



SERIES: ETMA 30W | **DESCRIPTION:** MEDICAL AC-DC POWER SUPPLY

FEATURES

- up to 30 W power
- universal input (90~264 Vac)
- single regulated output from 5~24 Vdc
- over voltage and short circuit protections
- full medical safety approvals
- 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 |
|--------------|-------------------------|---------------------------|-------------------------|--|------------------|
| ETMA050400UD | 5 | 4 | 20 | 50 | V |
| ETMA090300UD | 9 | 3 | 27 | 90 | V |
| ETMA120250UD | 12 | 2.5 | 30 | 120 | V |
| ETMA150200UD | 15 | 2 | 30 | 150 | V |
| ETMA180165UD | 18 | 1.65 | 30 | 180 | V |
| ETMA240125UD | 24 | 1.25 | 30 | 240 | V |

1. at full load, 100 ~ 240 Vac input, 20 MHz bandwidth oscilloscope, each output terminated with a 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 |
| input current | | | | 0.6 | A |
| inrush current | at 240 Vac | | | 50 | A |
| no load power consumption | | | | 0.3 | W |

OUTPUT

| parameter | conditions/description | min | typ | max | units |
|------------------------------|------------------------|-----|-------|-----|-------|
| line regulation ¹ | | | ±1 | | % |
| load regulation ² | 5 Vdc output | | ±6 | | % |
| | 9 Vdc output | | ±4 | | % |
| | 12, 15 Vdc outputs | | ±3 | | % |
| | 18, 24 Vdc outputs | | ±2 | | % |
| voltage accuracy | | | ±2 | | % |
| hold-up time | at 115 Vac | | 16 | | ms |
| switching frequency | | | 70 | | 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 |
|--------------------------|--------------------------|
| 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) | | | | |
| MTBF | as per MIL-HDBK-217F, 115 Vac, 25 °C | 300,000 | | | 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 | 110 x 50 x 30 (4.331 x 1.969 x 1.181 inch) | | | | mm |
| input plug | IEC320 / C8 | | | | |
| weight | | | 220 | | 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 |
|--------------|-------------|-------------------|
| ETMA050400UD | 18 AWG | 720 mm \pm 50 |
| ETMA090300UD | 18 AWG | 1,220 mm \pm 50 |
| ETMA120250UD | 18 AWG | 1,800 mm \pm 50 |
| ETMA150200UD | 18 AWG | 1,800 mm \pm 50 |
| ETMA180165UD | 18 AWG | 1,800 mm \pm 50 |
| ETMA240125UD | 18 AWG | 1,800 mm \pm 50 |



REVISION HISTORY

| rev. | description | date |
|------|-----------------------------|------------|
| 1.0 | initial release | 12/02/2011 |
| 1.01 | updated P7/P7R B dimension | 03/23/2012 |
| 1.02 | V-Infinity branding removed | 08/21/2012 |
| 1.03 | updated datasheet | 07/10/2015 |

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.

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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);
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- 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.);

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- 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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