CUI INC®

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

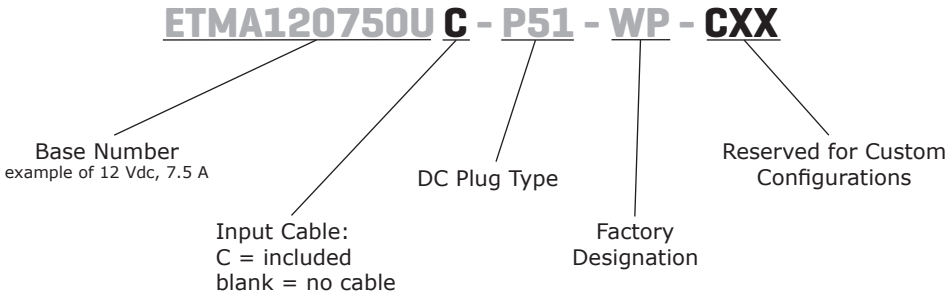
FEATURES

- up to 110 W power
- universal input (90~264 Vac)
- single regulated output from 12~24 V
- over voltage, overload and short circuit protections
- 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
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	A
inrush current	at 230 Vac, cold start			70	A
no load power consumption				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				
over voltage protection	13.5 V output 24 V output all other outputs	118 113 120		150 150 150	% % %
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	medical UL/cUL UL 60601-1, EN 60601-1, CB IEC 60601-1 4th edition				
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

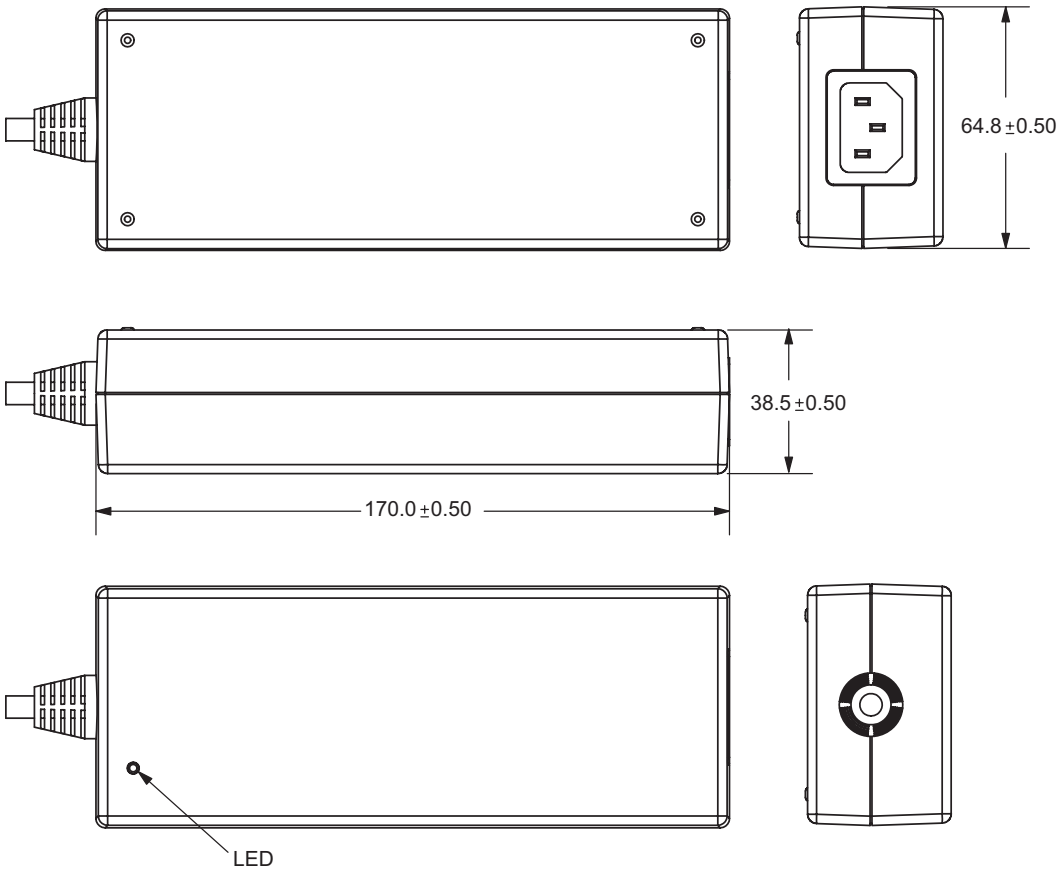
parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-10		70	°C
humidity	non-condensing	10		90	%

MECHANICAL

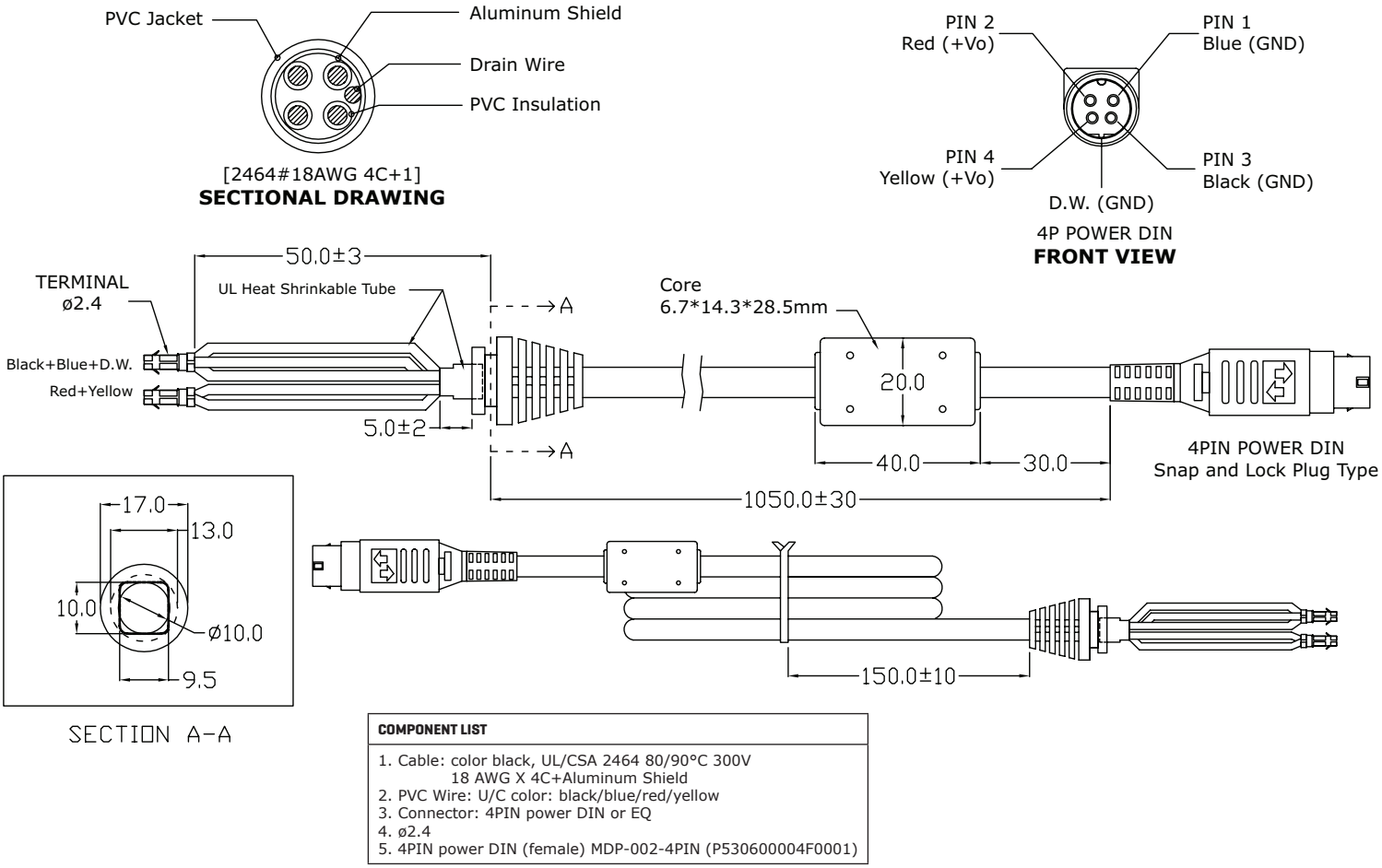
parameter	conditions/description	min	typ	max	units
dimensions	6.69 x 2.55 x 1.52 (170 x 64.8 x 38.5 mm)				inch
input plug	IEC320 / C14				
weight			0.61		kg

MECHANICAL DRAWING

units: mm

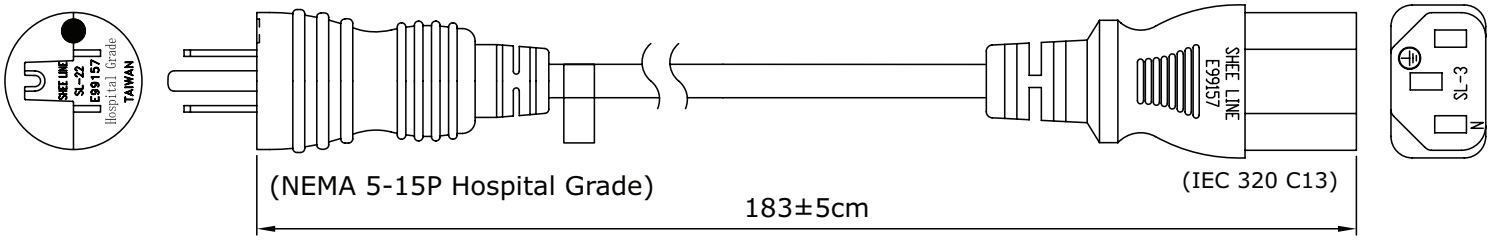


DC CORD



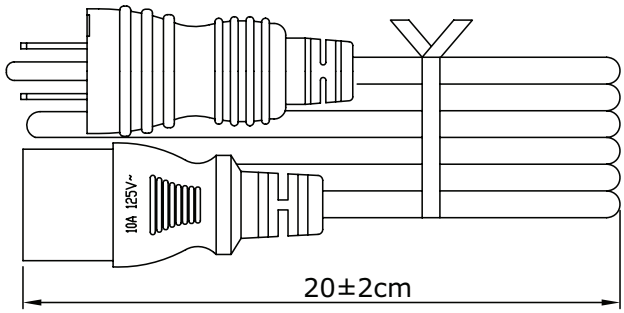
COMPONENT LIST
1. Cable: color black, UL/CSA 2464 80/90°C 300V 18 AWG X 4C+Aluminum Shield 2. PVC Wire: U/C color: black/blue/red/yellow 3. Connector: 4PIN power DIN or EQ 4. ø2.4 5. 4PIN power DIN (female) MDP-002-4PIN (P530600004F0001)

AC CORD



SPECIFICATION:

1) Length: 1.83m
2) Color: black
3) Plug: SL-22 (A)10 (V)125 Approval: UL/cUL
4) Connector: SL-3(A)10 (V)125 Approval: UL/cUL
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
1.03	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 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.

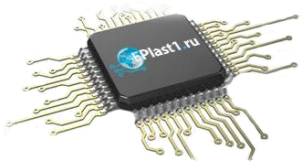
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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