



# Total Power International, Inc.

## UNIVERSAL INPUT AC-DC MEDICAL APPLICATION EXTERNAL DESKTOP SWITCHING ADAPTER 64-72 WATTS GREEN POWER SINGLE OUTPUT TPENMG75 SERIES



### FEATURES:

- ACCOMMODATE UNIVERSAL AC INPUT
- 3 POLE/2 POLE AC INLET IEC320-C14/C8
- MEET MEDICAL STANDARDS IEC60601
- NO LOAD POWER CONSUMPTION <0.5W
- EMI MEET EN 55011 / FCC CLASS B
- CE MARKING COMPLIANCE

### SPECIFICATION

#### INPUT SPECIFICATION

**Input Voltage:** Typical 90-264Vac.  
**Input Connector:** 3 pole AC inlet IEC320-C14(DT7) /  
 2 pole AC inlet IEC320-C8(DT8).  
**Input Frequency:** 47-63Hz.  
**Inrush Current:** Typical 57.6A at 230Vac.  
**Input Current:** Typical 1.2A at 115Vac, 0.59A at 230Vac.  
**Dielectric Withstand:** Meet IEC60601-1.  
**EMI:** Meet EN55011 FCC Class B.  
**Hold-up Time:** Typical 15.7mS at 115Vac,  
 Typical 82.6mS at 230Vac.  
**Over Temp. Protection:** Available.  
**Leakage Current:** Less than 100uA.  
**No Load Power:** Less than 0.5W at 230Vac.

#### OUTPUT SPECIFICATION

**Output Voltage:** See Ratings Chart.  
**Output Current:** See Ratings Chart.  
**Output Wattage:** Typical 64-72 Watts.  
**Output Connector & Cord:** Optional.  
**Line Regulation:** Typical 1%.  
**Load Regulation:** Typical  $\pm 3\%$ .  
**Noise & Ripple:** Typical 1% peak to peak.  
**OVP:** Built-in by latch circuit.  
**Adjustability:** Factory set.  
**Over Current Protection (OCP):**  
 Fully protected against output overload and short circuit.  
 OLP set at about 125-150% rating output wattage.  
 Consult the factory for OLP setting.

#### GENERAL SPECIFICATION

**Efficiency:** Typical 84-85%. (various with output voltage)  
**Switching Frequency:** Typical 60KHz.  
**Circuit Topology:** Fixed Frequency flyback circuit.  
**Transient Response:** Output voltage returns in less than  
 1mS following a 25% load change.  
**Safety Standard:** Medical standards IEC60601-1/  
 EN60601-1/ UL60601-1.  
**Operating Temperature:** 0 to +40°C.  
**Storage Temperature:** -20 to +85 °C.  
**Cooling:** Free air convection.  
**Construction:** Impact resistant thermo-plastic  
 enclosure case.  
**Power Density:** 4.12-4.7 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 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) Due to requests in market and advances in technology, specifications subject to change without notice.



For the details 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
TPEMG75-120530-7	IEC320-C14(DT7)	12.0Vdc	5.3A
TPEMG75-120530-8	IEC320-C8(DT8)	12.0Vdc	5.3A
TPEMG75-150470-7	IEC320-C14(DT7)	15.0Vdc	4.7A
TPEMG75-150470-8	IEC320-C8(DT8)	15.0Vdc	4.7A
TPEMG75-180400-7	IEC320-C14(DT7)	18.0Vdc	4.0A
TPEMG75-180400-8	IEC320-C8(DT8)	18.0Vdc	4.0A
TPEMG75-240280-7	IEC320-C14(DT7)	24.0Vdc	2.8A
TPEMG75-240280-8	IEC320-C8(DT8)	24.0Vdc	2.8A
TPEMG75-480150-7	IEC320-C14(DT7)	48.0Vdc	1.5A
TPEMG75-480150-8	IEC320-C8(DT8)	48.0Vdc	1.5A

**MECHANICAL DIMENSIONS: MM [INCHES]**

**WEIGHT: 373.0g (13.2 Oz.)**

