

Innovative Specialty DC Power Systems



1580 No. Kellogg Dr. Anaheim, California, 92807

www.jasperelectronics.com

sales@jasperelectronics.com

(714) 917-0749

# **MI12 Series Medical Interchangeable Type**

12W 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:**

- DoE Compliance
- RoHS Compliance
- Over Voltage Protective Installation
- Short Circuit Protective Installation
- Protection Type: Auto Recovery
- MTBF > 100,000 Hours

#### MI12 X Y Z T-vv PP

- x: Output Range (see table below, select letters A-D)
- y: Case Type (V) Vertical enclosure dimension
- z: AC Plug Type: R Interchangeable contain plug (U) USA (C) China (E) EU (K) UK (A) SAA (S) South Africa
- T: Output Type U (USB), S (SR)
- vv: Specified Output Voltage, ie 12 is 12VDC

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

















MODEL CHART							
Model Number	Max Output Power (W)	Output Voltage (Vo)	Min Load (lo)	Max Load (Io)	Load Regulation	Line Regulation	Ripple & Noise
MI12A	12 W	5-8V	0A	2.4A	±5%	±1%	100mV
MI12B	12 W	9-11V	0A	1.33A	±5%	±1%	180mV
MI12C	12 W	12-17V	0A	1.0A	±5%	±1%	250mV
MI12D	12 W	18-24V	OA	0.66A	±5%	±1%	350mV

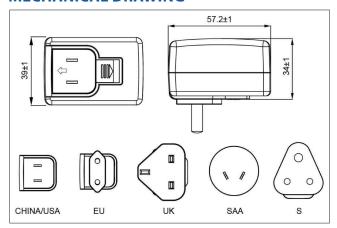
#### Note:

- 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. Power 0N) = Vo x lo

INPUT SPECIFICATIONS					
Input Range	100-240VAC				
Frequency	50-60Hz				
Input Currency	≤1.0A-0.5A				
Inrush Current	≤60A				
Efficiency	Meet CEC Level VI (DoE)				
Hold-Up Time	≥8.3mS				
Turn On Time	≤3\$				
OUTPUT SPECIFICATIONS					
Output Voltage	Auto Recovery				
Over Current Protection	Auto Recovery				
Short Circuit Protection	Auto Recovery				
GENERAL SPECIFICATIONS					
Operating Temperature	0 to 40°C				
Storage Temperature	-20°C to 85°C				
Operating Humidity	10% to 90%				
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: 57.2L x 39W x 34H (mm)

AC Plug: (U) USA Pin (C) China Pin (E) EU (K) UK (A) SAA (S) South Africa

Weight: 70g





# 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





