

## **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 ENERGY STAR(CEC) LVEVL IV.
- MEET MEDICAL STANDARDS EN60601-1/UL60601-1
- EMI MEET EN55011/FCC CLASS B

### **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:**  $\pm 2$  % typical.

**Tolerance:**  $\pm 4$ %.

**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 UL60601-1 / 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:** 4.56-5.5 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 ( $\pm$ %).

(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.

# OUTPUT VOLTAGE/CURRENT RATINGS CHART

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## SINGLE OUTPUT

MODEL NO.	AC PLUG	O/P VOLTAGE	O/P CURRENT
HEMP100G-S120650-7L	DT7L	12Vdc	6.5A
HEMP100G-S120650-8	DT8	12Vdc	6.5A
HEMP100G-S150620-7L	DT7L	15Vdc	6.2A
HEMP100G-S150620-8	DT8	15Vdc	6.2A
HEMP100G-S190530-7L	DT7L	19Vdc	5.3A
HEMP100G-S190530-8	DT8	19Vdc	5.3A
HEMP100G-S240420-7L	DT7L	24Vdc	4.2A
HEMP100G-S240420-8	DT8	24Vdc	4.2A
HEMP100G-S360270-7L	DT7L	36Vdc	2.7A
HEMP100G-S360270-8	DT8	36Vdc	2.7A
HEMP100G-S480200-7L	DT7L	48Vdc	2.0A
HEMP100G-S480200-8	DT8	48Vdc	2.0A
HEMP100G-S580170-7L	DT7L	58Vdc	1.7A
HEMP100G-S580170-8	DT8	58Vdc	1.7A

**MECHANICAL DIMENSIONS: MM [INCHES]**

**WEIGHT: 400.0g (14.18 Oz.)**

