

# **HiTRON**

## **UNIVERSAL INPUT AC-DC MEDICAL APPLICATION EXTERNAL DESKTOP SWITCHING ADAPTER 66-72 WATTS GREEN POWER SINGLE OUTPUT HEMG76 SERIES**



### **FEATURES:**

- ACCOMMODATE UNIVERSAL AC INPUT
- 3 POLE/2 POLE AC INLET IEC320-C14/C8
- MEET MEDICAL STANDARDS IEC60601-1
- NO LOAD POWER CONSUMPTION <0.2W
- ENERGY EFFICIENCY LEVEL VI
- EMI MEET EN 55011 / FCC CLASS B
- CE MARKING COMPLIANCE

### **SPECIFICATION**

#### **INPUT SPECIFICATION**

**Input Voltage:** Typical 90-264Vac.  
**Input Connector:** 3 pole AC inlet IEC320-C14(DT7) /  
 2 pole AC inlet IEC320-C8(DT8).  
**Input Frequency:** 47-63Hz.  
**Inrush Current:** Typical 13.1Arms at 230Vac.  
**Input Current:** Typical 1.2A at 115Vac, 0.75A at 230Vac.  
**Dielectric Withstand:** Meet IEC60601-1.  
**EMI:** Meet EN55011 FCC Class B.  
**Hold-up Time:** Typical 19mS at 115Vac,  
 Typical 96mS at 230Vac.  
**Over Temp. Protection:** NTC.  
**Earth Leakage Current (Class I) :** Less than 0.21 mA.  
**Enclosure Leakage Current (Class I & II):** Less than  
 0.09mA.  
**No Load Power:** Less than 0.2W at 230Vac.

#### **OUTPUT SPECIFICATION**

**Output Voltage:** See Ratings Chart.  
**Output Current:** See Ratings Chart.  
**Output Wattage:** Typical 66-72 Watts.  
**Output Connector & Cord:** Optional.  
**Line Regulation:** Typical 1%.  
**Load Regulation:** Typical  $\pm 3\%$ .  
**Noise & Ripple:** Typical 1% peak to peak.  
**OVP:** Built-in by latch circuit.  
**Adjustability:** Factory set.  
**Over Current Protection (OCP):**  
 Fully protected against output overload and short circuit.  
 OLP set at about 125-130% rating output wattage.  
 Consult the factory for OLP setting.

#### **GENERAL SPECIFICATION**

**Efficiency:** Typical 88-90% at 230Vac.  
 (various with output voltage)  
**Switching Frequency:** Typical 65KHz.  
**Circuit Topology:** Fixed Frequency flyback circuit.  
**Transient Response:** Output voltage returns in less than  
 1mS following a 25% load change.  
**Safety Standard:** Medical standards IEC60601-1/  
 EN60601-1/ UL60601-1.

**Operating Temperature:** -25°C to +40°C.  
**Storage Temperature:** -40°C to +85 °C.  
**Cooling:** Free air convection.  
**Construction:** Impact resistant thermo-plastic  
 enclosure case.  
**Power Density:** 4.31-4.7 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.  
 (4) Due to requests in market and advances in technology, specifications subject to change without notice.

For the details of safety approval, please consult the factory.

## OUTPUT VOLTAGE / CURRENT RATINGS CHART

### SINGLE OUTPUT

| MODEL NO.        | AC INLET        | O/P VOLTAGE | O/P CURRENT |
|------------------|-----------------|-------------|-------------|
| HEMG76-S120550-7 | IEC320-C14(DT7) | 12.0Vdc     | 5.5A        |
| HEMG76-S120550-8 | IEC320-C8(DT8)  | 12.0Vdc     | 5.5A        |
| HEMG76-S240300-7 | IEC320-C14(DT7) | 24.0Vdc     | 3.0A        |
| HEMG76-S240300-8 | IEC320-C8(DT8)  | 24.0Vdc     | 3.0A        |
| HEMG76-S480150-7 | IEC320-C14(DT7) | 48.0Vdc     | 1.5A        |
| HEMG76-S480150-8 | IEC320-C8(DT8)  | 48.0Vdc     | 1.5A        |

**MECHANICAL DIMENSIONS: MM [INCHES]**

**WEIGHT: 373.0g (13.2 Oz.)**

