

# **TOTAL POWER INT'L**

## **AC TO DC EXTERNAL WALLMOUNT ADAPTOR 2-BLADE USA OR EURO-STECKER AC PLUG SINGLE OUTPUT 9-10 WATTS SWITCHING POWER SUPPLIES TPES09 SERIES**



### **FEATURES:**

- VERY SMALL & COMPACT IN SIZE
- 2-BLADE USA OR EURO-STECKER AC PLUG
- EMI MEET EN55022 / FCC CLASS B
- MEET UNIVERSAL SAFETY STANDARDS
- CE MARKING COMPLIANCE

### **SPECIFICATION**

#### **INPUT SPECIFICATION**

**Input Voltage:** 90-132Vac or 90-264Vac.  
**Input Connector:** 2-blade USA WM1 or  
Euro-Stecker WM3 AC plug.  
**Input Frequency:** 47-63Hz.  
**Inrush Current:** Typical 34A @230Vac.  
21A @ 230 Vac by adding the thermister.  
**Input Current:** 0.22A@115Vac. / 0.1A @ 230Vac.  
**Dielectric Withstand:** Meet IEC950.  
**EMI:** Meet EN55022 / FCC Class B.  
**Hold-up Time:** 10mS @115Vac or  
40mS @230Vac typical.

#### **OUTPUT SPECIFICATION**

**Output Voltage:** See Ratings Chart.  
**Output Current:** See Ratings Chart.  
**Output Wattage:** 9 ~ 10 Watts typical.  
**Output Connector:** Optional.  
**Line Regulation:** 0.1% typical.  
**Load Regulation:**  $\pm 1.5 \sim 3.0\%$  typical.  
**Noise & Ripple:** Typ. 1.0% peak to peak.  
**OVP:** Built-in, Zener Diode clamping.  
**Overload Protection:** Typ. 125 ~ 150% of max. power  
overrange or short circuit, power foldback  
& self-recovering.

#### **GENERAL SPECIFICATION**

**Efficiency:** 75% typical.  
**Switching Frequency:** Fixed 100K Hz.  
**Circuit Topology:** Fixed Frequency flyback circuit.  
**Transient Response:** Output voltage returns in less than  
3mS following a 25% load change.  
**Safety Standard:** UL1950 / EN60950 Class II.  
**Power Density:** 1.73 Watts / Cubic Inch.

**Operating Temperature:** 0 to +40°C.  
**Storage Temperature:** -20 to +85°C.  
**Temperature Coefficient:** 0.04%/°C.  
**Cooling:** Free air convection.  
**Construction:** Impact resistant thermo-plastic  
enclosure case.  
**Wallmount Format.**

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 is varied from half load to full load ( $\pm\%$ ).

(3) The exact obtainable load regulation depends upon the output cord selected and load current. Upper data are for 6 ft. (2 m) cord AWG#18 wires.

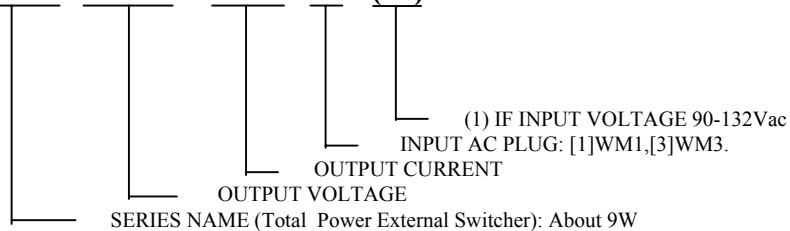


For the details of safety approval, please consult the factory.

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## MODEL NO. DESCRIPTION: TPES09 - X X X Y Y Y - S (1)



## OUTPUT VOLTAGE / CURRENT RATINGS CHART

| DEFINED OUTPUT VOLTAGE (Vdc)   | OUTPUT VOLTAGE (Vdc)/CURRENT (A)                                                                                                                                                                                                                                        |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5.0Vdc ≤ Any Voltage ≤ 15.0Vdc | 5.0-5.6V/1.8-1.6A, 5.7-6.0V/1.58-1.5A,<br>6.1-6.4V/1.47-1.4A, 6.5-6.9V/1.38-1.3A,<br>7.0-7.5V/1.28-1.2A, 7.6-8.2V/1.18-1.1A,<br>8.3-9.0V/1.08-1.0A, 9.1-10.0V/0.99-0.9A,<br>10.1-11.2V/0.89-0.8A, 11.3-12.8V/0.79-0.7A,<br>12.9-13.8V/0.69-0.65A, 13.9-15.0V/0.64-0.6A. |

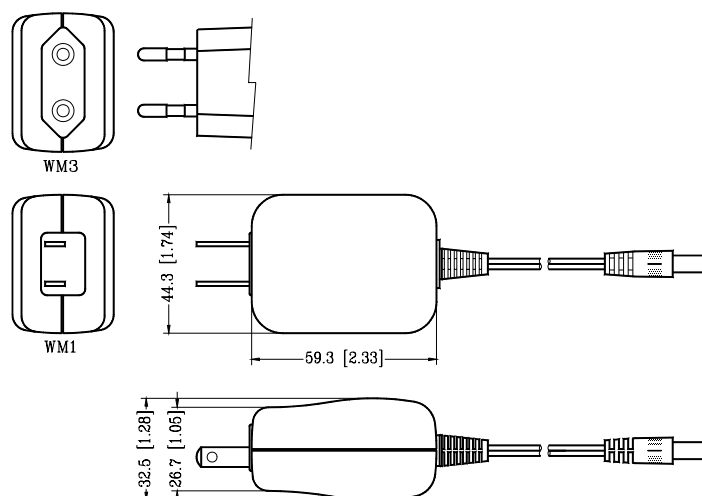
Note: Refer to the upper Chart or consult factory for the exact Model No. and V/A ratings.

### SINGLE OUTPUT *(Model No. for example.)*

| MODEL NO.          | AC INPUT  | AC PLUG | O/P VOLTAGE | O/P CURRENT |
|--------------------|-----------|---------|-------------|-------------|
| TPES09-050160-1(1) | 90-132Vac | WM1     | 5.0V        | 1.60A       |
| TPES09-050180-1    | 90-264Vac | WM1     | 5.0V        | 1.80A       |
| TPES09-050180-1(1) | 90-132Vac | WM1     | 5.0V        | 1.80A       |
| TPES09-050180-3    | 90-264Vac | WM3     | 5.0V        | 1.80A       |
| TPES09-050200-1    | 90-264Vac | WM1     | 5.0V        | 2.00A       |
| TPES09-050200-3    | 90-264Vac | WM3     | 5.0V        | 2.00A       |
| TPES09-120075-1    | 90-264Vac | WM1     | 12.0V       | 0.75A       |
| TPES09-120075-1(1) | 90-132Vac | WM1     | 12.0V       | 0.75A       |
| TPES09-120075-3    | 90-264Vac | WM3     | 12.0V       | 0.75A       |
| TPES09-150060-1    | 90-264Vac | WM1     | 15.0V       | 0.60A       |
| TPES09-150060-1(1) | 90-132Vac | WM1     | 15.0V       | 0.60A       |
| TPES09-150060-3    | 90-264Vac | WM3     | 15.0V       | 0.60A       |

## MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 113.0g (4.0 Oz)



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