JASPER ELECTRONICS

Innovative Specialty DC Power Systems

CONTACT

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(714) 917-0749

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Universal Input Harmonic Correction (PFC) AC / DC Medical External Desktop Switching Adapter

90-106 Watts Green Power Single Output

GENERAL OVERVIEW

Jasper's External Power Supplies are available from 5W-150W, with single and multiple outputs. Fixed and detachable I/O cords are available, as are Standard and Custom configuration models. Please feel free to contact us for any further information about your application so we can offer a solution!

FEATURES INCLUDE:

- Accomodate Universal AC Input
- Meet Medical Standards IEC60601-1
- EMI Meet EN 55011 / FCC Class B
- No Load Power Consumption < 0.21W
- Energy Efficiency Level VI
- CE Marking Compliance

Rev B-June-14-2026

INPUT SPECIFICATIONS	
Input Voltage	Typical 90-264VAC
Input Connector	3 Pole AC inlet IEC320-C6(DT7L)/ 2 Pole AC inlet IEC320-C8 (DT8)
Input Frequency	47-63Hz
Inrush Current	7.2A at 230VAC 50Hz
Input Current	Typical 1.044A at 115VAC, Typical 0.543A at 230VAC
Dielectric Withstand	Meet IEC60601-1
EMI	Meet EN55011 FCC Class B
Hold-Up Time	Typical 22mS at 115VAC 43mS at 230VAC
Power Factor & Harmonic Correction	Meet IEC61000-3-2, PF typical 0.98 at full load
Earth Leakage Current	Less than 0.13 mA
No Load Power	Typical 0.21W at 115VAC and 230VAC
OUTPUT SPECIFICATIONS	
Output Voltage	See Ratings Chart
Output Current	See Ratings Chart
Output Wattage	Typical 90-106 Watts
Output Connector & Cord	Optional
Line Regulation	Typical 0.3%
Load Regulation	Typical ±2-3%
Noise & Ripple	Typical 1% peak to peak
OVP	Built-in by latch circuit
Adjustability	Not Available
Over Temperature Protection (OTP)	Installed
Overload Protection (OLP)	Fully protected against ouput overload and short circuit. OLP set at about 110-135% rating output wattage. Consult the factory for OLP setting.
GENERAL SPECIFICATIONS	
Efficiency	Typical 88-91% (various with the output voltage)
Switching Frequency	60KHz
Circuit Topology	Fixed Flyback circuit
Transient Response	Output voltage returns in less than 1mS following a 25% load change.
Safety Standard	Meet Medical standards UL60601-1 / EN 60601-1 Class I or II
Operating Temperature	-20°C to +40°C
Cooling	Free air convection
Storage Temperature	-40°C to +85°C
Construction	Impact resistant plastic enclosure case
Power Density	4.9-5.8 Watts. / Cubic Inch.
Weight	400.0g (14.18oz)

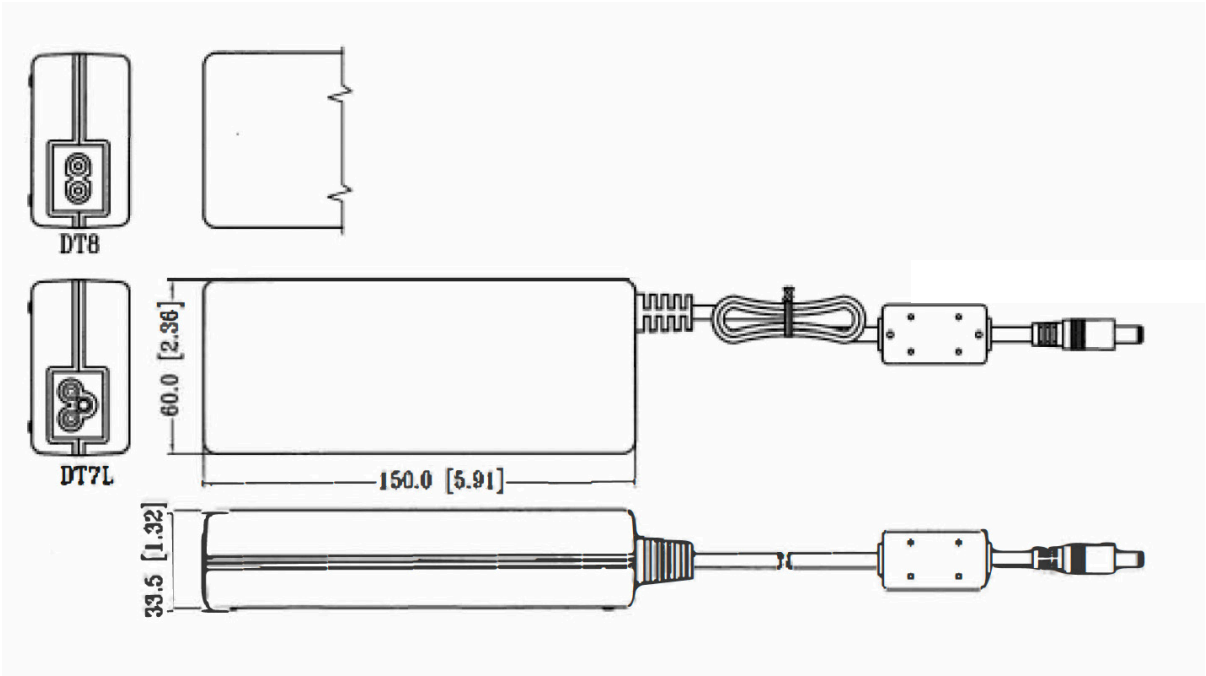
**Specifications subject to change without notice.*

Note:

1. All measurements are at nominal input, full load, and +25°C unless otherwise specified.
2. Load regulation is measured at 115Vac or 230Vac in percentage to indicate the change in output voltage as the load varied from half load to full load (±%).
3. The exact obtainable load regulation depends upon the output cord selected and load current.
4. Due to requests in market and advances in technology, specifications subject to change without notice.

MODEL CHART			
Model Number	**AC Inlet**	**O/P Voltage**	**O/P Current**
HEMP106G-2-7500	IEC320-C6 (DT7L)	12.0VDC	7.5A
HEMP106G-3-6500	IEC320-C6 (DT7L)	15.0VDC	6.5A
HEMP106G-7-5600	IEC320-C6 (DT7L)	19.0VDC	5.6A
HEMP106G-5-4400	IEC320-C6 (DT7L)	24VDC	4.4A
HEMP106G-(36)-2900	IEC320-C6 (DT7L)	36VDC	2.9A
HEMP106G-8-2200	IEC320-C6 (DT7L)	48VDC	2.2A

MECHANICAL DRAWING



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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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