

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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08/21/2012

1 of 5 page

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

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 noise¹ 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

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

PART NUMBER KEY

Base Number Reserved for Custom xample of 12 Vdc, 3 A DC Plug Type Configurations **Factory** Designation

Blades:

"blank" = North American, European, United Kingdom, Australian, and China blades included

N = North American blade included

E = European blade included

B = United Kingdom blade included

A = Australian blade included

C = China blade included

K = No blades included

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	nption			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 prot	otection 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			ΜΩ
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, E 6100-3-(2, 3), IEC 6100-4-(2, 3, 4, 5, 6, 11), C		EN 55024, E	N 61000-3-(2	2, 3), IEC
leakage current				0.25	mA
RoHS compliant	yes				

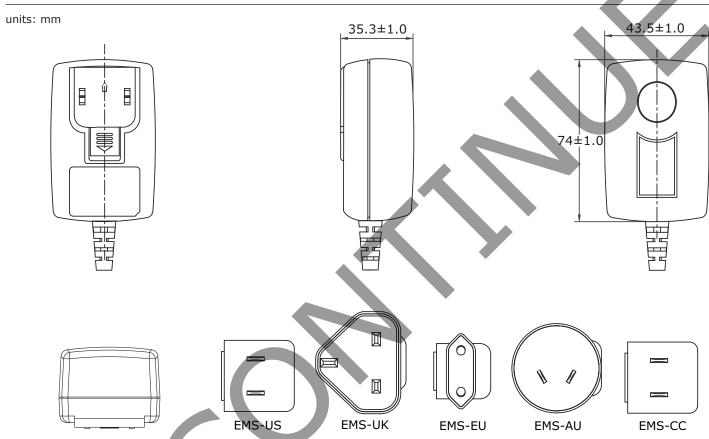
ENVIRONMENTAL

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

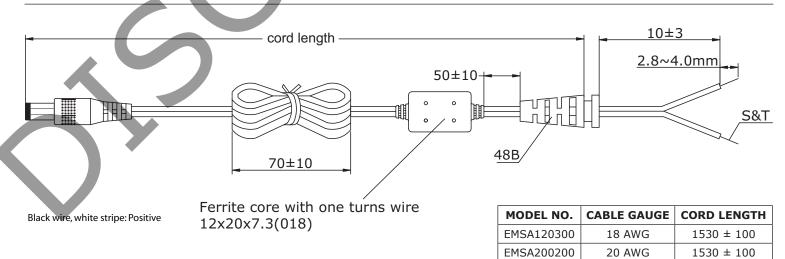
MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	2.913 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



DC CORD



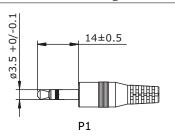
EMSA240167

20 AWG

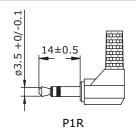
 1530 ± 100

OUTPUT PLUG OPTIONS

3.5 mm Phono Plug

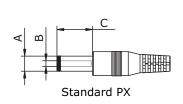


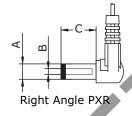
CUI Inc | SERIES: EMSA 40W | DESCRIPTION: AC-DC POWER SUPPLY



*Tip positive

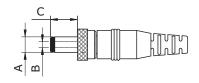
Standard DC Plug





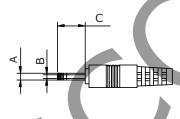
	А	В	С	Unit
P5/P5R	5.5	2.1	9.5	mm
P6/P6R	5.5	2.5	9.5	mm
P7/P7R	3.5	1.35	9.5	mm
P8/P8R	3.8	1.35	9.5	mm
P9/P9R	3.8	1.05	9.5	mm

Locking DC Plug

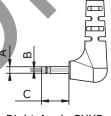


	А	В	С	Unit
P10	5.5	2.1	9.5	mm
P11	5.5	2.5	9.5	mm

EIAJ Plugs

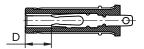




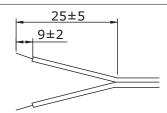


Right	Angle	PXXR

	EIAJ	Α	В	С	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



PXXXX

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



*Contact CUI for additional output plug options.

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.

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.