JASPER ELECTRONICS

Innovative Specialty DC Power Systems

MD100-10 Series Medical Desktop Type

80-100W 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
- IEC320 C14, C8, C6, C18
- Over Voltage Protective Installation
- Over Current Protective Installation
- Short Circuit Protective Installation
- LED Indication
- MTBF > 100,000 Hours

MD100-10 x Y-vv PP

- x: Case Type: 1. C14 2. C8 3. C6 6. C18
- Y: Output Range (see table below, select letters C-M)
- 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



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MODEL CHAR	Г	•					
Model Number	Max Output Power (W)	Output Voltage (Vo)	Min Load (lo)	Max Load (lo)	Load Regulation	Line Regulation	Ripple & Noise
MD100-10-xC	84 W	12-18V	0A	7.00A	±5%	±1%	270mV
MD100-10-xD	80 W	18-24V	0A	4.44A	±5%	±1%	360mV
MD100-10-xE	90 W	18-24V	0A	5.00A	±5%	±1%	360mV
MD100-10-xF	90 W	12-18V	0A	7.50A	±5%	±1%	270mV
MD100-10-xG	80 W	32-42V	0A	2.50A	±5%	±1%	630mV
MD100-10-xH	80 W	44-56V	0A	1.81A	±5%	±1%	840mV
MD100-10-xJ	90 W	32-42V	0A	2.81A	±5%	±1%	630mV
MD100-10-xK	90 W	44-56V	0A	2.04A	±5%	±1%	840mV
MD100-10-xL	100 W	32-42V	0A	3.12A	±5%	±1%	630mV
MD100-10-xM	100 W	44-56V	0A	2.27A	±5%	±1%	840mV

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 Vo x lo

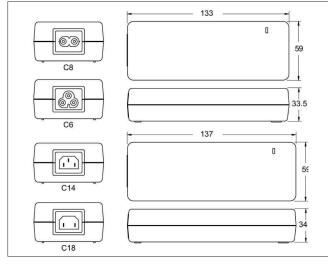
INPUT SPECIFICATIONS					
Input Range	100-240VAC				
Frequency	50-60Hz				
Input Current	≤2.5A				
Inrush Current	≤100A at Cold Start,				
Efficiency	Meet CEC Level V, VI (DoE)				
Hold-Up Time	≥8.3mS				
Turn On Time	≤35				
OUTPUT SPECIFICATIONS					
Over Voltage Protection	Auto Recovery or Latch Off				
Short Circuit Protection	Auto Recovery				
Over Current Protection	Auto Recov ery				
Over Temperature Protection	Optional				
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature	0 to 40°C				
Storage Temperature	-20°C to 85°C				
Storage Humidity	5% to 90%				
SAFETY					
UL/cUL, UL60601, TUV EN60601, CB 60601, CE, FCC					

*Specifications subject to change without notice.





MECHANICAL DRAWING



Case Size: 132.8L x 58.8W x 33.4H (mm) for AC Inlet C8, C6 136.5L x 58.8W x 34H (mm) for AC Inlet C14, C18

Weight: 420g







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

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

Jasper

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

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



ASR ISO9001:2015

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