 43.5±1.0 35.3±1.0 íî 74±1.0 ĘψΞ _ 1 0 I Д EMS-UK EMS-US EMS-CC EMS-EU EMS-AU

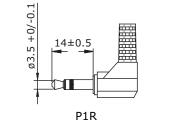
DC CORD



OUTPUT PLUG OPTIONS

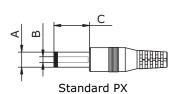


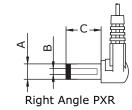




*Tip positive

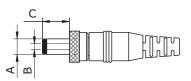
Standard DC Plug





	А	В	С	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



	А	В	С	Unit
P10	5.5	2.1	9.5	mm
P11	5.5	2.5	9.5	mm

А

2.35

4.0

4.75

В

0.7

1.7

1.7

С

9.5

9.5

9.5

D

NA

5.0

5.0

Unit

mm

mm

mm

EIAJ

EIAJ-1

EIAJ-2

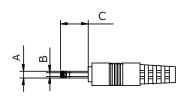
EIAJ-3

P12/P12R

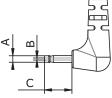
P13/P13R

P14/P14R

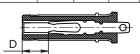
EIAJ Plugs



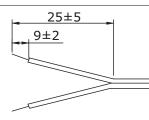
Standard PXX



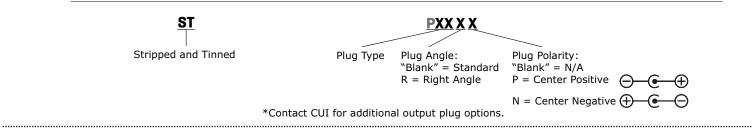
Right Angle PXXR



Stripped and Tinned



DC PLUG TYPE



REVISION HISTORY

rev.	description	date
1.0	initial release	06/21/2010
1.01	new template applied	08/08/2011
1.02	PSE safety approval added	09/07/2011
1.03	updated P7/P7R B dimension	03/23/2012
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.



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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.

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