

**JASPER
ELECTRONICS**

*Innovative Specialty
DC Power Systems*

MI24 Series

Medical Interchangeable Type

15-24W 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
- Over Current Protective Installation
- Short Circuit Protective Installation
- Protection Type: Recovery
- MTBF > 100,000 Hours

MI24 X Y R T-vv PP

x: Output Range (see table below, select letters A-N)

y: Case Type (V) Vertical

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

T: Output Type: S (SR)

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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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
EM1019AVRS	15W	5-8V	0A	3.0A	±5%	±1%	100mV
EM1019BVRS	20 W	9-13V	0A	2.0A	±5%	±1%	180mV
EM1019CVRS	20 W	14-19V	0A	1.42A	±5%	±1%	200mV
EM1019DVRS	20 W	20-27V	0A	1.0A	±5%	±1%	250mV
EM1019EVRS	20 W	28-35V	0A	0.71A	±5%	±1%	280mV
EM1019FVRS	20 W	36-48V	0A	0.55A	±5%	±1%	360mV
EM1019GVRS	18 W	5-8V	0A	3.0A	±5%	±1%	100mV
EM1019HVRS	24 W	9-13V	0A	2.0A	±5%	±1%	180mV
EM1019JVRS	24 W	14-19V	0A	1.71A	±5%	±1%	200mV
EM1019KVRS	24 W	20-27V	0A	1.2A	±5%	±1%	250mV
EM1019MVRS	24 W	28-35V	0A	0.85A	±5%	±1%	280mV
EM1019NVRS	24 W	36-48V	0A	0.66A	±5%	±1%	360mV

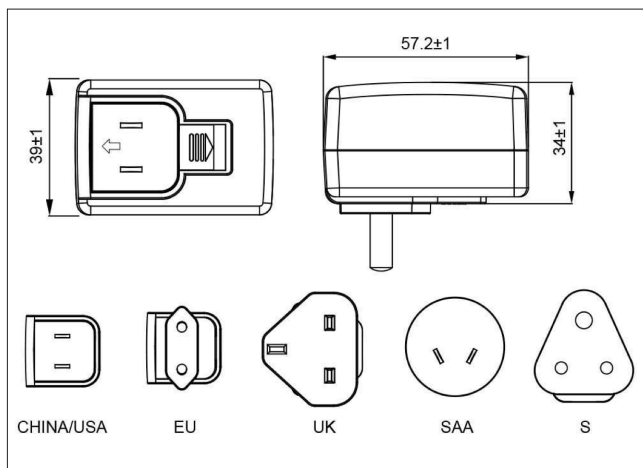
Note:

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. Power 0N) = Vo x Io

INPUT SPECIFICATIONS	
Input Range	100-240VAC
Frequency	50-60Hz
Input Current	≤0.8A
Inrush Current	≤80A at 230VAC at Cold Start, Maximum Load
Turn On Time	≤3S
OUTPUT SPECIFICATIONS	
Output Voltage Protection	Auto Recovery
Over Current Protection	Auto Recovery
Short Circuit Protection	Auto Recovery
Efficiency	Meet CEC Level VI (DoE)
No Load Power	≤0.1W
GENERAL 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: 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: 150g

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

