

**SERIES:** ETMA 60W | **DESCRIPTION:** MEDICAL AC-DC POWER SUPPLY

**FEATURES**

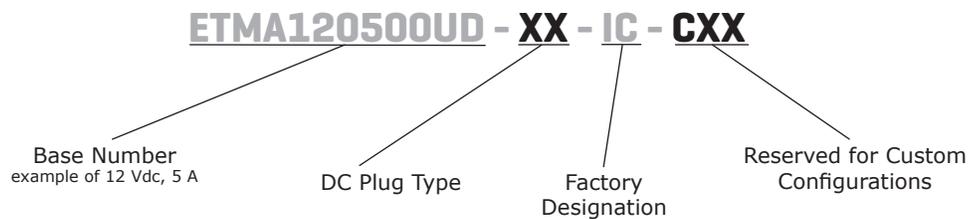
- up to 60 W power
- universal input (90~264 Vac)
- single regulated output from 12~48 V
- over voltage and short circuit protections
- full medical safety approvals
- level V efficiency
- custom designs available



<b>MODEL</b>	<b>output voltage</b> (Vdc)	<b>output current max</b> (A)	<b>output power max</b> (W)	<b>ripple and noise<sup>1</sup> max</b> (mVp-p)	<b>efficiency level</b>
ETMA120500	12	5	60	120	V
ETMA150400	15	4	60	150	V
ETMA180333	18	3.33	60	180	V
ETMA240250	24	2.5	60	240	V
ETMA360166	36	1.66	60	360	V
ETMA480125	48	1.25	60	480	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**



## INPUT

parameter	conditions/description	min	typ	max	units
voltage		90		264	Vac
frequency		47		63	Hz
inrush current	at 240 Vac			80	A
no load power consumption				0.3	W

## OUTPUT

parameter	conditions/description	min	typ	max	units
line regulation <sup>1</sup>			±1		%
load regulation <sup>2</sup>	12 V output		±5		%
	15 V output		±3		%
	all other outputs		±2		%
voltage accuracy	all other outputs		±2		%
hold-up time	at 115 Vac		8		ms
switching frequency			100		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	min	typ	max	units
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)				
leakage current				0.1	mA
MTBF	at 25°C, 115 Vac, per MIL-HDBK-217F	200,000			hours
RoHS compliant	yes				

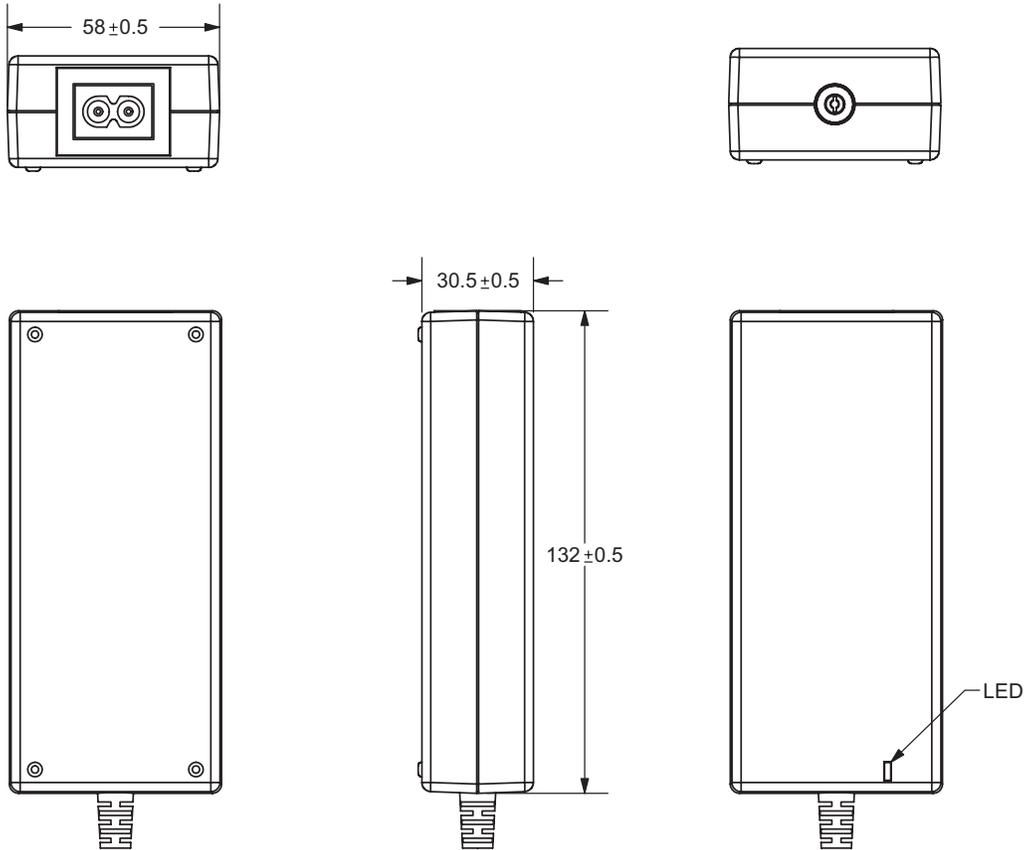
## ENVIRONMENTAL

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

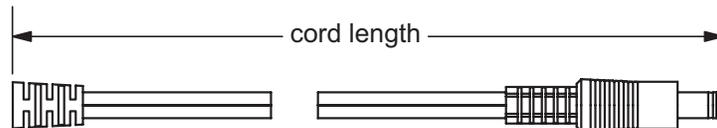
## MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	132 x 58 x 30.5 (5.2 x 2.28 x 1.2 inch)				mm
input plug	IEC320 / C8				
weight			345		g

## MECHANICAL DRAWING



## 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
ETMA120500	16 AWG	720 mm $\pm$ 50
ETMA150400	16 AWG	1,220 mm $\pm$ 50
ETMA180333	16 AWG	1,500 mm $\pm$ 50
ETMA240250	16 AWG	1,800 mm $\pm$ 50
ETMA360166	16 AWG	1,800 mm $\pm$ 50
ETMA480125	16 AWG	1,800 mm $\pm$ 50

## 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	10/31/2012
1.04	corrected dc cord table	07/02/2013

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.