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	OUTPUT SPECIFICATION		
Input Voltage: 90-264Vac typical.	Output Voltage: See Ratings Chart.		
Input Connector: IEC320-3P DT7 or 2P DT8	Output Current: See Ratings Chart. Output Wattage: 45-50Watts typical.		
AC input receptacle.	Output Connector & Cord: Optional.		
Input Frequency: 47-63Hz.	Line Regulation: 0.1% typical.		
Inrush Current: 32A @230Vac.	Load Regulation: ±1.5-3.0% typical.		
Input Current: 0.79A@115Vac & 0.37A @230Vac.	Noise & Ripple: 1.0% typical peak to peak. OVP: Built-in by latch circuit.		
Dielectric Withstand: Meet IEC60601-1.	Adjustability: Factory set.		
EMI: Meet EN55011 / FCC Class B.	Over Current Protection (OCP): Installed.		
Hold-up Time: 15mS @115Vac typical.	Current limiting can be set precisely as per request.		
60mS @230Vac typical.	Overload Protection(OLP): Fully protected against output overload and short circuit.		
Over Temp. Protection: Optional (NTC ckt.).	OLP set at about 125-150% rating output wattage.		
Earth Leakage: Less than 0.1 mA.	Consult the factory for OLP setting.		
GENERAL SPECIFICATION			

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.

Power Density: 3.3Watts. / Cubic inch. **Desktop Format.** NOTE: (1) All measurements are at nominal input, full load, and +25°C unless otherwise specified.

3mS following a 25% load change.

(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.



Efficiency: 85-87% typical.

Switching Frequency: 85-110K Hz typical.

Circuit Topology: Fixed Frequency Flyback circuit.

Transient Response: Output voltage returns in less than

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

Safety Standard: Meet Medical standards UL2601-1/



For the details of safety approval, please consult the factory.

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

AC INLET TYPE: NONE FOR DT7, [8] FOR DT8 OUTPUT CURRENT OUTPUT VOLTAGE SERIES NAME (HiTRON External Switcher): About 49W.

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.)

