

SERIES: EMMA 30W | **DESCRIPTION:** MEDICAL AC-DC POWER SUPPLY

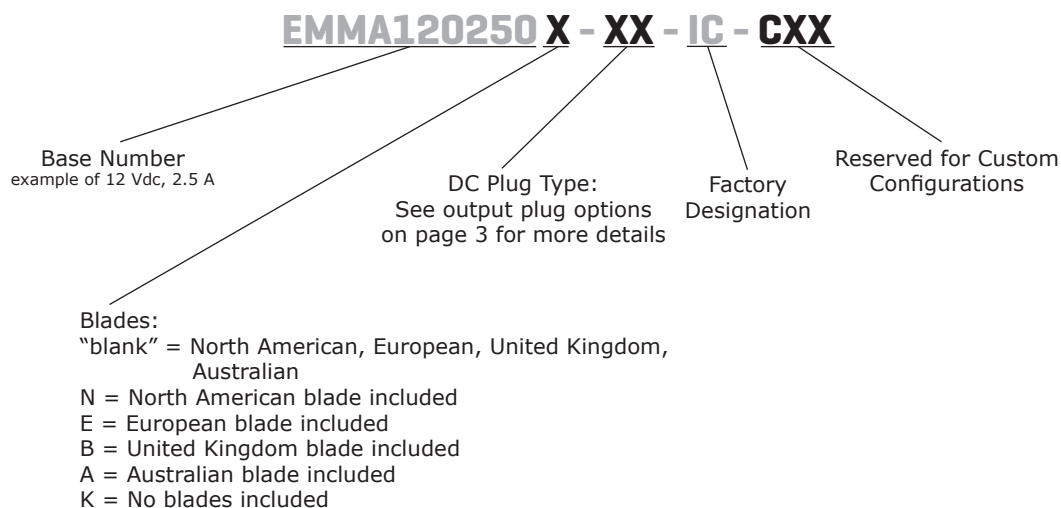
FEATURES

- up to 30 W power
- universal input (90~264 Vac)
- interchangeable AC blades
- single regulated output from 5~24 Vdc
- over voltage and short circuit protections
- medical 60601-1 4th edition safety approvals
- designed for 2 x MOPP applications
- level V efficiency



MODEL	output voltage (Vdc)	output current max (A)	output power max (W)	ripple and noise ¹ max (mVp-p)	efficiency level
EMMA050400	5	4	20	50	V
EMMA090300	9	3	27	90	V
EMMA120250	12	2.5	30	120	V
EMMA150200	15	2	30	150	V
EMMA180167	18	1.67	30	180	V
EMMA240125	24	1.25	30	240	V

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

PART NUMBER KEY


INPUT

parameter	conditions/description	min	typ	max	units
voltage		90		264	Vac
frequency		47		63	Hz
input current				0.8	A
inrush current	at 240 V ac, cold start			100	A
no load power consumption				0.3	W

OUTPUT

parameter	conditions/description	min	typ	max	units
line regulation ¹			±1		%
load regulation ²	5 Vdc output		±6		%
	9 Vdc output		±3		%
	all other outputs		±2		%
voltage accuracy			±2		%
hold-up time	at 115 Vac		10		ms
switching frequency			70		kHz
temperature coefficient			±0.05		%/°C

Note: 1. measured from 100 ~ 240 Vac, full load
2. measured from 60% to full load and from 60 ~ 20% load (60% ±40% load)

PROTECTIONS

parameter	conditions/description
over voltage protection	TVS component to clamp
short circuit protection	continuous, auto restart

SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output			5,656	Vdc
safety approvals	medical IEC 60601-1, EN 60601-1, UL 60601-1 4th edition				
EMI/EMC	EN 55011 Class B, FCC CRF47 Part 18 Class B, EN 60601-1-2, EN 61000-3-(2,3), IEC 61000-4-(2,4,5,6,8,11)				
leakage current				0.1	mA
MTBF	as per MIL-HDBK-217F, 115 Vac, 25 °C	200,000			hours
RoHS	2011/65/EU				

ENVIRONMENTAL

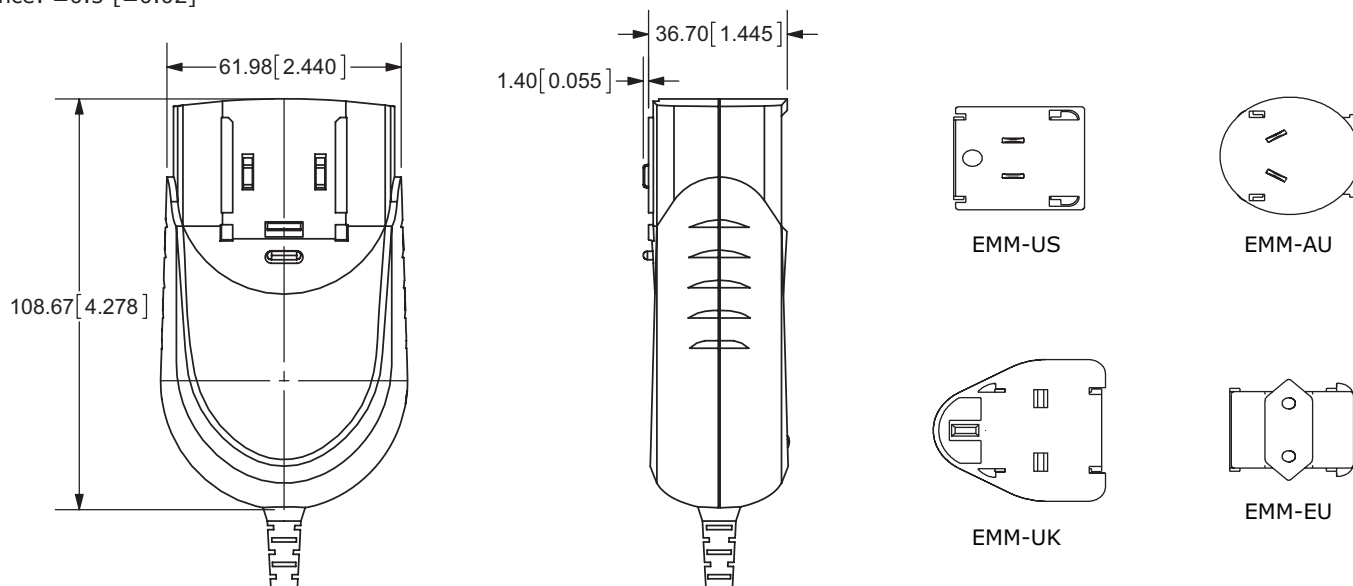
parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-20		85	°C
humidity	non-condensing			93	%

MECHANICAL

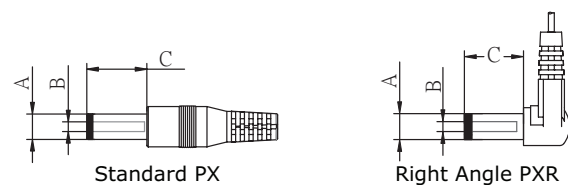
parameter	conditions/description	min	typ	max	units
dimensions	108.67 x 61.98 x 36.70 (4.278 x 2.440 x 1.445 inch)				mm
input plug	interchangeable blades (US, Europe, UK, Australia)				
weight			300		g

MECHANICAL DRAWING

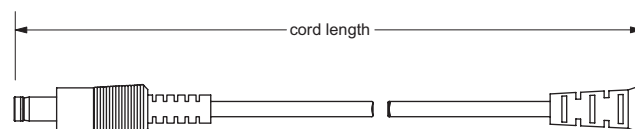
units: mm [inches]

tolerance: ± 0.5 [± 0.02]

DC OUTPUT PLUG OPTIONS / DC CORD



	A	B	C	Unit
P5/P5R	5.5	2.1	9.5	mm
P6/P6R	5.5	2.5	9.5	mm



MODEL NO.	CABLE GAUGE	CORD LENGTH
EMMA050040	18 AWG	1,220 mm ± 50
EMMA090300	18 AWG	1,220 mm ± 50
EMMA120250	18 AWG	1,800 mm ± 50
EMMA150200	18 AWG	1,800 mm ± 50
EMMA180167	18 AWG	1,800 mm ± 50
EMMA240125	18 AWG	1,800 mm ± 50

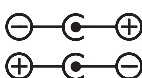
PXXXX

Plug Type

Plug Angle:
 "Blank" = Standard
 R = Right Angle

Plug Polarity:
 "Blank" = N/A
 P = Center Positive

N = Center Negative



REVISION HISTORY

rev.	description	date
1.0	initial release	12/16/2011
1.01	updated P7/P7R B dimension	03/23/2012
1.02	V-Infinity branding removed	08/21/2012
1.03	updated datasheet	07/10/2015
1.04	updated to medical 60601-1 4th edition	06/20/2017

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.

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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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