



# Jasper Electronics

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



### FEATURES:

- ACCOMMODATE UNIVERSAL AC INPUT
- DESKTOP IEC320-3P /3PL/2P AC RECEPTACLE
- GREEN POWER
- MEET UNIVERSAL SAFETY STANDARDS
- EMI MEET EN55022 / FCC CLASS B
- CE MARKING COMPLIANCE

### SPECIFICATION

#### INPUT SPECIFICATION

**Input Voltage:** 90-264Vac typical.  
**Input Connector:** IEC320-3P DT7 or DT7L or 2P DT8 AC inlet receptacle.  
**Input Frequency:** 47-63Hz.  
**Inrush Current:** 8.0Arms @230Vac typical.  
**Input Current:** 0.63A @115Vac & 0.35A @230Vac typical.  
**Dielectric Withstand:** Meet IEC60950-1.  
**EMI:** Meet EN55022 / FCC Class B.  
**Hold-up Time:** 15.6mS @115Vac typical.  
 89.6mS @230Vac typical.  
**Green Power:** 0.157W@131Vac & 0.256W @ 264Vac  
**Earth Leakage:** Less than 0.17mA for class II or  
 Less than 0.4mA for class I

#### OUTPUT SPECIFICATION

**Output Voltage:** See Ratings Chart.  
**Output Current:** See Ratings Chart.  
**Output Wattage:** 42 Watt typical.  
**Output Connector & Cord:** Optional.  
**Line Regulation:** 0.5% typical.  
**Load Regulation:** ±3.0% typical.  
**Tolerance:** ±5%.  
**Noise & Ripple:** 1.0% typical 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:** 87-88% typical.  
**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.  
**Power Density:** Typ. 3.3Watts / 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:** Free air convection.  
**Construction:** Impact resistant thermo-plastic 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(±%)  
 (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.

## OUTPUT VOLTAGE/CURRENT RATINGS CHART

### SINGLE OUTPUT

MODEL NO.	AC PLUG	O/P VOLTAGE	O/P CURRENT
HEG42-120400-7	DT7	12.0Vdc	4.00A
HEG42-120400-8	DT8	12.0Vdc	4.00A
HEG42-150280-7	DT7	15.0Vdc	2.80A
HEG42-150280-8	DT8	15.0Vdc	2.80A
HEG42-190220-7	DT7	19.0Vdc	2.20A
HEG42-190220-8	DT8	19.0Vdc	2.20A
HEG42-240100-7L	DT7L	24.0Vdc	1.00A
HEG42-240150-7L	DT7L	24.0Vdc	1.50A
HEG42-240200-7L	DT7L	24.0Vdc	2.00A
HEG42-240200-7	DT7	24.0Vdc	2.00A
HEG42-240200-8	DT8	24.0Vdc	2.00A

**MECHANICAL DIMENSIONS: MM [INCHES]**

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

