

# HiTRON

## AC/DC EXTERNAL DESKTOP ADAPTER UNIVERSAL INPUT SINGLE OUTPUT 25-36 WATTS SWITCHING POWER SUPPLIES HES34 SERIES



### FEATURES

- UNIVERSAL AC INPUT
- DESKTOP IEC320 AC RECEPTACLE
- MEET UNIVERSAL SAFETY STANDARDS
- EMI MEET EN 55022 / FCC CLASS B
- CE MARKING COMPLIANCE

### SPECIFICATION

#### INPUT SPECIFICATION

**Input Voltage:** 90-264Vac typical.  
**Input Connector:** IEC320-3P DT7 type  
AC inlet receptacle.  
**Input Frequency:** 47-63Hz.  
**Inrush Current:** 35A max. @264Vac or less than  
30A @230Vac by adding thermister.  
**Input Current:** 0.65A @115Vac typical.  
0.3A @230Vac typical.  
**Dielectric Withstand:** Meet IEC60950.  
**EMI:** Meet EN 55022 / FCC Class B.  
**Hold-up Time:** 17mS @115Vac typical.  
68mS typ. @230Vac typical.

#### OUTPUT SPECIFICATION

**Output Voltage:** See Ratings Chart.  
**Output Current:** See Ratings Chart.  
**Output Wattage:** 25-36Watts typical.  
**Output Connector & Cord:** Optional.  
**Line Regulation:** 0.1% typical.  
**Load Regulation:**  $\pm 1.5-3.0\%$  typical.  
**Noise & Ripple:** 1.0% typical peak to peak.  
**OVP:** Built-in, by Zener diode clamping.  
**Adjustability:** Factory set.  
**Overload Protection (OLP):**  
Fully protected against output overload and short circuit.  
OLP set at about 125-150% rating output wattage.  
Consult the factory for OLP setting.

### GENERAL SPECIFICATION

**Efficiency:** 80-85% typical.  
**Switching Frequency:** Approximate 73K Hz.  
**Circuit Topology:** Fixed Frequency Flyback circuit.  
**Transient Response:** Output voltage returns in less than  
3mS following a 25% load change.  
**Safety Standard:** Meet UL1950/ EN60950, Class I.  
**Power Density:** 2.70 Watts / Cubic inch.

**Operating Temperature:** 0 to +25/35/40°C  
without derating. (various with output voltage)  
**Storage Temperature:** -20°C to +85°C.  
**Temperature coefficient:** 0.04% /°C.  
**Cooling:** Free air convection.  
**Construction:** Impact resistant thermo-plastic  
enclosure 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 indicate the change in output voltage as the load varied from half load to full load( $\pm\%$ )

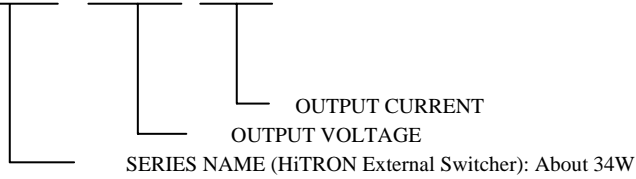
(3) The exact obtainable load regulation depends upon the output cord selected and load current. Upper data are for 6 ft. (2 m) cord AWG#18 wires.

(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.

**MODEL NO. DESCRIPTION: HES34 - X X X Y Y Y**



**OUTPUT VOLTAGE/CURRENT RATINGS CHART**

DEFINED OUTPUT VOLTAGE (Vdc)	OUTPUT VOLTAGE(Vdc)/ CURRENT (A)
3.3Vdc ≤ Any Voltage < 12.0Vdc	3.3-4.0V/4.0A, 5.0-5.9V/5.0-4.77A, 6.0-6.9V/4.75-4.52A, 7.0-7.9V/4.5-4.27A, 8.0-8.9V/4.25-4.02A, 9.0-9.9V/4.0-3.63A, 10.0-10.9V/3.6-3.3A, 11.0-11.9V/3.27-3.02A.
12.0Vdc ≤ Any Voltage ≤ 24.0Vdc	12.0-12.9V/3.0-2.79A, 13.0-13.9V/2.76-2.58A, 14.0-14.9V/2.57-2.41A, 15.0-15.9V/2.4-2.26A, 16.0-18.0V/2.25-2.0A, 18.1-20.0V/1.98-1.8A, 20.1-22.5V/1.79-1.60A, 22.6-24.0V/1.59-1.5A.

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
HES34-033400	3.3Vdc	4.0A
HES34-050500	5.0Vdc	5.0A
HES34-090400	9.0Vdc	4.0A
HES34-120300	12.0Vdc	3.0A
HES34-150240	15.0Vdc	2.4A
HES34-180200	18.0Vdc	2.0A
HES34-240150	24.0Vdc	1.5A

**MECHANICAL DIMENSIONS: MM [INCHES]**

**WEIGHT: 330.0g (11.6 Oz.)**

