

# HiTRON

## UNIVERSAL INPUT HARMONIC CORRECTION (PFC) AC-DC MEDICAL & ITE APPLICATION EXTERNAL DESKTOP SWITCHING ADAPTER 200-250 WATTS GREEN POWER SINGLE OUTPUT HEMP252G SERIES



### FEATURES:

- ACCOMMODATE UNIVERSAL AC INPUT
- NO LOAD POWER CONSUMPTION <0.5W
- MEET MEDICAL STANDARDS IEC60601-1 & ITE STANDARDS IEC60950-1
- EMI MEET EN55011 & EN55022 / FCC CLASS B
- INTERNATIONAL EFFICIENCY LEVEL V & CEC COMPLIANT
- CE MARKING COMPLIANCE

### SPECIFICATION

#### INPUT SPECIFICATION

**Input Voltage:** Typical 90-264Vac with PFC.  
**Input Connector:** 3 pole AC inlet IEC320-C14(DT7)  
**Input Frequency:** 47-63Hz.  
**Inrush Current:** 15.8Arms at 230Vac  
**Input Current:** Typical 1.95A at 115Vac  
 Typical 1.05A at 230Vac  
**Dielectric Withstand:** Meet IEC60601-1 & IEC60950-1.  
**EMI:** Meet EN55011 & EN55022 FCC Class B.  
**Hold-up Time:** Typical 25mS at 115Vac and 230Vac.  
**Power Factor & Harmonic Correction:**  
 Meet IEC 61000-3-2, PF typical 0.96-0.99 at full load.  
**Over Temp. Protection:** Installed by NTC.  
**Earth Leakage Current:** Less than 0.3mA.  
**No Load Power:** Less than 0.5W at 230Vac.

#### OUTPUT SPECIFICATION

**Output Voltage:** See Ratings Chart.  
**Output Current:** See Ratings Chart.  
**Output Wattage:** 200-250Watt. (See Input Voltage Derating).  
**Output Connector:** Optional.  
**Line Regulation:** Typical  $\pm 0.1\%$ .  
**Load Regulation:** Typical  $\pm 3\%$ .  
**Noise & Ripple:** Typical 1% peak to peak.  
**OVP:** Built-in. (Latch)  
**Adjustability:** Not available.  
**Overload Protection (OLP):**  
 Fully protected against output overload and short circuit.  
 OLP set at about 110-150% rating output wattage.  
 Consult the factory for OLP setting.

#### GENERAL SPECIFICATION

**Efficiency:** Typical 88-94% (various with output voltage).  
**Switching Frequency:** 85-100KHz  
**Circuit Topology:** Half-Bridge ZVS 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.  
**Operating Temperature:** -25°C to +40°C.  
**Storage Temperature:** -30°C to +85°C.  
**Cooling:** Free air convection.  
**Construction:** Impact resistant plastic enclosure case.  
**Power Density:** 3.62-4.54Watt/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 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) Derating is needed under low input voltages 90-110Vac. Please refer to the Input Voltage Derating for more details.  
 (5) Due to requests in market and advances in technology, specifications subject to change without notice.

# OUTPUT VOLTAGE/CURRENT RATINGS CHART

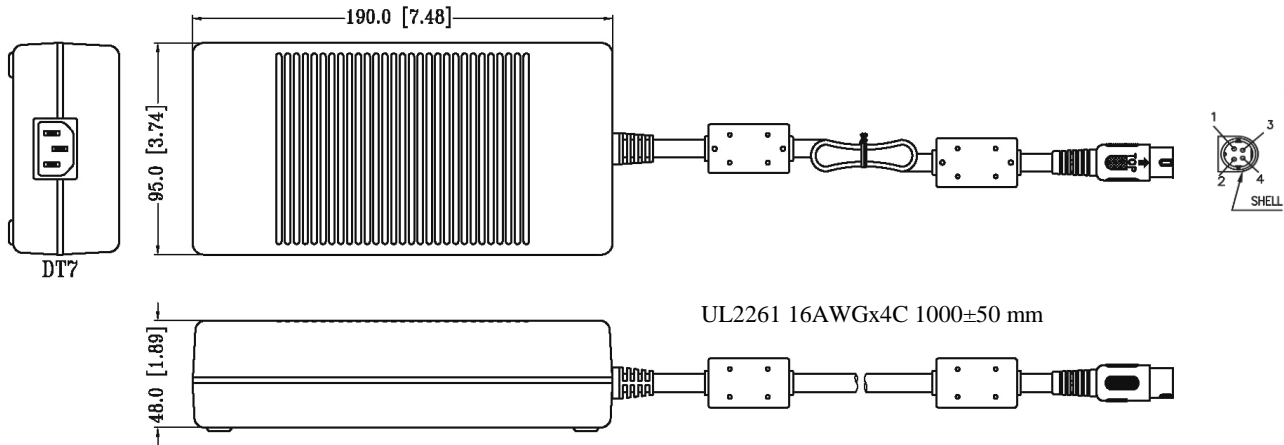
## SINGLE OUTPUT

| MODEL NO.          | AC INLET        | O/P VOLTAGE | O/P CURRENT |       |       |
|--------------------|-----------------|-------------|-------------|-------|-------|
|                    |                 |             | Typical     | Max.  | Peak  |
| HEMP252G-S120167-7 | IEC320-C14(DT7) | 12Vdc       | 16.7A       | 16.7A | 20.0A |
| HEMP252G-S240104-7 | IEC320-C14(DT7) | 24Vdc       | 10.4A       | 10.4A | 12.0A |
| HEMP252G-S480052-7 | IEC320-C14(DT7) | 48Vdc       | 5.2A        | 5.2A  | 6.0A  |
| HEMP252G-S560045-7 | IEC320-C14(DT7) | 56Vdc       | 4.5A        | 4.5A  | 5.0A  |

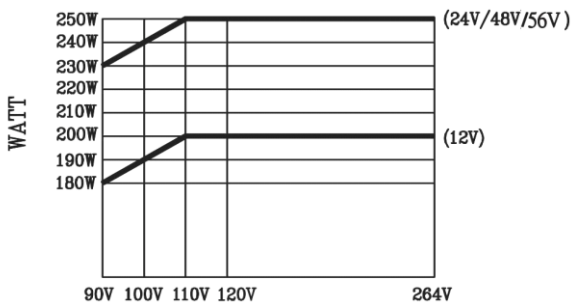
**Remark:** For LED Indicator, add suffix '(A)' to model number.

## MECHANICAL DIMENSIONS: MM [INCHES]

**WEIGHT:** 1216.5g (42.91Oz)



## INPUT VOLTAGE DERATING



INPUT VOLTAGE (VAC) 50/60Hz

## PIN ASSIGNMENT

| PIN NO. | PIN OUT |
|---------|---------|
| PIN #1  | VO1     |
| PIN #2  | DC COM  |
| PIN #3  | DC COM  |
| PIN #4  | +VO1    |