

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

- Energy Efficiency Level V
- Medical and ITE application
- Wide operating temperature range and high efficiency
- Class I construction
- CE marking compliance



Specification

Input

Input Voltage	90-264VAC
Input Frequency	47-63Hz
Input Current	Typical 1.95A at 115VAC Typical 1.05A at 230VAC
Inrush Current	15.8Arms at 230VAC
Power Factor	Typical 0.96-0.99 at full load
Input Connector	3 pole IEC320-C14(DT7)
Earth Leakage Current	Less than 0.3mA
No Load Power	Less than 0.5W

Output

Output Connector/Plug	Optional
Line Regulation	Typical $\pm 0.1\%$
Load Regulation	Typical $\pm 3\%$
Total Regulation	Typical $\pm 5\%$
Noise & Ripple	Typical 1% peak to peak
Adjustability	Factory set
Hold-up Time	Typical 25mS at 115VAC

Protection

Over Voltage	Built-in (Latch)
Over Temperature	Installed by NTC

Protection

Over Load	Typical set at about 110-150% of rating output wattage
-----------	--

General

Efficiency	Typical 88-94% (depending on model)
Switching Frequency	85-100KHz
Dielectric Withstand	IEC60601-1 and IEC60950-1
Circuit Topology	Half-Bridge Circuit
Transient Response	Output voltage returns in less than 1mS following a 25% load change
Power Density	3.62-4.54W / Cubic Inch

Environmental

Operating Temperature	-25°C to +40°C
Storage Temperature	-30°C to +85°C
Cooling	Convection-cooled
Operating Altitude	5000m
Operating Humidity	10-95% RH, non-condensing
Storage Humidity	5-95% RH

Safety/EMC

Emissions	EN55011 and EN55022 FCC Class B
Harmonic Current	IEC61000-3-2
Safety Standard	IEC60601-1 and IEC60601-1 Class I

Notes:

- (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) 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 rating chart

Single Output

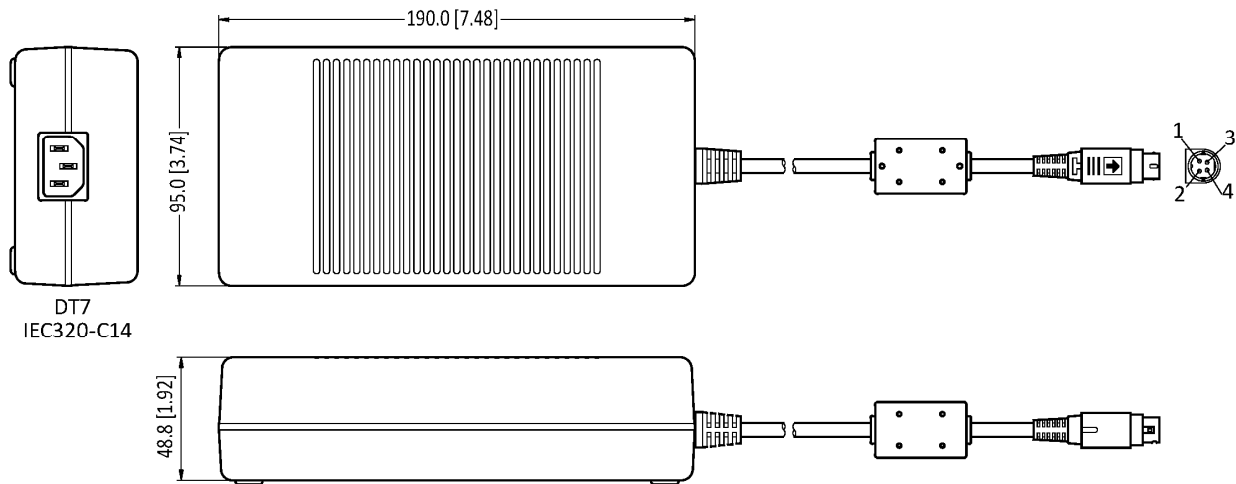
Model No.	AC Inlet	Output Voltage	Output Current		
			Typical	Max.	Peak
HEMP252G-S120167-7	IEC320-C14 (DT7)	12V	16.7A	16.7A	20.0A
HEMP252G-S240104-7	IEC320-C14 (DT7)	24V	10.4A	10.4A	12.0A
HEMP252G-S480052-7	IEC320-C14 (DT7)	48V	5.2A	5.2A	6.0A
HEMP252G-S560045-7	IEC320-C14 (DT7)	56V	4.5A	4.5A	5.0A

Notes: (1) Other output voltages are available. Please contact sales for details.

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

Mechanical Dimensions (Note: All dimensions are in mm[inch])

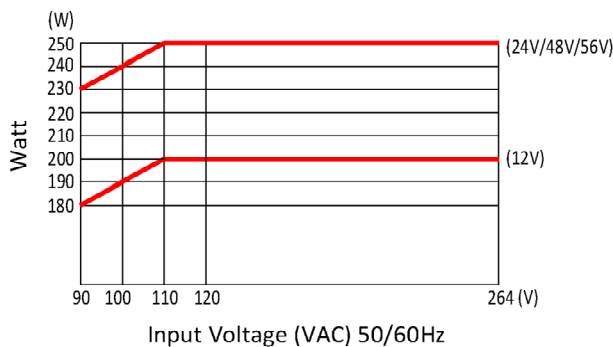
Weight: 1216.5g



Notes: (1) The cable length is UL2261 16AWGx4C 1000±50 mm.

(2) The drawing for connector is for reference purpose. Optional output connectors are available, please contact sales for details.

Input voltage derating



Pin assignment

Pin NO.	Pin out
PIN #1	+V1
PIN #2	DC COM
PIN #3	DC COM
PIN #4	+V1