

# SERIES: EMSA 30W | DESCRIPTION: AC-DC POWER SUPPLY

#### FEATURES

- up to 30 W power
- interchangeable AC blades
- universal input (90~264 Vac)
- single regulated output from  $12 \sim 24 \text{ V}$
- short circuit protection
- UL/cUL, GS, RCM, CCC safety approvals
- level V efficiency
- custom designs available



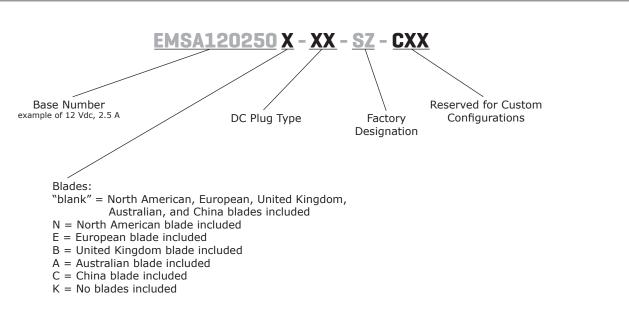
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MODEL	output voltage	output current	output power	ripple and noise <sup>1</sup>	efficiency level
	(Vdc)	max (A)	max (W)	<b>max</b> (mVp-p)	
EMSA120250	12	2.5	30	300	V
EMSA200150	20	1.5	30	300	V
EMSA240125	24	1.25	30	300	V

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
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 Vdc	100			MΩ
safety approvals	UL 60950-1, EN 60950-1/IEC 60950-1, RCM, CCC				
EMI/EMC	Class B, VCCI Class II, CE				
leakage current				0.25	mA
RoHS compliant	yes				

# **ENVIRONMENTAL**

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

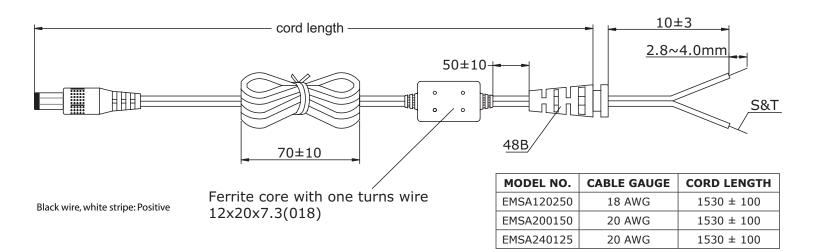
parameter	conditions/description	min	typ	max	units
dimensions	2.913 x 1.713 x 1.390 (74 x 43.5 x 35.3 mm)				inch
input plug	multi-blade (US, UK, Europe, Australia, China)				

# **MECHANICAL DRAWING**

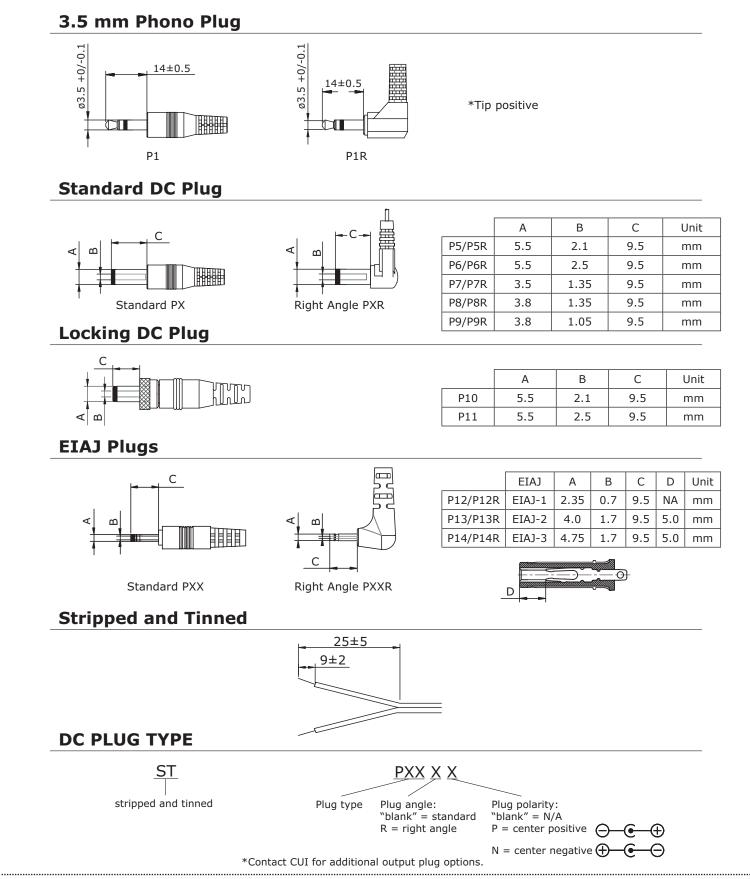
units: mm 43.5±1.0 35.3±1.0 ŵ E 74±1.0 면다 \_ I Д EMS-UK EMS-US EMS-CC EMS-EU EMS-AU

#### DC CORD

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# **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
1.05	corrected dc cord gauge values	03/01/2013

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.