



**AC/DC EXTERNAL DESKTOP ADAPTER UNIVERSAL INPUT  
SINGLE OUTPUT 100 WATTS SWITCHING POWER SUPPLIES  
HES102 SERIES**



**FEATURES:**

- ACCOMMODATE UNIVERSAL AC INPUT
- DESKTOP IEC320-3P 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 AC receptacle.  
**Input Frequency:** 50-60Hz.  
**Inrush Current:** 32.5A @230Vac by adding thermistor.  
**Input Current:** 1.6A @115Vac &  
 0.75A @230Vac typical.  
**Dielectric Withstand:** Meet IEC60950.  
**EMI:** Meet EN55022 / FCC Class B.  
**Hold-up Time:** 10mS @115Vac & 56mS @230Vac.  
**Earth Leakage:** 0.45mA @230Vac.

**OUTPUT SPECIFICATION**

**Output Voltage:** See Ratings Chart.  
**Output Current:** See Ratings Chart.  
**Output Wattage:** 100 Watt typical.  
**Output Connector & Cord:** Option.  
**Line Regulation:** 1% typical.  
**Load Regulation:** ± 1.7% typical.  
**Noise & Ripple:** 1.3% typical peak to peak.  
**OVP:** Built-in, Latched circuit.  
**Adjustability:** Factory set.  
**Overload Protection (OLP):**  
 Fully protected against output overload and short circuit.  
 Typical 120-150% max. load.  
 Consult the factory for special OLP setting.

**GENERAL SPECIFICATION**

**Efficiency:** 80% typical.  
**Switching Frequency:** Approximate 62K Hz.  
**Circuit Topology:** Fixed frequency Forward circuit.  
**Transient Response:** Output voltage returns in about  
 1mS following a 25% load change.  
**Safety Standard:** Meet UL60950/EN60950 Class I.  
**Power Density:** 2.44 Watts / Cubic inch.

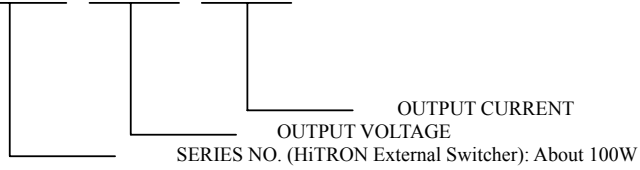
**Operating Temperature:** 0 to +25/35/40°C  
 without derating. (various with output voltage)  
**Storage Temperature:** -20 to +85°C.  
**Temperature Coefficient:** 0.04%/°C.  
**Cooling:** Internal fan installed.  
**Construction:** Impact resistant thermo- plastic enclosure.  
**Power Factor:** 0.69 @115Vac./ 0.73@230Vac.  
**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 typical cord length is about 1 meter (3.3 ft.), AWG#18 cord for various load conditions.  
 (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: HES102 - X X X Y Y Y**



**OUTPUT VOLTAGE/CURRENT RATINGS CHART**

**SINGLE OUTPUT**

MODEL NO.	AC PLUG	O/P VOLTAGE	O/P CURRENT
HES102-033170	DT7	3.3Vdc	17.0A
HES102-050150	DT7	5.0Vdc	15.0A
HES102-060140	DT7	6.0Vdc	14.0A
HES102-090100	DT7	9.0Vdc	10.0A
HES102-120085	DT7	12.0Vdc	8.5A
HES102-135075	DT7	13.5Vdc	7.5A
HES102-150068	DT7	15.0Vdc	6.8A
HES102-240042	DT7	24.0Vdc	4.2A
HES102-280036	DT7	28.0Vdc	3.6A
HES102-360028	DT7	36.0Vdc	2.8A
HES102-480021	DT7	48.0Vdc	2.1A

**MECHANICAL DIMENSIONS: MM [INCHES]**

**WEIGHT: 746.6g(26.33 Oz.)**

