

**JASPER
ELECTRONICS**

*Innovative Specialty
DC Power Systems*

MD72-4 Series Medical Desktop Type

60-72W Max



GENERAL OVERVIEW

Jasper's Medical Power Supplies are available from 4.5W-310W, with both fixed and detachable I/O cords options. Standard and Custom configuration Medical IEC Adapters are also available. Please see below for specifications and available options.

FEATURES INCLUDE:

- CEC Compliance
- RoHS Compliance
- IEC320 C14, C8, C6
- Over Voltage Protective Installation
- Short Circuit Protective Installation
- Protection Type: Latch-Off
- MTBF > 30,000 Hours

MD72-4 x Y-vv PP

x: Case Type: 1. C14 2. C8 3. C6

Y: Output Range (see table below, select letters A-D)

vv: Specified Output Voltage, ie 24 is 24VDC

PP: Connector Type, ie 01 for Jasper standard DC cable or please refer to the appendix page



CONTACT

1580 No. Kellogg Dr.
Anaheim, California, 92807

(714) 917-0749

www.jasperelectronics.com
sales@jasperelectronics.com



ISO9001:2015



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| MODEL CHART | | | | | | | |
|--------------|----------------------|---------------------|---------------|---------------|-----------------|-----------------|----------------|
| Model Number | Max Output Power (W) | Output Voltage (Vo) | Min Load (Io) | Max Load (Io) | Load Regulation | Line Regulation | Ripple & Noise |
| MD72-4-xA | 72 W | 12-17V | 0A | 6A | ±5% | ±1% | 250mV |
| MD72-4-xB | 72 W | 18-24V | 0A | 4A | ±5% | ±1% | 250mV |
| MD72-4-xC | 60 W | 12-17V | 0A | 5A | ±5% | ±1% | 250mV |
| MD72-4-xD | 60 W | 18-24V | 0A | 3.33A | ±5% | ±1% | 250mV |

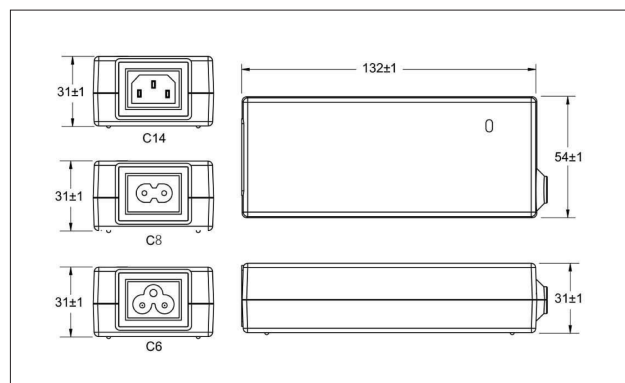
Note:

1. Ripple & Noise is measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 0.1 uf ceramic capacitor & parallel with 47uF aluminum capacitor at full load and nominal line.
2. Line regulation is defined by changing $\pm 10\%$ of input voltage from nominal line at rated load.
3. Max. Output Power (W) $\geq V_o \times I_o$

| INPUT SPECIFICATIONS | |
|---|---------------------------|
| Input Range | 100-240VAC |
| Frequency | 50-60Hz |
| Input Current | $\leq 2A$ |
| Inrush Current | $\leq 90A$ at Cold Start, |
| Efficiency | 85% Typ. |
| Hold-Up Time | $\geq 8.3mS$ |
| Turn On Time | $\leq 3S$ |
| OUTPUT SPECIFICATIONS | |
| Over Voltage Protection | Latch Off |
| Short Circuit Protection | Auto Recovery |
| ENVIRONMENTAL SPECIFICATIONS | |
| Operating Temperature | 0 to 40°C |
| Storage Temperature | -20°C to 85°C |
| Storage Humidity | 5% to 95% |
| SAFETY | |
| UL, cUL, UL60601, TUV / RH, EN / IEC 60601, CB, CE, FCC | |

**Specifications subject to change without notice.*

MECHANICAL DRAWING



Case Size: 132L x 54W x 31H (mm)
AC Inlet: C14, C8, C6
Weight: 320g

INNOVATIVE SPECIALTY DC POWER SYSTEMS

Standard and Custom Power Supplies from 5W to 10KW

TRAFFIC CONTROL POWER SUPPLIES



- 70-400+ Watts / 120 and 220 VAC Models Available
- CALTRANS TEES, NYSDOT, CDOT, GDOT Compliant for 332, 334, 336, 342, 344, and 346 Series cabinets
- RoHS and NEMA Compliant
- Custom labeling and barcoding available
- Ruggedization against shock / vibration / humidity available

CUSTOM POWER DISTRIBUTION ASSEMBLIES (PDAs)



- Compliant with TEES 2020
- 1U smaller than the PDA2-LX and PDA3-LX
- User accessible slots as specified
- Custom labeling and barcoding available
- Ruggedization against shock / vibration / humidity available

COMPACT PCI



- AC or DC input, 175W - 500W DC output, active PFC
- 3U x 8HP, 6U x 8HP sizes
- PICMG 2.11 compliant, UL/CSA, NEMKO/TUV/CE certified, ROHS compliant
- Ruggedization against shock/ vibration/ humidity optional

Primary Applications: Industrial Computing, Military, Satellite Comm, Test, Transportation, Telecom, Aerospace

SPECIALTY HOT-SWAPPABLE POWER SUPPLIES



- 200-1500W, Universal Input, 5-54VDC Output
- Hot Swap. N+1, 90+% Efficiency
- 1U Form Factors
- 30+ Variations for Various Applications Including Nuclear
- Ruggedization against shock/ vibration/ humidity optional

Primary Applications: Medical Equipment, Military, Test, Automotive, Computing, Audio, Sensitive Electronics

RACK POWER SYSTEMS



- 200W-1500W, 2-8 slots, single or mixed output voltages, up to 10KW total
- Single, dual, or individual unit AC or DC input
- Internally or externally redundant DC outputs
- Standard 19" and 23" size or user-specified configurations also available
- Ruggedization against shock/ vibration/ humidity optional

Primary Applications: Medical Equipment, Military, Test, Automotive, Computing, Audio, Sensitive Electronics

CUSTOMS & MODIFIED STANDARDS



- 75W-2KW
- Single to 7 outputs
- Designed and built to custom or semi-custom specifications
- Ruggedization against shock/ vibration/ humidity optional
- Custom electrical specs, chassis, paint, labeling, connectors, interface all available

Primary Applications: Medical Equipment, Military, Test, Automotive, Computing, Audio, Sensitive Electronics

LOW NOISE CONVECTION / CONDUCTION COOLED POWER SUPPLIES



- 200W-500W, 90—264VAC full range input with 12-54 VDC Output
- Wide operating temperature range / high efficiency
- Small form factors
- Ruggedization against shock/ vibration/ humidity optional

Primary Applications: Medical Equipment, Military, IT, Sensitive Electronics

MEDICAL ADAPTERS



- 6W-250W, Efficiency levels V & VI
- Desktop, Wall-mount, and Interchangeable AC plug types
- Large selection of output connectors – additional cable lengths available
- UL60601 (medical) approved adapters available
- Ruggedization against shock/ vibration/ humidity optional

