

# HiTRON

## HARMONIC CORRECTION (PFC) AC/DC EXTERNAL DESKTOP ADAPTER UNIVERSAL INPUT SINGLE OUTPUT 95-103 WATTS SWITCHING POWER SUPPLIES HEP103 SERIES



### FEATURES:

- ACCOMMODATE UNIVERSAL AC INPUT
- DESKTOP IEC320-3P AC RECEPTACLE
- MEETS IEC 61000-3-2 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:** IEC320-3P AC receptacle.  
**Input Frequency:** 47-63Hz.  
**Inrush Current:** Cold start 29A @230Vac.  
**Input Current:** 1.1A @115Vac &  
0.55A @230Vac typical.  
**Dielectric Withstand:** Meet IEC950.  
**EMI:** Meet EN55022 / FCC Class B.  
**Hold-up Time:** 23mS typical @115Vac & 230Vac.  
**Over Temp. Protection (OTP):** Installed.  
**Earth Leakage:** 0.70mA @230Vac.

#### OUTPUT SPECIFICATION

**Output Voltage:** See Ratings Chart.  
**Output Current:** See Ratings Chart.  
**Output Wattage:** 95-103 Watts typical.  
**Output Connector & Cord:** Optional.  
**Line Regulation:** 0.1% typical.  
**Load Regulation:** ± 1.5-3.0% typical.  
**Noise & Ripple:** 0.5-1.0% typical peak to peak.  
**OVP:** Built-in, Latched circuit.  
**Adjustability:** Factory set, not available.  
**Overload Protection:**  
Typical 110-130% of max. power overrange or short circuit, power foldback & self-recovering.

#### GENERAL SPECIFICATION

**Efficiency:** 80.0% typical.  
**Switching Frequency:** Approximate 165k Hz.  
**Circuit Topology:** Fixed frequency Forward circuit.  
**Transient Response:** Output voltage returns in about 0.1mS following a 25% load change.  
**Safety Standard:** UL1950/EN60950 Class I. Harmonic Current Emission, EN61000-3-2 compliance.  
**Power Density:** 2.5 Watts / Cubic inch.

**Operating Temperature:** 0 to +40°C.  
**Storage Temperature:** -20°C to +85°C.  
**Temperature Coefficient:** 0.04%/°C.  
**Cooling:** Internal fan installed.  
**Construction:** Impact resistant thermo- plastic enclosure.  
**Power Factor:** 0.99 @115Vac.  
**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 (±%).

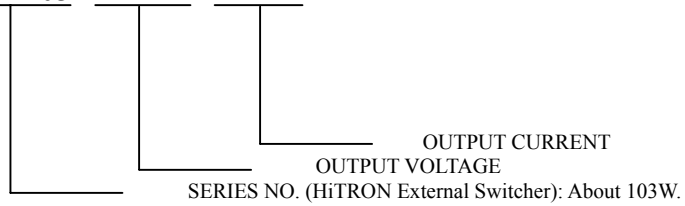
(3) The typical cord length is about 1 meter (3.3 ft.), AWG#18 cord for various load conditions.



In application

Due to requests in market and advances in technology, specifications subject to change without notice.

**MODEL NO. DESCRIPTION: HEP103 - X X X Y Y Y**



**OUTPUT VOLTAGE / CURRENT RATINGS CHART**

DEFINED OUTPUT VOLTAGE (Vdc)	OUTPUT VOLTAGE (Vdc) / CURRENT (A)		
5.0Vdc ≤ Any Voltage ≤ 48.0 Vdc	5.0-5.9V/16.0-14.1A,	6.0-6.9V/14.0-12.8A,	7.0-7.9V/12.7-11.8A,
	8.0-8.9V/11.7-11.0A,	9.0-10.0V/11.0-10.0A,	10.1-11.9V/9.9-8.5A,
	12.0-12.5V/8.5-8.0A,	12.6-13.0V/8.0-7.8A,	13.1-13.9V/7.7-7.3A,
	14.0-14.9V/7.2-6.8A,	15.0-15.9V/6.8-6.3A,	16.0-17.9V/6.3-5.7A,
	18.0-20.9V/5.6-4.8A,	21.0-23.0V/4.8-4.4A,	23.1-24.0V/4.4-4.2A,
	48.0V/2.1A.		

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 (Vdc)	O/P CURRENT (A)
HEP103-050160	5.0V	16.0A
HEP103-060140	6.0V	14.0A
HEP103-090110	9.0V	11.0A
HEP103-120085	12.0V	8.5A
HEP103-150068	15.0V	6.8A
HEP103-180056	18.0V	5.6A
HEP103-240042	24.0V	4.2A
HEP103-480021	48.0V	2.1A

**MECHANICAL DIMENSIONS: MM [INCHES]**

**WEIGHT: 777g (27.4 Oz.)**

