

# Hi HiTRON

## UNIVERSAL INPUT AC-DC EXTERNAL DESKTOP SWITCHING ADAPTER 42 WATTS GREEN POWER SINGLE OUTPUT HEG42 SERIES



### FEATURES:

- ACCOMMODATE UNIVERSAL AC INPUT
- DESKTOP IEC320-C14/C6/C8 AC INLET
- NO LOAD POWER CONSUMPTION < 0.3W
- MEET UNIVERSAL SAFETY STANDARDS
- EMI MEET EN55022 / FCC CLASS B
- CE MARKING COMPLIANCE

### SPECIFICATION

#### INPUT SPECIFICATION

**Input Voltage:** Typical 90-264Vac.  
**Input Connector:** 3 pole AC inlet IEC320-C14(DT7) /  
 3 pole AC inlet IEC320-C6(DT7L) /  
 2 pole AC inlet IEC320-C8(DT8).  
**Input Frequency:** 47-63Hz.  
**Inrush Current:** Typical 8.0Arms at 230Vac.  
**Input Current:** Typical 0.63A at 115Vac, 0.35A at 230Vac.  
**Dielectric Withstand:** Meet IEC60950-1.  
**EMI:** Meet EN55022 / FCC Class B.  
**Hold-up Time:** Typical 15.6mS at 115Vac,  
 Typical 89.6mS at 230Vac.  
**Leakage Current:** Less than 0.17mA for class II,  
 Less than 0.4mA for class I.  
**No Load Power:** Typical 0.16W at 132Vac,  
 Typical 0.26W at 264Vac.

#### OUTPUT SPECIFICATION

**Output Voltage:** See Ratings Chart.  
**Output Current:** See Ratings Chart.  
**Output Wattage:** Typical 42-48 Watts.  
**Output Connector & Cord:** Optional.  
**Line Regulation:** Typical 0.5%.  
**Load Regulation:** Typical  $\pm 3.0\%$ .  
**Tolerance:** Typical  $\pm 5\%$ .  
**Noise & Ripple:** Typical 1.0% peak to peak.  
**OVP:** Built-in, Latch.  
**Overload Protection:**  
 Fully protected against output overload or short circuit.  
 Typical set at 105-140% at 115Vac.  
 Consult the factory for special OLP setting.

#### GENERAL SPECIFICATION

**Efficiency:** Typical 87-88%. (various with output voltage)  
**Switching Frequency:** Approximate 59-63KHz.  
**Circuit Topology:** Fixed Frequency flyback circuit.  
**Transient Response:** Output voltage returns in less than  
 1mS following a 25% load change.  
**Safety Standard:** Meet UL60950-1/EN60950-1 Class I or II.  
**Operating Temperature:** 0 to +40°C.  
**Storage Temperature:** -20 to +85°C.  
**Cooling:** Free air convection.  
**Construction:** Impact resistant thermo-plastic case.  
**Power Density:** Typ. 3.3-3.8Watts / Cubic inch.  
**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.

(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.

## OUTPUT VOLTAGE / CURRENT RATINGS CHART

### SINGLE OUTPUT *(Model No. for example)*

| MODEL NO.       | AC INLET        | O/P VOLTAGE | O/P CURRENT |
|-----------------|-----------------|-------------|-------------|
| HEG42-120300-7  | IEC320-C14(DT7) | 12.0Vdc     | 3.00A       |
| HEG42-120400-7  | IEC320-C14(DT7) | 12.0Vdc     | 4.00A       |
| HEG42-120400-7L | IEC320-C6(DT7L) | 12.0Vdc     | 4.00A       |
| HEG42-120400-8  | IEC320-C8(DT8)  | 12.0Vdc     | 4.00A       |
| HEG42-150280-7  | IEC320-C14(DT7) | 15.0Vdc     | 2.80A       |
| HEG42-150280-7L | IEC320-C6(DT7L) | 15.0Vdc     | 2.80A       |
| HEG42-150280-8  | IEC320-C8(DT8)  | 15.0Vdc     | 2.80A       |
| HEG42-190220-7  | IEC320-C14(DT7) | 19.0Vdc     | 2.20A       |
| HEG42-190220-7L | IEC320-C6(DT7L) | 19.0Vdc     | 2.20A       |
| HEG42-190220-8  | IEC320-C8(DT8)  | 19.0Vdc     | 2.20A       |
| HEG42-240100-7L | IEC320-C6(DT7L) | 24.0Vdc     | 1.00A       |
| HEG42-240150-7L | IEC320-C6(DT7L) | 24.0Vdc     | 1.50A       |
| HEG42-240200-7L | IEC320-C6(DT7L) | 24.0Vdc     | 2.00A       |
| HEG42-240200-7  | IEC320-C14(DT7) | 24.0Vdc     | 2.00A       |
| HEG42-240200-8  | IEC320-C8(DT8)  | 24.0Vdc     | 2.00A       |

**MECHANICAL DIMENSIONS: MM [INCHES]**

**WEIGHT: 320g(11.30Oz)**

