# UNIVERSAL INPUT HARMONIC CORRECTION (PFC) AC-DC MEDICAL & ITE APPLICATION EXTERNAL DESKTOP SWITCHING ADAPTER 180-250 WATTS GREEN POWER SINGLE OUTPUT TPEMP250G 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
- MEET UNIVERSAL SAFETY STANDARDS
- **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: 12.5 Arms at 230 Vac Input Current: Typical 2.4 A at 115 Vac Typical 1.3 A at 230 Vac

Dielectric Withstand: Meet IEC60601-1 & IEC60950-1.

**EMI:** Meet EN55011 & EN55022 FCC Class B. **Hold-up Time:** Typical 20mS 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.

LED Indicator: Optional.

#### **OUTPUT SPECIFICATION**

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart.

Output Wattage: 180-250Watt. (See Input Voltage Derating).

**Output Connector:** Optional. **Line Regulation:** Typical  $\pm$  1%. **Load Regulation:** Typical  $\pm$  3 %.

Noise & Ripple: Typical 1% peak to peak.

**OVP:** Built-in. (Latch) **Adjustability:** Not available.

Over Temp. Protection (OTP): Installed.

**Overload Protection (OLP):** 

Fully protected against output overload and short circuit. OLP set at about 110-130% rating output wattage.

**Construction:** Impact resistant plastic enclosure case.

Consult the factory for OLP setting.

**Operating Temperature:** 0 to +40°C.

**Storage Temperature: -**20 to +85°C.

Power Density: 3.78Watt/Cubic Inch.

Cooling: Free air convection.

#### GENERAL SPECIFICATION

Efficiency: Typical 89% (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 &

Desktop Format.

ITE IEC60950-1 Class I. Desktop Form

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(±%)
- (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
- (5) Derating is needed under low input voltages 90-110Vac.. Please refer to the Input Voltage Derating for more details.







For the details of safety approval, please consult the factory

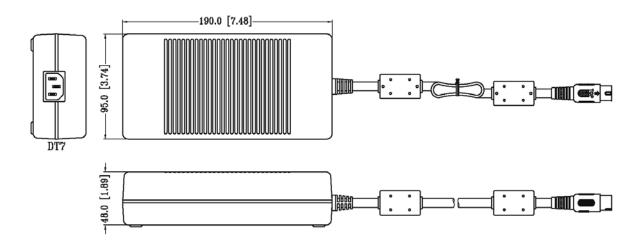
# **OUTPUT VOLTAGE/CURRENT RATINGS CHART**

## SINGLE OUTPUT

MODEL NO.	AC INLET	O/P VOLTAGE	O/P CURRENT	
			Typical	Max.
TPEMP250G-S120166-7	IEC320-C14(DT7)	12Vdc	15.00A	16.6A
TPEMP250G-S240104-7	IEC320-C14(DT7)	24Vdc	9.58A	10.4A
TPEMP250G-S480052-7	IEC320-C14(DT7)	48Vdc	4.80A	5.2A

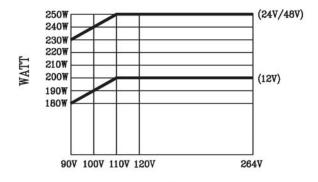
Remark: For LED Indicator, add suffix '(A)' to model number.

# **MECHANICAL DIMENSIONS: MM [INCHES]**



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

# **Input Voltage Derating**



INPUT VOLTAGE (VAC) 50/60Hz