



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

FEATURES

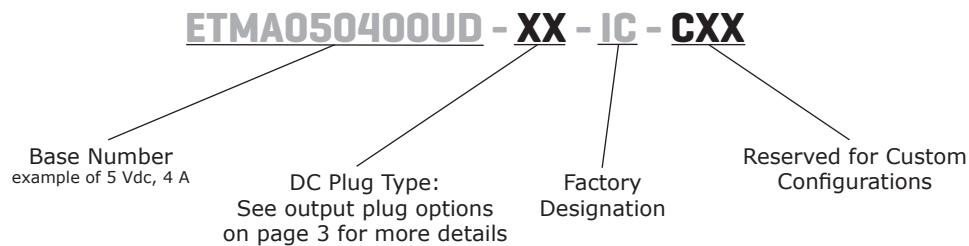
- up to 30 W power
- universal input (90~264 Vac)
- single regulated output from 5~24 Vdc
- over voltage and short circuit protections
- full medical safety approvals
- level V efficiency
- custom designs available



MODEL	output voltage (Vdc)	output current max (A)	output power max (W)	ripple and noise ¹ max (mVp-p)	efficiency level
ETMA050400UD	5	4	20	50	V
ETMA090300UD	9	3	27	90	V
ETMA120250UD	12	2.5	30	120	V
ETMA150200UD	15	2	30	150	V
ETMA180165UD	18	1.65	30	180	V
ETMA240125UD	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				0.6	A
inrush current	at 240 Vac			50	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		±4		%
	12, 15 Vdc outputs		±3		%
	18, 24 Vdc outputs		±2		%
voltage accuracy			±2		%
hold-up time	at 115 Vac		16		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	IEC 60601-1, EN 60601-1, UL 60601-1				
EMI/EMC	EN 55011, EN 60601-1-2, EN 61000-3-(2,3)				
MTBF	as per MIL-HDBK-217F, 115 Vac, 25 °C	300,000			hours
RoHS	2011/65/EU				

ENVIRONMENTAL

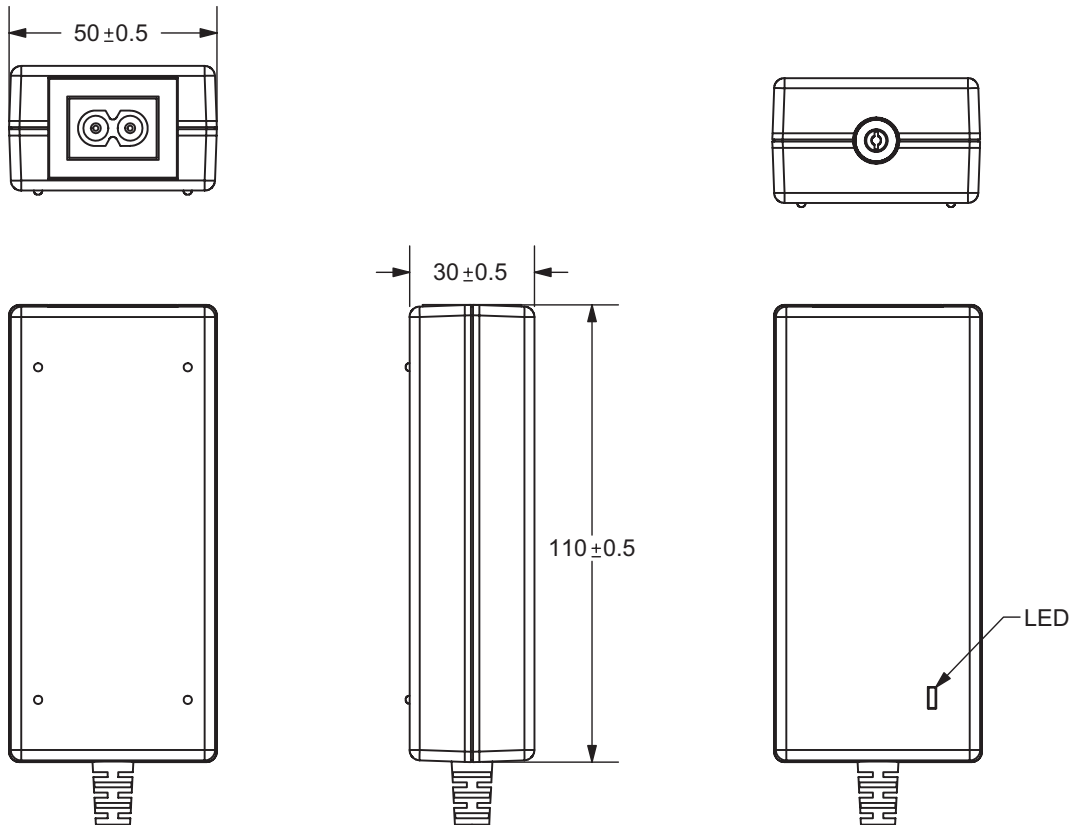
parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-20		85	°C
humidity	non-condensing			93	%

MECHANICAL

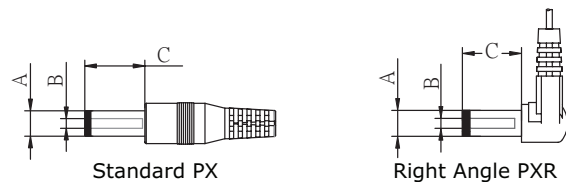
parameter	conditions/description	min	typ	max	units
dimensions	110 x 50 x 30 (4.331 x 1.969 x 1.181 inch)				mm
input plug	IEC320 / C8				
weight			220		g

MECHANICAL DRAWING

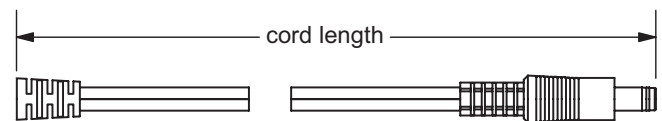
units: mm



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
ETMA050400UD	18 AWG	720 mm $\pm$ 50
ETMA090300UD	18 AWG	1,220 mm $\pm$ 50
ETMA120250UD	18 AWG	1,800 mm $\pm$ 50
ETMA150200UD	18 AWG	1,800 mm $\pm$ 50
ETMA180165UD	18 AWG	1,800 mm $\pm$ 50
ETMA240125UD	18 AWG	1,800 mm $\pm$ 50

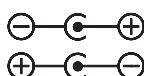
PXX XX

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	12/02/2011
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

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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Mouser Electronics

Authorized Distributor

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CUI Inc.:

<u>ETMA120250UD-P5P-IC</u>	<u>ETMA050400UD-P6RP-IC</u>	<u>ETMA090300UD-P6P-IC</u>	<u>ETMA150200UD-P5RP-IC</u>
<u>ETMA090300UD-P6RP-IC</u>	<u>ETMA050400UD-P6P-IC</u>	<u>ETMA150200UD-P5P-IC</u>	<u>ETMA050400UD-P5P-IC</u>
<u>ETMA120250UD-P5RP-IC</u>	<u>ETMA050400UD-P5RP-IC</u>	<u>ETMA120250UD-P6P-IC</u>	<u>ETMA150200UD-P6P-IC</u>
<u>ETMA120250UD-P6RP-IC</u>	<u>ETMA150200UD-P6RP-IC</u>	<u>ETMA090300UD-P5RP-IC</u>	<u>ETMA090300UD-P5P-IC</u>
<u>ETMA240125UD-P5RP-IC</u>	<u>ETMA240125UD-P6P-IC</u>	<u>ETMA240125UD-P6RP-IC</u>	<u>ETMA240125UD-P5P-IC</u>
<u>ETMA180165UD-P6P-IC</u>	<u>ETMA180165UD-P6RP-IC</u>	<u>ETMA180165UD-P5P-IC</u>	<u>ETMA180165UD-P5RP-IC</u>