

• **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

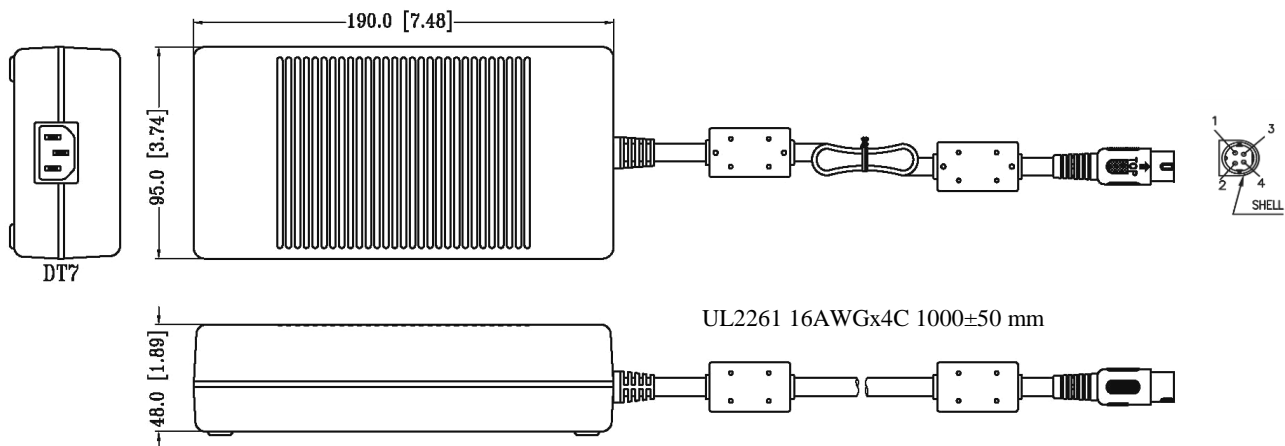
SINGLE OUTPUT

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

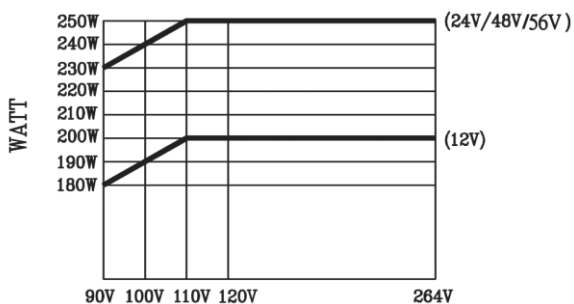
Remark: For LED Indicator, add suffix '(A)' to model number.

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