

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

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

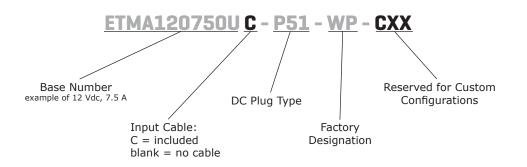




MODEL	output voltage	output current max	output power max	ripple and noise ¹ max	efficiency level
	(Vdc)	(A)	(W)	(mVp-p)	
ETMA120750U	12	7.5	90	120	V
ETMA135667U	13.5	6.67	90	135	V
ETMA150667U	15	6.67	100	150	V
ETMA190580U	19	5.8	110	190	V
ETMA200550U	20	5.5	110	200	V
ETMA240460U	24	4.6	110	240	V

Notes: 1. At full load, 100 ~ 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
current	at 90 Vac, 50 Hz			2	А
inrush current	at 230 Vac, cold start			70	А
no load power consump	tion			0.3	W

OUTPUT

parameter	conditions/description	min	typ	max	units
total regulation	19, 20, 24 V outputs all other outputs		±3 ±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	%
	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			ΜΩ ΜΩ	
safety approvals	UL/cUL UL 60601-1, EN 60601-1, CB IEC 60601-1					
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	max	units
operating temperature		0		40	°C
storage temperature		-10		70	°C
humidity	non-condensing	10		90	%

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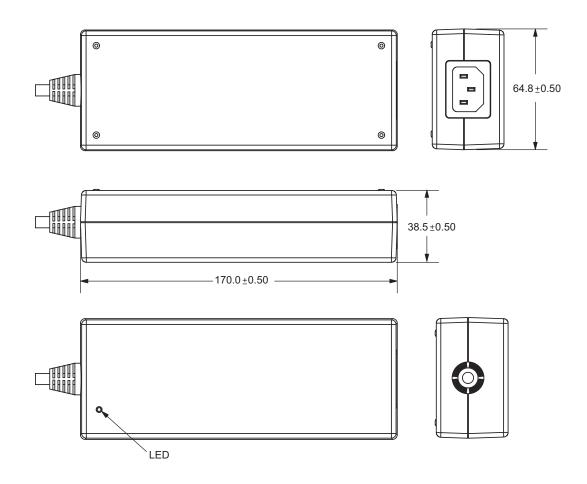
MECHANICAL

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

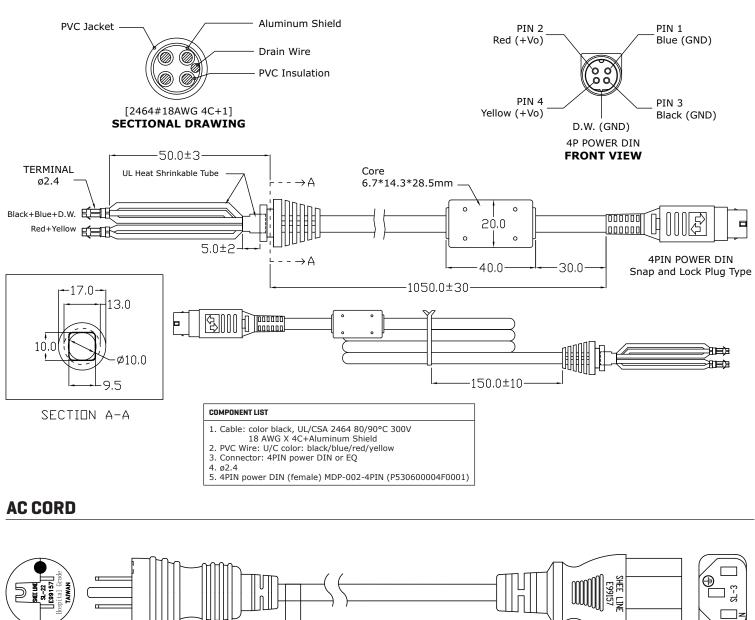
MECHANICAL DRAWING

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units: mm



DC CORD





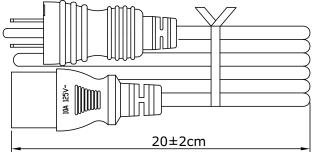
(IEC 320 C13) 183±5cm



SPECIFICATION:

- 1) Length: 1.83m
- 2) Color: black

- 3) Plug: SL-22 (A)10 (V)125 Approval: UL/cUL
- Connector: SL-3(A)10 (V)125 Approval: UL/cUL 4)
- 5) Cable: SJT 18AWG/3C Approval: UL/CSA



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.



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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 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.