

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









09/04/2013

1 of 5 page

DESCRIPTION: MEDICAL AC-DC POWER SUPPLY SERIES: ETMA 110W U

FEATURES

- up to 110 W power
- universal input (90~264 Vac)
- single regulated output from 12~24 V
- over voltage, overload and short circuit protections
- full medical safety approvals
- level V efficiency
- custom designs available

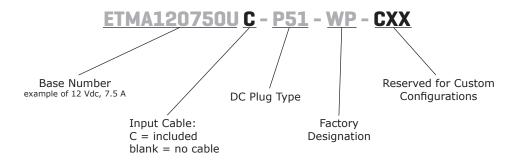




MODEL	output voltage	output current	output power	ripple and noise¹	efficiency level
	(Vdc)	max (A)	max (W)	max (mVp-p)	
ETMA120750U	12	7.5	90	120	V
ETMA135667U	13.5	6.67	90	135	V
ETMA150667U	15	6.67	100	150	V
ETMA190580U	19	5.8	110	190	V
ETMA200550U	20	5.5	110	200	V
ETMA240460U	24	4.6	110	240	V

Notes: 1. At full load, $100 \sim 240$ Vac input, 20 MHz bandwidth oscilloscope, each output terminated with $10 \, \mu F$ aluminum electrolytic and $0.1 \, \mu F$ ceramic capacitors.

PART NUMBER KEY



date 09/04/2013 | page 2 of 5

INPUT

parameter	conditions/description	min	typ	max	units
voltage		90		264	Vac
frequency		47		63	Hz
current	at 90 Vac, 50 Hz			2	А
inrush current	at 230 Vac, cold start			70	А
no load power consumpti	ion			0.3	W

OUTPUT

parameter	conditions/description	min	typ	max	units
total regulation	19, 20, 24 V outputs		±3		%
total regulation	all other outputs		±5		%
hold-up time	at 115 / 230 Vac, full load	10			ms
temperature coefficient				±0.05	%/°C

PROTECTIONS

parameter	conditions/description			
	13.5 V output	118	150	%
over voltage protection	24 V output	113	150	%
3 1	all other outputs	120	150	%
overload protection	shutdown and auto restart		160	%
short circuit protection	output shutdown and auto restart			

SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output for 2 seconds input to frame ground for 2 seconds			5,656 2,121	Vdc Vdc
insulation resistance	input to output, at 500 Vdc input to frame ground, at 500 Vdc	20 20			MΩ MΩ
safety approvals	UL/cUL UL 60601-1, EN 60601-1, CB IEC 606	501-1			
EMI/EMC	FCC Part 18 Class B, EN 60601-1 Class B, EN	55011 Class B			
leakage current				0.1	mA
MTBF	at 25°C, max. load	100,000			hours
RoHS compliant	yes				

ENVIRONMENTAL

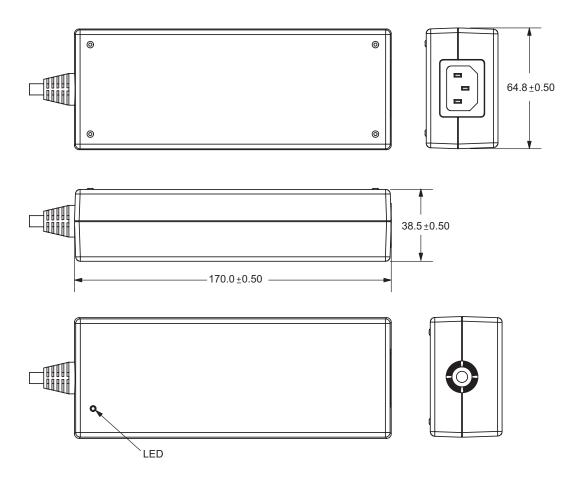
parameter	conditions/description	min	typ m	nax	units
operating temperature		0	4	40	°C
storage temperature		-10	-	70	°C
humidity	non-condensing	10	9	90	%

MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	6.69 x 2.55 x 1.52 (170 x 64.8 x 38.5 mm)				inch
input plug	IEC320 / C14				
weight			0.61		kg

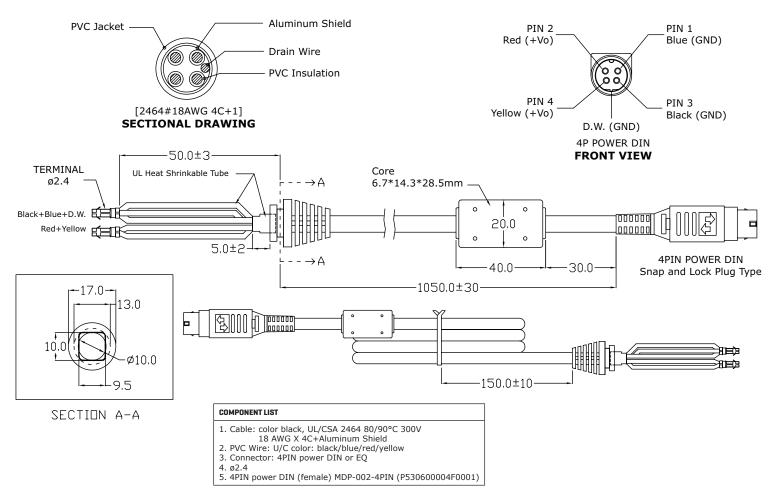
MECHANICAL DRAWING

units: mm

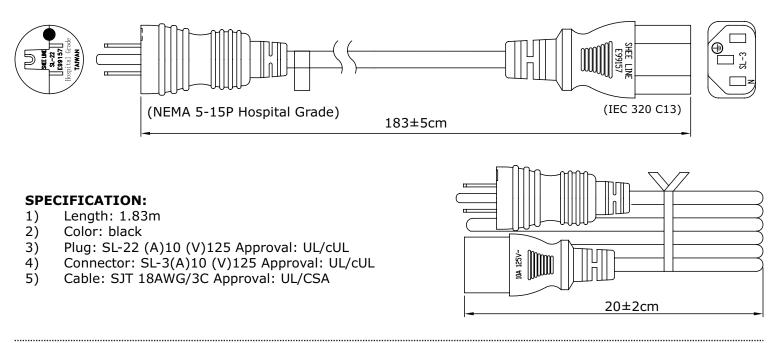


CUI Inc | SERIES: ETMA 110W U | DESCRIPTION: MEDICAL AC-DC POWER SUPPLY

DC CORD



AC CORD



REVISION HISTORY

rev.	description	date
1.0	initial release	06/05/2012
1.01	description and warranty updated	08/21/2012
1.02	replaced TUV approval with Nemko	09/04/2013

The revision history provided is for informational purposes only and is believed to be accurate.



Headquarters 20050 SW 112th Ave. Tualatin, OR 97062 800.275.4899

Fax 503.612.2383 cui.com techsupport@cui.com

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 two (2) 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.