

UNIVERSAL INPUT AC TO DC EXTERNAL DESKTOP ADAPTER 60-65 WATTS SINGLE OUTPUT SWITCHING POWER SUPPLIES HES65 SERIES



FEATURES:

- ACCOMMODATE UNIVERSAL AC INPUT
- DESKTOP IEC320-3P AC RECEPTACLE
- MEET UNIVERSAL SAFETY STANDARDS
- EMI MEET EN55022 / FCC CLASS B
- CE MARKING COMPLIANCE

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: 90-264Vac typical.
Input Connector: IEC320 3P-AC inlet receptacle.
Input Frequency: 47 ~ 63Hz.
Inrush Current: Less than 30A by adding thermister.
Input Current: 1.3A @115Vac./0.55A @230Vac typical.
Dielectric Withstand: Meet IEC950.
EMI: Meet EN55022 / FCC Class B.
Hold-up Time: 12mS @115Vac or
 75mS @230Vac typical.
Over Temp. Protection (OTP): Optional.
Over Current Protection (OCP): Optional.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart.
Output Wattage: Typical 60 ~ 65W.
Output Connector & Cord: Optional.
Output LED Indicator: Installed.
Line Regulation: 0.1% typical.
Load Regulation: ±3.0 ~ 5.0% typical.
Noise & Ripple: Typ. 1.0% peak to peak.
OVP: Built-in, Zener Diode clamping.
Adjustability: Factory set, not available..
Overload Protection: Typ. 125-150% of max power
 overrange or short circuit, power foldback
 & self-recovering.

GENERAL SPECIFICATION

Efficiency: 80% ~ 86% typical.
Switching Frequency: Approximate 85K 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 I.
Power Density: 4.2 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.
Desktop 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 (±%).

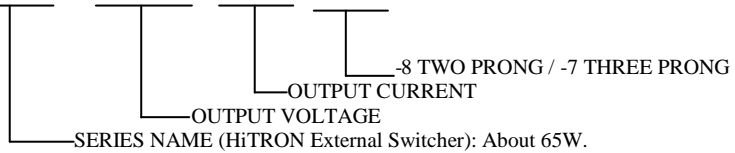
(3) The typical cord length is about 1 meter (3.3 ft.), AWG#18 cord for various load conditions.



In application

MODEL NO. DESCRIPTION: HES65 - X X X Y Y Y Z

Rev.A 03/19/2001



OUTPUT VOLTAGE / CURRENT RATINGS CHART

DEFINED OUTPUT VOLTAGE (Vdc)	OUTPUT VOLTAGE (Vdc) / CURRENT (A)
3.3 Vdc ≤ Any Voltage ≤ 18.0 Vdc	3.3-5.0V/8.0-7.5A, 5.1-6.0V/7.45-7.0A, 6.1-7.0V/6.99-6.9A, 7.1-8.0V/6.89-6.8A, 8.1-9.0V/6.79-6.7A, 9.1-10.0V/6.65-6.2A, 10.1-12.0V/6.15-5.2A, 12.1-15.0V/5.17-4.3A, 15.1-16.5V/4.27-3.9A, 16.6-18.0V/3.88-3.6A
18.0 Vdc < Any Voltage ≤ 48.0 Vdc	18.1-19.6 V/3.59-3.4A, 19.7-20.8V/3.37-3.2A, 20.9-22.2V/3.19-3.0A, 22.3-24.7V/2.99-2.7A, 24.8-26.6V/2.68-2.5A, 26.7-29.0V/2.49-2.3A, 29.1-33.3V/2.29-2.0A, 33.4-36.0V/1.99-1.85A, 36.0-38.0V/1.85-1.7A, 38.0-40.0V/1.75-1.66A, 40.0-42.0V/1.66-1.58A, 42.0-44.0V/1.58-1.51A, 44.0-46.0V/1.51-1.44A, 46.0-48.0V/1.44-1.40A

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.	OUTPUT VOLTAGE (Vdc)	OUTPUT CURRENT (A)
HES65-330800	3.3V	8.00A
HES65-500750	5.0V	7.50A
HES65-090670	9.0V	6.70A
HES65-120520	12.0V	5.20A
HES65-150430	15.0V	4.30A
HES65-180360	18.0V	3.60A
HES65-196340	19.6V	3.40A
HES65-240277	24.0V	2.77A
HES65-360185	36.0V	1.85A
HES65-480140	48.0V	1.40A

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 320.0g (11.30 Oz.)

