



## **HARMONIC CORRECTION (PFC) AC/DC EXTERNAL DESKTOP ADAPTER UNIVERSAL INPUT SINGLE OUTPUT 68 WATTS SWITCHING POWER SUPPLIES HEP70 SERIES**



### **FEATURES:**

- ACCOMMODATE UNIVERSAL AC INPUT
- DESKTOP IEC320-3PL/2P AC RECEPTACLE
- MEET IEC61000-3-2 HARMONIC CORRECTION
- MEET UNIVERSAL SAFETY STANDARDS
- EMI MEET EN 55022/FCC CLASS B
- CE MARKING COMPLIANCE

### **SPECIFICATION**

#### **INPUT SPECIFICATION**

**Input Voltage:** 90-264Vac typical.  
Power Factor Correction (PFC) installed.  
**Input Connector:** IEC320-3PL or 2P AC receptacle.  
**Input Frequency:** 47-63Hz.  
**Inrush Current:** 60A@230Vac.  
**Input Current:** 0.7A@115Vac & 0.37A@230Vac typical.  
**Dielectric Withstand:** Meet IEC60950-1.  
**EMI:** Meet EN55022 / FCC Class B.  
**Power Factor Correction:** Meet IEC61000-3-2 Harmonic Correction. PF typ. 0.95-0.99.  
**Hold-up Time:** 16mS @115Vac typical.  
38.4mS @230Vac typical.  
**Over Temp. Protection (OTP):** Installed.  
**Earth Leakage:** 0.34mA @230Vac.

#### **OUTPUT SPECIFICATION**

**Output Voltage:** See Ratings Chart.  
**Output Current:** See Ratings Chart.  
**Output Wattage:** 68 Watt typical.  
**Connector & Cord:** Optional.  
**Line Regulation:** 0.1% typical.  
**Load Regulation:**  $\pm 3.0\%$  typical.  
**Noise & Ripple:** 1.0% typical peak to peak.  
**OVP:** Built-in. (Latch).  
**Adjustability:** Factory set.  
**Overload Protection:**  
Fully protected against output overload and short circuit.  
OLP typically set at 116% max. load.  
Consult the factory for special OLP setting.

#### **GENERAL SPECIFICATION**

**Efficiency:** 87.0% typical.  
**Switching Frequency:** Approximate 65K-73K Hz.  
**Circuit Topology:** Fixed frequency Flyback circuit.  
**Transient Response:** Output voltage returns in about 0.4mS following a 50% load change.  
**Safety Standard:** Meet UL60950-1/EN60950-1 DT7 for Class I DT8 for Class II.  
**Power Density:** 5.83 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 typical.  
**Cooling:** Free air convection cooling.  
**Construction:** Impact resistant thermo- plastic enclosure.  
**Desktop Format.**

NOTE: (1) All measurements are at nominal input, full load, and +25°C unless otherwise specified.

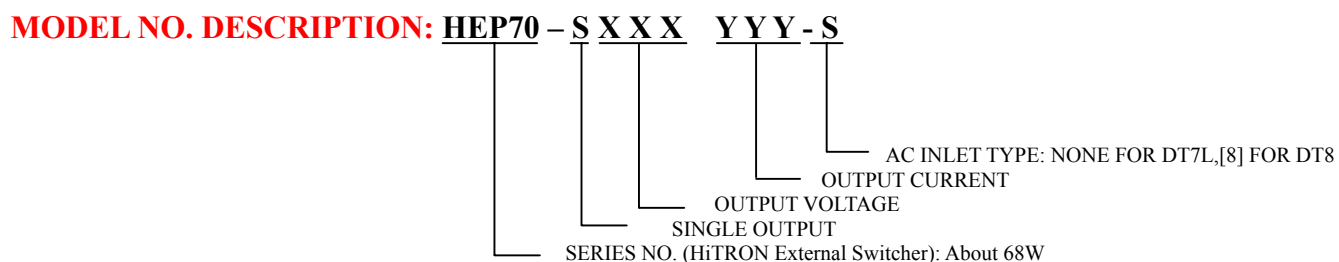
(2) Load regulation is measured at 115Vac or 230Vac in percentage to indicate the change in output voltage as the load is varied from half load to full load ( $\pm\%$ ).

(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.



In application



## OUTPUT VOLTAGE/CURRENT RATINGS CHART

### SINGLE OUTPUT

| MODEL NO.       | AC PLUG | O/P VOLTAGE | O/P CURRENT |
|-----------------|---------|-------------|-------------|
| HEP70-S175400   | DT7L    | 17.5Vdc     | 4.0A        |
| HEP70-S175400-8 | DT8     | 17.5Vdc     | 4.0A        |
| HEP70-S180380   | DT7L    | 18.0Vdc     | 3.8A        |
| HEP70-S180380-8 | DT8     | 18.0Vdc     | 3.8A        |
| HEP70-S190370   | DT7L    | 19.0Vdc     | 3.7A        |
| HEP70-S190370-8 | DT8     | 19.0Vdc     | 3.7A        |
| HEP70-S200360   | DT7L    | 20.0Vdc     | 3.6A        |
| HEP70-S200360-8 | DT8     | 20.0Vdc     | 3.6A        |

**MECHANICAL DIMENSIONS: MM [INCHES]**

**WEIGHT: 324.0g (11.5 Oz.)**

