

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

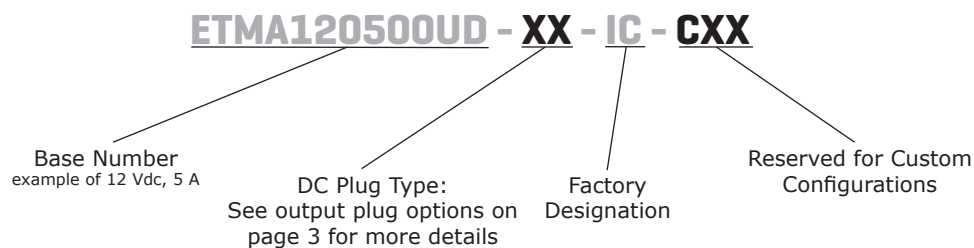
FEATURES

- up to 60 W power
- universal input (90~264 Vac)
- single regulated output from 12~48 Vdc
- over voltage and short circuit protections
- medical 60601-1 4th edition safety approvals
- designed for 2 x MOPP applications
- 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
ETMA120500UD	12	5	60	120	V
ETMA150400UD	15	4	60	150	V
ETMA180333UD	18	3.33	60	180	V
ETMA240250UD	24	2.5	60	240	V
ETMA360166UD	36	1.66	60	360	V
ETMA480125UD	48	1.25	60	480	V

Notes: 1. At full load, 100 ~ 240 Vac input, 20 MHz bandwidth oscilloscope, each output terminated with 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
inrush current	at 240 Vac			80	A
no load power consumption				0.3	W

OUTPUT

parameter	conditions/description	min	typ	max	units
line regulation ¹			±1		%
load regulation ²	12 Vdc output		±5		%
	15 Vdc output		±3		%
	all other outputs		±2		%
voltage accuracy			±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	medical IEC 60601-1, EN 60601-1, UL 60601-1 4th edition				
EMI/EMC	EN 55011, EN 60601-1-2, EN 61000-3-(2,3)				
leakage current				0.1	mA
MTBF	as per MIL-HDBK-217F, 115 Vac, 25 °C	200,000			hours
RoHS	2011/65/EU				

ENVIRONMENTAL

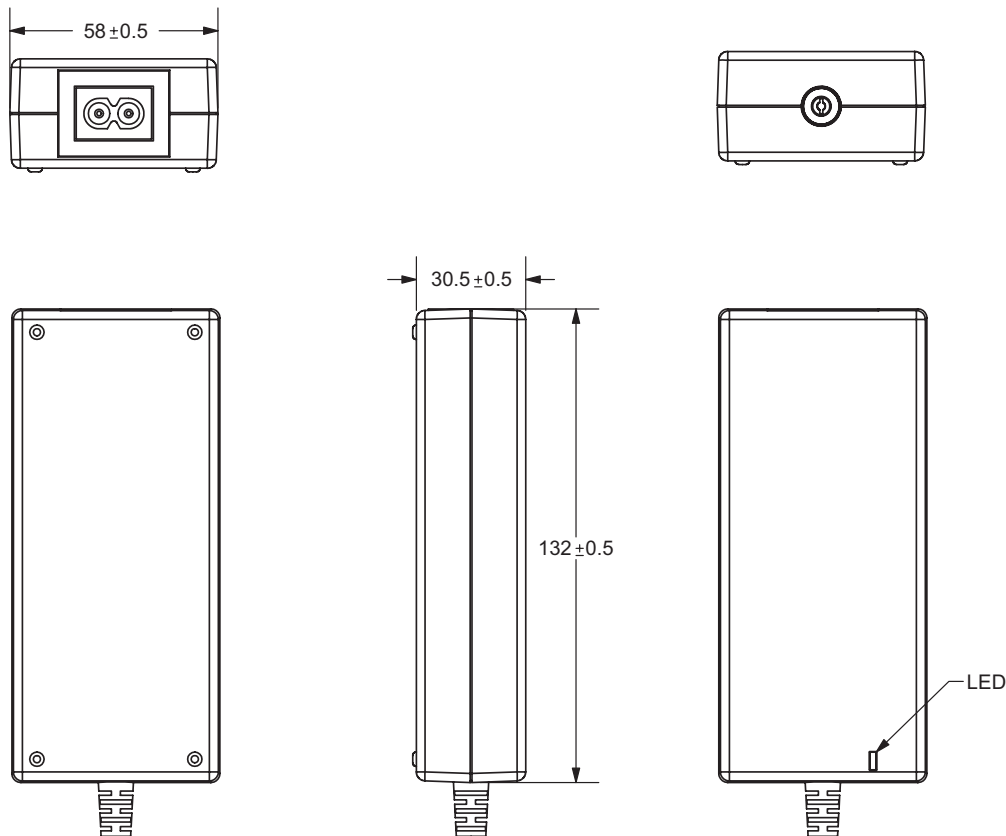
parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-20		85	°C
humidity	non-condensing			93	%

MECHANICAL

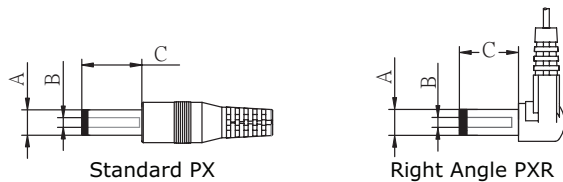
parameter	conditions/description	min	typ	max	units
dimensions	132 x 58 x 30.5 (5.2 x 2.28 x 1.2 inch)				mm
input plug	IEC320 / C8				
weight			345		g

MECHANICAL DRAWING

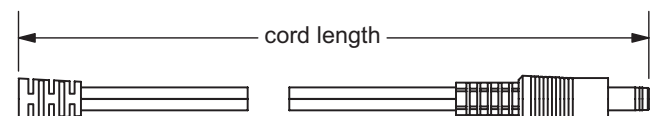
units: mm



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



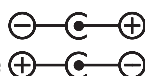
MODEL NO.	CABLE GAUGE	CORD LENGTH
ETMA120500UD	16 AWG	720 mm $\pm$ 50
ETMA150400UD	16 AWG	1,220 mm $\pm$ 50
ETMA180333UD	16 AWG	1,500 mm $\pm$ 50
ETMA240250UD	16 AWG	1,800 mm $\pm$ 50
ETMA360166UD	16 AWG	1,800 mm $\pm$ 50
ETMA480125UD	16 AWG	1,800 mm $\pm$ 50

PXXX

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	10/31/2012
1.04	corrected dc cord table	07/02/2013
1.05	updated datasheet	07/10/2015
1.06	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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<http://moschip.ru/get-element>

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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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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