JASPER ELECTRONICS

*Innovative Specialty DC Power Systems*

## CONTACT

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# MD250 Series
# Medical Desktop Type
## 160-250W 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:

- Active PFC Function
- DoE Compliance
- RoHS Compliance
- Over Voltage Protective Installation
- Over Current Protective Installation
- Over Temperature Protective Installation
- Short Circuit Protective Installation
- LED Indication
- MTBF > 50,000 Hours

## MD250-x Y-vv PP

x: Inlet Type: 1. C14 2. C8 3. C6 6. C18

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

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

RoHS compliant

Rev B-June-15-2026

| MODEL CHART | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Model Number** | **Max Output Power (W)** | **Output Voltage (Vo)** | **Min Load (Io)** | **Max Load (Io)** | **Load Regulation** | **Line Regulation** | **Ripple & Noise** |
| **MD250-xA** | 160 W | 12-18V | 0A | 13.33A | ±5% | ±1% | 300mV |
| **MD250-xB** | 180 W | 12-18V | 0A | 15.00A | ±5% | ±1% | 300mV |
| **MD250-xC** | 180 W | 19-28V | 0A | 9.47A | ±5% | ±1% | 350mV |
| **MD250-xD** | 200 W | 12-18V | 0A | 16.66A | ±5% | ±1% | 300mV |
| **MD250-xE** | 200 W | 19-28V | 0A | 10.52A | ±5% | ±1% | 350mV |
| **MD250-xF** | 200 W | 32-42V | 0A | 6.25A | ±5% | ±1% | 450mV |
| **MD250-xG** | 200 W | 44-56V | 0A | 4.54A | ±5% | ±1% | 600mV |
| **MD250-xH** | 220 W | 12-18V | 0A | 18.33A | ±5% | ±1% | 300mV |
| **MD250-xJ** | 220 W | 19-28V | 0A | 11.57A | ±5% | ±1% | 350mV |
| **MD250-xK** | 220 W | 32-42V | 0A | 6.87A | ±5% | ±1% | 450mV |
| **MD250-xL** | 220 W | 44-56V | 0A | 5A | ±5% | ±1% | 600mV |
| **MD250-xM** | 230 W | 19-28V | 0A | 12.10A | ±5% | ±1% | 350mV |
| **MD250-xN** | 230 W | 32-42V | 0A | 7.18A | ±5% | ±1% | 450mV |
| **MD250-xP** | 230 W | 44-56V | 0A | 5.22A | ±5% | ±1% | 600mV |
| **MD250-xQ** | 250 W | 19-28V | 0A | 13.15A | ±5% | ±1% | 350mV |
| **MD250-xR** | 250 W | 32-42V | 0A | 7.81A | ±5% | ±1% | 450mV |
| **MD250-xS** | 250 W | 44-56V | 0A | 5.68A | ±5% | ±1% | 600mV |

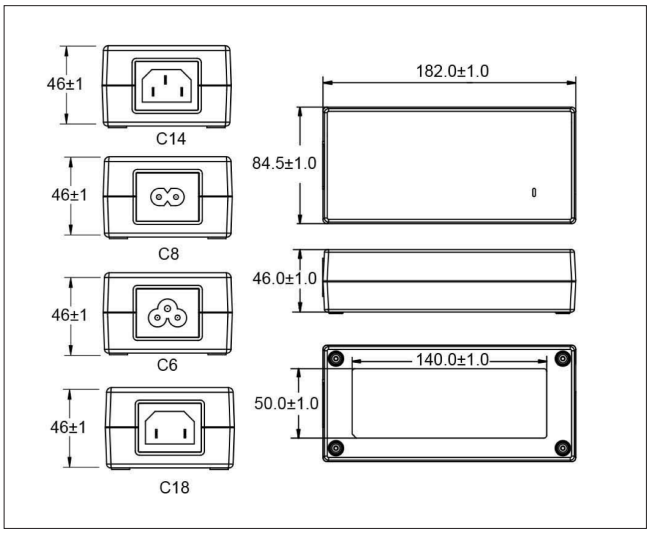
**Note:**

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 ± 10% of input voltage from nominal line at rated load.
3. Max. Output Power (W) ≥Vo x Io

| INPUT SPECIFICATIONS | |
|---|---|
| **Input Range** | 100-240VAC |
| **Frequency** | 50-60Hz |
| **Input Current** | ≤3.5 to 2.5A |
| **Inrush Current** | ≤150A at Cold Start, |
| **Efficiency** | Meet CEC Level V, VI (DoE) |
| **Hold-Up Time** | ≥8.3mS |
| **Turn On Time** | ≤3S |
| **OUTPUT SPECIFICATIONS** | |
| **Over Voltage Protection** | Latch Off |
| **Short Circuit Protection** | Auto Recovery |
| **Over Current Protection** | Auto Recovery |
| **Over Temperature Protection** | Latch Mode |
| **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 EN60601, CB 60601, CE, FCC | |

**Specifications subject to change without notice.*

## MECHANICAL DRAWING




Case Size: 182L x 84.5W x 46H (mm)

AC Inlet: C14, C8, C6, C18

Weight: 1000g

Jasper Electronics

# 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

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