

# TOTAL POWER INT'L

## UNIVERSAL INPUT AC TO DC MEDICAL APPLICATION EXTERNAL ADAPTER SINGLE OUTPUT 22-24 WATTS SWITCHING POWER SUPPLIES TPES22 SERIES



### FEATURES:

- UNIVERSAL AC SOURCES
- DESKTOP IEC320 AC RECEPTACLE
- MEDICAL STANDARDS EN6061/UL2601
- EMI MEET EN55022 / FCC CLASS B
- CE MARKING COMPLIANCE

### SPECIFICATION

#### INPUT SPECIFICATION

**Input Voltage:** Typ. 90-264Vac.  
**Input Connector:** IEC320-3P DT7 AC receptacle.  
**Input Frequency:** 47-63Hz.  
**Inrush Current:** 35A @ 230Vac. typical or less than 30A by adding thermister.  
**Input Current:** Typ. 0.38A @ 115Vac. & 0.15A @ 230Vac.  
**Dielectric Withstand:** Meet IEC601.  
**EMI:** Meet EN 55022 Class B.  
**Hold-up Time:** Typ. 16mS @115Vac. or 64mS @230Vac.  
**Earth Leakage:** Less than 0.1 mA.

#### OUTPUT SPECIFICATION

**Output Voltage:** See Ratings Chart.  
**Output Current:** See Ratings Chart.  
**Output Wattage:** 22-24W typical.  
**Output Connector & Cord:** Optional.  
**Line Regulation:** Typ. 0.1%.  
**Load Regulation:** Typ. ±1.5-3.0 %.  
**Noise & Ripple:** Typ. 1.0% peak to peak.  
**OVP:** Built-in, by latched circuit.  
**Adjustability:** Factory set.  
**Overload Protection:** Typ. 115-130% of max. power of overrange or short circuit, power foldback & self-recovering.

#### GENERAL SPECIFICATION

**Efficiency:** Typ. 80%.  
**Switching Frequency:** Typ. 75K Hz.  
**Circuit Topology:** Fixed Frequency flyback circuit.  
**Transient Response:** Output voltage returns in less than 3mS following a 50% load change.  
**Safety Standard:** IEC601/EN 60601/UL 2601 Class I for medical applications.  
**Power Density:** 1.75Watts / 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.  
**Desktop construction format.**

Notes: (1) All measurements are at nominal input, full load, and +25°C unless otherwise specified.

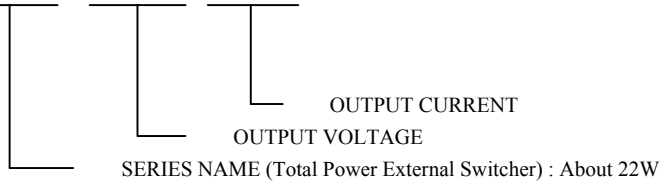
(2) Load regulation is measured at 115Vac or 230Vac in percentage to indicate the change in output voltage as the load varied from half load to full load(±%).

(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.



In application.

**MODEL NO. DESCRIPTION: TPES22 - X X X Y Y Y**



**OUTPUT VOLTAGE/CURRENT RATINGS CHART**

**SINGLE OUTPUT**

MODEL NO.	AC PLUG	OUTPUT CURRENT (Vdc)	OUTPUT CURRENT (A)
TPES22-033400	DT7	3.3Vdc	4.00A
TPES22-050400	DT7	5.0Vdc	4.00A
TPES22-075300	DT7	7.5Vdc	3.00A
TPES22-090250	DT7	9.0Vdc	2.50A
TPES22-120200	DT7	12.0Vdc	2.00A
TPES22-150160	DT7	15.0Vdc	1.60A
TPES22-210115	DT7	21.0Vdc	1.15A
TPES22-240100	DT7	24.0Vdc	1.00A
TPES22-300080	DT7	30.0Vdc	0.80A

**MECHANICAL DIMENSIONS: MM [INCHES]**

**WEIGHT: 206.0g (6.23 Oz.).**

