



**Total Power International, Inc.**

**UNIVERSAL INPUT HARMONIC CORRECTION (PFC)  
AC-DC MEDICAL & ITE APPLICATION EXTERNAL DESKTOP  
SWITCHING ADAPTER 120-150 WATTS GREEN POWER  
SINGLE OUTPUT TPEMP150G SERIES**



**FEATURES:**

- ACCOMMODATE UNIVERSAL AC INPUT
- MEET MEDICAL STANDARDS IEC60601-1 & ITE STANDARDS IEC60950-1
- EMI MEET EN55011 & EN55022 / FCC CLASS B
- NO LOAD POWER CONSUMPTION < 0.5W
- 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)/  
3 pole AC inlet IEC320-C6(DT7L)/  
2 pole AC inlet IEC320-C8(DT8).  
**Input Frequency:** 47-63Hz.  
**Inrush Current:** 7.2Arms at 230Vac 50Hz.  
**Input Current:** Typical 1.2-1.4A at 115Vac  
Typical 0.6-0.7A at 230Vac.  
**Dielectric Withstand:** Meet IEC60601-1 & IEC60950-1.  
**EMI:** Meet EN55011 & EN55022 FCC Class B.  
**Hold-up Time:** Typical 26.4-51.2mS at 115Vac  
Typical 44.8-60.0mS at 230Vac.  
**Power Factor & Harmonic Correction:**  
Meet IEC 61000-3-2, PF typical 0.99 at full load.  
**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:** Typical 120-150 Watts.  
**Output Connector:** Optional.  
**Line Regulation:** Typical  $\pm 0.1\%$ .  
**Load Regulation:** Typical  $\pm 2\%$ .  
**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 110-135% rating output wattage.  
Consult the factory for OLP setting.

**GENERAL SPECIFICATION**

**Efficiency:** Typical 87-90% (various with output voltage).  
**Switching Frequency:** 40-65 KHz.  
**Circuit Topology:** Fixed 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 or II.

**Operating Temperature:** 0 to +40°C.  
**Storage Temperature:** -20 to +85°C.  
**Cooling:** Free air convection.  
**Construction:** Impact resistant plastic enclosure case.  
**Power Density:** 3.5-4.37 Watts/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) Due to requests in market and advances in technology, specifications subject to change without notice



For the detail of safety approval, please consult the factory.



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## OUTPUT VOLTAGE / CURRENT RATINGS CHART

### SINGLE OUTPUT

| MODEL NO.            | AC INLET        | O/P VOLTAGE | O/P CURRENT |
|----------------------|-----------------|-------------|-------------|
| TPEMP150G-S120100-7  | IEC320-C14(DT7) | 12Vdc       | 10.0A       |
| TPEMP150G-S120100-7L | IEC320-C6(DT7L) | 12Vdc       | 10.0A       |
| TPEMP150G-S120100-8  | IEC320-C8(DT8)  | 12Vdc       | 10.0A       |
| TPEMP150G-S150080-7  | IEC320-C14(DT7) | 15Vdc       | 8.0A        |
| TPEMP150G-S150080-7L | IEC320-C6(DT7L) | 15Vdc       | 8.0A        |
| TPEMP150G-S150080-8  | IEC320-C8(DT8)  | 15Vdc       | 8.0A        |
| TPEMP150G-S240060-7  | IEC320-C14(DT7) | 24Vdc       | 6.0A        |
| TPEMP150G-S240060-7L | IEC320-C6(DT7L) | 24Vdc       | 6.0A        |
| TPEMP150G-S240060-8  | IEC320-C8(DT8)  | 24Vdc       | 6.0A        |

**MECHANICAL DIMENSIONS: MM [INCHES]**

**WEIGHT: 798g (28.15Oz.)**

