

UNIVERSAL INPUT AC TO DC MEDICAL APPLICATION EXTERNAL ADAPTOR SINGLE OUTPUT 45-50 WATTS SWITCHING POWER SUPPLIES APS49ES SERIES



FEATURES:

- ACCOMMODATES UNIVERSAL AC SOURCES
- DESKTOP IEC320-2P/3P AC RECEPTACLE
- MEETS MEDICAL STANDARDS EN60601/ UL2601
- EMI MEETS 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: Meets IEC601
EMI: Meets EN55022 / FCC Class B
Hold-up Time: 15mS @ 115Vac
 60mS @ 230Vac
Over Temp. Protection: Optional (NTC circuit)
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 to 110KHz
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 / Inch³
Operating Temperature: 0 to +40°C
Storage Temperature: -20°C to +85°C
Temperature Coefficient: 0.04% per °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.

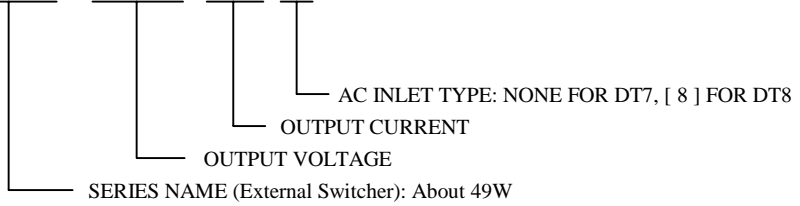
(2) Load regulation is measured at 115Vac or 230Vac in percentage to indicate the change in output voltage as the load varied from half load to full load (±%).

(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.



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

MODEL NO. DESCRIPTION: APS49ES - X X X Y Y - S



OUTPUT VOLTAGE / CURRENT RATINGS CHART

SINGLE OUTPUT

MODEL NO.	AC TYPE.	OUTPUT VOLTAGE	OUTPUT CURRENT
APS49ES-05060	DT7	5.0Vdc	6.0A
APS49ES-07550	DT7	7.5Vdc	5.0A
APS49ES-12040	DT7	12.0Vdc	4.0A
APS49ES-15033	DT7	15.0Vdc	3.3A
APS49ES-24021	DT7	24.0Vdc	2.1A
APS49ES-30017	DT7	30.0Vdc	1.7A
APS49ES-12040-8	DT8	12.0Vdc	4.0A
APS49ES-15033-8	DT8	15.0Vdc	3.3A
APS49ES-24021-8	DT8	24.0Vdc	2.1A
APS49ES-30017-8	DT8	30.0Vdc	1.7A

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 373g (13.2 Oz).

