

H HiTRON

AC/DC EXTERNAL DESKTOP ADAPTER UNIVERSAL INPUT SINGLE OUTPUT 45-51 WATTS SWITCHING POWER SUPPLIES HES51 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

Input Voltage: 90-264Vac typical.

Input Connector: IEC320-2P DT8 AC inlet receptacle.

Input Frequency: 47-63Hz.

Inrush Current: 30A @240Vac typical.

Input Current: 1.0A @115Vac & 0.5A @230Vac typical.

Dielectric Withstand: Meet IEC60950-1.

EMI: Meet EN55022 / FCC Class B.

Hold-up Time: 8mS @115Vac typical.

50mS @230Vac typical.

Over Temp. Protection: By NTC.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart. Output Current: See Ratings Chart. Output Wattage: 45-51 Watt typical. Output Connector & Cord: Optional. Output LED Indicator: Installed. Line Regulation: 0.1% typical. **Load Regulation:** ± 1.5 -3.0% typical. **Noise & Ripple:** 1.0% typical peak to peak. **OVP:** Built-in Zener diode clamping. Over Current Protection (OCP): Installed.

Current limiting can be set precisely as per request.

Overload Protection (OLP):

Fully protected against output overload or short circuit.

Typical set at 130% max. load.

Consult the factory for special OLP setting.

GENERAL SPECIFICATION

Efficiency: 85% typical.

Switching Frequency: Approximate 90K Hz. Circuit Topology: Fixed Frequency Flyback circuit. **Transient Response:** Output voltage returns in less than

3mS following a 25% load change.

Safety Standard: Meet UL60950-1/EN60950-1 Class II.

Power Density: 4.67Watts / Cubic Inch.

Operating Temperature: 0 to +25/35/40°C

without derating. (various with output voltage)

Storage Temperature: -20 to +85°C. Temperature Coefficient: 0.04% /°C.

Cooling: Free air convection.

Construction: Impact resistant thermo- plastic case.

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 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.







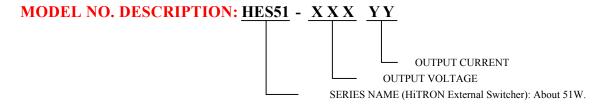








For the details of safety approval, please consult the factory.



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,	
9.0Vdc ≤ Any Voltage ≤ 15.0Vdc	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
HES51-05080	5.0Vdc	8.0A
HES51-09050	9.0Vdc	5.0A
HES51-12040	12.0Vdc	4.0A
HES51-15034	15.0Vdc	3.4A
HES51-16031	16.0Vdc	3.1A
HES51-18028	18.0Vdc	2.8A
HES51-19630	19.6Vdc	3.0A
HES51-24021	24.0Vdc	2.1A
HES51-30017	30.0Vdc	1.7A
HES51-48010	48.0Vdc	1.0A
HES51-58007	58.0Vdc	0.7A

MECHANICAL DIMENSIONS: MM [INCHES] WEIGHT: 185.0g (6.53 Oz.)

