

## UNIVERSAL INPUT AC TO DC MEDICAL APPLICATION EXTERNAL ADAPTER SINGLE OUTPUT 45-50 WATTS SWITCHING POWER SUPPLIES HES49 SERIES



### FEATURES:

- ACCOMMODATE UNIVERSAL AC SOURCES
- DESKTOP IEC320-2P/3P AC RECEPTACLE
- MEET MEDICAL STANDARDS EN60601/ UL2601
- EMI MEET EN 55022/ FCC CLASS B
- CE MARKING COMPLIANCE

### SPECIFICATION

#### INPUT SPECIFICATION

**Input Voltage:** 90-264Vac typical.  
**Input Connector:** IEC320-3P DT7 or 2P DT8  
AC input receptacle.  
**Input Frequency:** 47-63Hz.  
**Inrush Current:** 32A @230Vac.  
**Input Current:** 0.79A@115Vac & 0.37A @230Vac.  
**Dielectric Withstand:** Meet IEC601.  
**EMI:** Meet EN55022 / FCC Class B.  
**Hold-up Time:** 15mS @115Vac.  
60mS @230Vac.  
**Over Temp. Protection:** Optional (NTC ckt.).  
**Earth Leakage:** Less than 0.1 mA.

#### OUTPUT SPECIFICATION

**Output Voltage:** See Ratings Chart.  
**Output Current:** See Ratings Chart.  
**Output Wattage:** 45-50Watts typical.  
**Output Connector & Cord:** Optional.  
**Line Regulation:** 0.1% typical.  
**Load Regulation:** ±1.5-3.0% typical.  
**Noise & Ripple:** Typ. 1.0% peak to peak.  
**OVP:** Built-in by latch circuit.  
**Adjustability:** Factory set.  
**Over Current Protection (OCP):** Installed.  
Current limiting can be set precisely as per request.

#### GENERAL SPECIFICATION

**Efficiency:** 85-87% typical.  
**Switching Frequency:** Typ. 85 ~ 110K Hz.  
**Circuit Topology:** Fixed Frequency flyback circuit.  
**Transient Response:** Output voltage returns in  
less than 3mS following a 25% load change.  
**Safety Standard:** Medical standards IEC601/EN60601/  
UL2601, Class I for DT7, or Class II for DT8 type.  
**Power Density:** 3.3Watts. / Cubic Inch.

**Operating Temperature:** 0 to +40°C  
**Storage Temperature:** -20 to +85°C.  
**Temperature Coefficient:** 0.04% /°C  
**Cooling:** Free air convection.  
**Construction:** Impact resistant thermo-plastic  
enclosure case.  
**Desktop Format.**

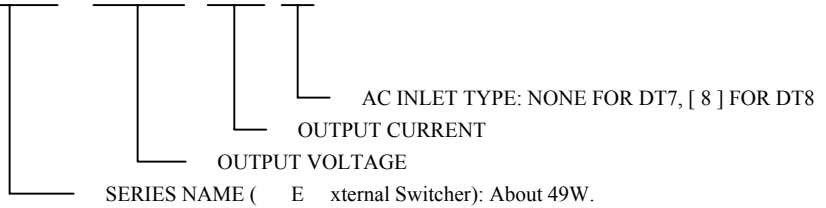
Note: (1) All measurements are at nominal input, full load, and +25°C unless otherwise specified.

(2) Load regulation is measured at 115Vac or 230Vac in percentage to 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.



**MODEL NO. DESCRIPTION: HES49 - X X X Y Y - S**



**OUTPUT VOLTAGE / CURRENT RATINGS CHART**

**SINGLE OUTPUT**

MODEL NO.	AC TYPE.	OUTPUT VOLTAGE	OUTPUT CURRENT
HES49-05060	DT7	5.0Vdc	6.0A
HES49-07550	DT7	7.5Vdc	5.0A
HES49-12040	DT7	12.0Vdc	4.0A
HES49-15033	DT7	15.0Vdc	3.3A
HES49-24021	DT7	24.0Vdc	2.1A
HES49-30017	DT7	30.0Vdc	1.7A
HES49-12040-8	DT8	12.0Vdc	4.0A
HES49-15033-8	DT8	15.0Vdc	3.3A
HES49-24021-8	DT8	24.0Vdc	2.1A
HES49-30017-8	DT8	30.0Vdc	1.7A

**MECHANICAL DIMENSIONS: MM [INCHES]**

**WEIGHT: 373.0g (13.2 Oz.)**

