# H HiTRON

## *UNIVERSAL INPUT AC-DC MEDICAL & ITE APPLICATION EXTERNAL DESKTOP SWITCHING ADAPTER 50 WATTS GREEN POWER SINGLE OUTPUT HEMG56 SERIES*



## FEATURES:

- **ACCOMMODATE UNIVERSAL AC INPUT**
- **MEET MEDICAL STANDARDS IEC60601-1 & ITE STANDARDS IEC60950-1**
- **EMI MEET EN 55011 & EN55022 / FCC CLASS B**
- **NO LOAD POWER CONSUMPTION<0.16W**
- **ENERGY EFFICIENCY LEVEL VI**
- **CE MARKING COMPLIANCE**

## SPECIFICATION

### INPUT SPECIFICATION

**Input Voltage:** Typ. 90-264Vac.
**Input Connector:** 3 pole AC inlet IEC320-C14(DT7) /
2 pole AC inlet IEC320-C8(DT8).
**Input Frequency:** 47-63Hz.
**Inrush Current:** 13.4Arms (72Apk) at 230Vac.
**Input Current:** Typical 0.72A at 115Vac/ 0.43A at 230Vac.
**Dielectric Withstand:** Meet IEC60601-1 & IEC60950-1.
**EMI:** Meet EN55011 & EN55022 / FCC Class B.
**Hold-up Time:** Typical 20mS at 115Vac.
Typical 81mS at 230Vac.
**Earth Leakage Current (Class I) :** Less than 0.18 mA.
**Enclosure Leakage Current (Class I):** Less than 0.01mA.
**No Load Power:** Less than 0.16W at 230Vac.

### OUTPUT SPECIFICATION

**Output Voltage:** See Ratings Chart.
**Output Current:** See Ratings Chart.
**Output Wattage:** Typical 35-50Watts.
**Output Connector & Cord:** Optional.
**Line Regulation:** Typical 0.1%.
**Load Regulation:** Typical ±3%.
**Noise & Ripple:** 1.0% peak to peak.
**OVP:** Built-in by latch circuit.
**Adjustability:** Factory set.
**Over Current Protection (OCP):**
Fully protected against output overload and short circuit.
Consult the factory for OCP setting.

### GENERAL SPECIFICATION

**Efficiency:** Typ. 80-92%. (various with the output voltage)
**Switching Frequency:** 65KHz.
**Circuit Topology:** Fixed Frequency Flyback circuit.
**Transient Response:** Output voltage returns in less than 1mS following a 25% load change.
**Safety Standard:** Meet Medical IEC60601-1 & ITE IEC60950-1, Class I for DT7(C14), Class II for DT8(C8).
**Operating Temperature:** -20°C to +40°C.
**Storage Temperature:** -40°C to +85°C.
**Cooling:** Free air convection.
**Construction:** Impact resistant thermo-plastic enclosure case.
**Power Density:** 2.8-4Watts. / 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.
(4) HEMG56 can meet Energy Efficiency Level VI and CEC except 5V output.
(5) Due to requests in market and advances in technology, specifications subject to change without notice.

# OUTPUT VOLTAGE / CURRENT RATINGS CHART

## SINGLE OUTPUT

| MODEL NO. | AC INLET | O/P VOLTAGE | O/P CURRENT |
|---|---|---|---|
| **HEMG56-S050700-7** | IEC320-C14(DT7) | **5.0Vdc** | 7.00A |
| **HEMG56-S050700-8** | IEC320-C8(DT8) | **5.0Vdc** | 7.00A |
| **HEMG56-S120420-7** | IEC320-C14(DT7) | **12.0Vdc** | 4.20A |
| **HEMG56-S120420-8** | IEC320-C8(DT8) | **12.0Vdc** | 4.20A |
| **HEMG56-S150333-7** | IEC320-C14(DT7) | **15.0Vdc** | 3.33A |
| **HEMG56-S150333-8** | IEC320-C8(DT8) | **15.0Vdc** | 3.33A |
| **HEMG56-S240215-7** | IEC320-C14(DT7) | **24.0Vdc** | 2.15A |
| **HEMG56-S240215-8** | IEC320-C8(DT8) | **24.0Vdc** | 2.15A |
| **HEMG56-S480110-7** | IEC320-C14(DT7) | **48.0Vdc** | 1.10A |
| **HEMG56-S480110-8** | IEC320-C8(DT8) | **48.0Vdc** | 1.10A |

Remark: Other output voltages are available, please contact sales for details.

**MECHANICAL DIMENSIONS: MM [INCHES]** **WEIGHT:**270g (8.80Oz)

