

## H HITRON

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



#### **FEATURES:**

- ACCOMMODATE UNIVERSAL AC SOURCES
- DESKTOP IEC320-2P/3P AC RECEPTACLE
- MEET MEDICAL STANDARDS EN60601-1/ UL2601-1
- EMI MEET EN 55011/ 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 IEC60601-1.

EMI: Meet EN55011 / FCC Class B.

Hold-up Time: 15mS @115Vac typical.

60mS @230Vac typical.

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: 1.0% typical 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.

Overload Protection(OLP):

Fully protected against output overload and short circuit. OLP set at about 125-150% rating output wattage.

Consult the factory for OLP setting.

#### GENERAL SPECIFICATION

Efficiency: 85-87% typical.

Switching Frequency: 85-110K Hz typical.

Circuit Topology: Fixed Frequency Flyback circuit.

Transient Response: Output voltage returns in less than

3mS following a 25% load change.

Safety Standard: Meet Medical standards UL2601-1/

EN60601-1, Class I for DT7 or Class II for DT8 type.

Power Density: 3.3Watts. / Cubic inch.

**Operating Temperature:** 0°C to room temperature.

**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.

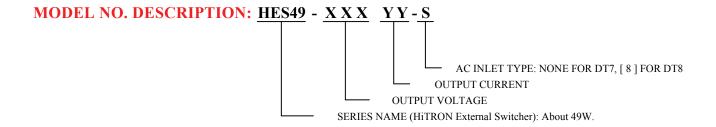
- (2) Load regulation is measured at 115Vac or 230Vac in percentage to indicate the change in output voltage as the load varied from half load to full load (±%).
- (3) The exact obtainable load regulation depends upon the output cord selected and load current. Upper data are for 6 ft. (2 m)cord AWG#18 wires.
- (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
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
HES49-30020	DT7	30.0Vdc	2.0A
HES49-12040-8	DT8	12.0Vdc	4.0A
HES49-15033-8	DT8	15.0Vdc	3.3A
HES49-24021-8	DT8	24.0Vdc	2.1A
HES49-30020-8	DT8	30.0Vdc	2.0A

**MECHANICAL DIMENSIONS: MM [INCHES]** WEIGHT: 373.0g (13.2 Oz.)

