

# AC/DC EXTERNAL DESKTOP ADAPTER UNIVERSAL INPUT SINGLE OUTPUT 45-51 WATTS SWITCHING POWER SUPPLIES TPES51 SERIES



# **FEATURES:**

- ACCOMMODATE UNIVERSAL AC SOURCE
- LOW PROFILE & HIGH POWER DENSITY
- **DESKTOP IEC320-2P AC RECEPTACLE**
- MEET UNIVERSAL SAFETY STANDARDS
- EMI EN55022 / FCC CLASS B
- **CE MARKING COMPLIANCE**

SPECIFICATION		
INPUT SPECIFICATION	OUTPUT SPECIFICATION	
Input Voltage: 90-264Vac typical.	Output Voltage: See Ratings Chart.	
	Output Current: See Ratings Chart.	
<b>Input Connector:</b> IEC320-2P DT8 AC inlet receptacle.	Output Wattage: 45-51Watt typical.	
Input Frequency: 47-63Hz.	Output Connector & Cord: Optional. Output LED Indicator: Installed. Line Regulation: 0.1% typical.	
Inrush Current: 30A @240Vac typical.		
initusii Current: 30A (240 vac typicai.	Load Regulation: ±1.5-3.0% typical.	
Input Current: 1.0A @115Vac & 0.5A @230Vac typical.	<b>Noise &amp; Ripple:</b> 1.0% typical peak to peak. <b>OVP:</b> Built-in Zener diode clamping.	
Dielectric Withstand: Meet IEC60950-1.		
EMI: Meet EN55022 / FCC Class B.	Over Current Protection (OCP): Installed.	
	Current limiting can be set precisely as per request.	
Hold-up Time: 8mS @115Vac typical.	Overload Protection (OLP):	
50mS @230Vac typical.	Fully protected against output overload or short circuit.	
Over Temp. Protection: By NTC.	Typical set at 130% max. load. Consult the factory for special OLP setting.	
GENERAL SPECIFICATION		
Efficiency: 85% typical.	<b>Operating Temperature:</b> 0 to +25/35/40°C	
Switching Frequency: Approximate 90K Hz.	without derating. (various with output voltage)	
Circuit Topology: Fixed Frequency Flyback circuit.	Storage Temperature: -20 to +85°C.	
Transient Response: Output voltage returns in less than	Temperature Coefficient: 0.04% /°C.	
3mS following a 25% load change.	Cooling: Free air convection.	
Safety Standard: Meet UL60950-1/ EN60950-1 Class II.	Construction: Impact resistant thermo- plastic case.	
Ower Density: 4.67Watts / Cubic Inch.     Desktop Format.       OTE: (1) All measurements are at nominal input, full load, and +25°C unless otherwise specified.     Desktop Format.		

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

(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.

**Total Power International, Inc.** 

## MODEL NO. DESCRIPTION: TPES51 - X X X YY

OUTPUT CURRENT OUTPUT VOLTAGE SERIES NAME (Total Power External Switcher): About 51W.

# **OUTPUT VOLTAGE/CURRENT RATINGS CHART**

DEFINED OUTPUT VOLTAGE(Vdc)	OUTPUT VOLTAGE(Vdc) / CURRENT (A)
	9.0-9.5V/5.0-4.7A, 9.6-10.0V/4.6-4.5A, 10.1-10.4V/4.4-4.3A,
	10.5-11.0V/4.2A, 11.1-11.9V/4.1A, 12.0-12.5V/4.0A,
	12.6-13.4V/3.9-3.7A, 13.5-14.1V/3.7-3.6A, 14.2-15.0V/3.5-3.4A.
15.0Vdc <any 30.0vdc<="" th="" voltage="" ≤=""><th>15.1-15.9V/3.3-3.2A, 16.0-17.0V/3.1A-3.0A, 17.1-18.2V/2.9-2.8A,</th></any>	15.1-15.9V/3.3-3.2A, 16.0-17.0V/3.1A-3.0A, 17.1-18.2V/2.9-2.8A,
	18.3-19.6V/2.7-2.6A, 19.7-21.2V/2.5-2.4A, 21.3-23.1V/2.3-2.2A,
	23.2-24.2V/2.2-2.1A, 24.3-25.5V/2.0A, 25.6-26.8V/1.9A,
	26.9-28.3V/1.8A, 28.4-30.0V/1.7A, 19.6V/3.0A.

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

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

MODEL NO.	O/P VOLTAGE	O/P CURRENT
TPES51-05080	5.0Vdc	8.0A
TPES51-09050	9.0Vdc	5.0A
TPES51-12040	12.0Vdc	4.0A
TPES51-15034	15.0Vdc	3.4A
TPES51-16031	16.0Vdc	3.1A
TPES51-18028	18.0Vdc	2.8A
TPES51-19630	19.6Vdc	3.0A
TPES51-24021	24.0Vdc	2.1A
TPES51-30017	30.0Vdc	1.7A
TPES51-48010	48.0Vdc	1.0A
TPES51-58007	58.0Vdc	0.7A

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

WEIGHT: 185.0g (6.53 Oz.)

