



Jasper Electronics

HARMONIC CORRECTION (PFC) AC/DC MEDICAL APPLICATION EXTERNAL DESKTOP ADAPTER UNIVERSAL INPUT SINGLE OUTPUT 100 WATTS GREEN POWER SWITCHING POWER SUPPLIES HEMP100G SERIES



FEATURES:

- ACCOMMODATE UNIVERSAL AC INPUT
- DESKTOP IEC320-3PL/2P AC RECEPTACLE
- GREEN POWER DESIGN
- MEET MEDICAL STANDARDS
EN60601-1/UL2601-1
- EMI MEET EN55011/FCC CLASS B
- MEET UNIVERSAL SAFETY STANDARDS

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: 90-264Vac typical.
Power Factor Correction (PFC) installed.

Input Connector: IEC320-3PL/2P AC receptacle.

Input Frequency: 50/60Hz.

Inrush Current: 7.2Arms @230Vac 50Hz.

Input Current: 0.976A@115Vac/0.496A@230Vac

Dielectric Withstand: Meet IEC60601-1.

EMI: Meet EN55011/FCC Class B.

Hold-up Time: 22mS @115Vac/ 43mS@230Vac typical.

Green Power: 0.37W @ 132Vac/ 0.50W @264Vac.

Earth Leakage: Less than 0.126mA.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.

Output Current: See Ratings Chart.

Output Wattage: 100 Watts.

Output Connector: Optional.

Line Regulation: 0.3 % typical.

Load Regulation: ± 2 % typical.

Tolerance: ±4%.

Noise & Ripple: 1% typical peak to peak.

OVP: Built-in. (Latch)

Adjustability: Not available.

Over Temp. Protection (OTP): Installed.

Overload Protection (OLP):
Fully protected against output overload and short circuit.
OLP set at about 110-135% rating output wattage.
Consult the factory for OLP setting.

GENERAL SPECIFICATION

Efficiency: 88-90% typical.

Switching Frequency: 40-65 KHz.

Circuit Topology: Fixed Flyback Circuit.

Transient Response: Output voltage returns in less than 1mS following a 25% load change.

Safety Standard: Meet Medical standards UL2601-1 / EN60601-1 Class I or II. Harmonic Current Emission, EN61000-3-2 compliance.

Operating Temperature: 0 to +25/35/40°C without derating. (various with output voltage)

Storage Temperature: -20 to +85°C.

Temperature Coefficient: 0.04%/°C typical.

Cooling: Free air convection.

Construction: Impact resistant plastic enclosure case.

Power Density: 18.384 Watts/Cubic inch.

Desktop Format.

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. Upper data are for 6 ft. (2 m)cord AWG#18 wires.

(4) Due to requests in market and advances in technology, specifications subject to change without notice.



In application

OUTPUT VOLTAGE/CURRENT RATINGS CHART

SINGLE OUTPUT

MODEL NO.	AC PLUG	O/P VOLTAGE	O/P CURRENT
HEMP100G-S120070-7L	DT7L	12Vdc	7.0A
HEMP100G-S120070-8	DT8	12Vdc	7.0A
HEMP100G-S150062-7L	DT7L	15Vdc	6.2A
HEMP100G-S150062-8	DT8	15Vdc	6.2A
HEMP100G-S190053-7L	DT7L	19Vdc	5.3A
HEMP100G-190053-8	DT8	19Vdc	5.3A
HEMP100G-240042-7L	DT7L	24Vdc	4.2A
HEMP100G-240042-8	DT8	24Vdc	4.2A

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 400.0g (14.18 Oz.)

