

APS

Advanced Power Solutions

3/28/2001

UNIVERSAL INPUT AC TO DC MEDICAL APPLICATION EXTERNAL ADAPTOR SINGLE OUTPUT 22-24 WATTS SWITCHING POWER SUPPLIES APS22ES SERIES



FEATURES:

- UNIVERSAL AC SOURCES
- DESKTOP IEC320 AC RECEPTACLE
- MEDICAL STANDARDS EN6061/UL2601
- EMI MEETS EN55022 / FCC CLASS B
- CE MARKING COMPLIANCE

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: Typ. 90-264Vac
Input Connector: IEC320-3P DT7 AC receptacle
Input Frequency: 47-63Hz
Inrush Current: 35A @ 230Vac. typical or less than
30A by adding thermister
Input Current: Typ. 0.38A @ 115Vac. &
0.15A @ 230Vac
Dielectric Withstand: Meets IEC601
EMI: Meet EN 55022 Class B
Hold-up Time: Typ.16mS @ 115Vac or
64mS @ 230Vac
Earth Leakage: Less than 0.1 mA

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart
Output Current: See Ratings Chart
Output Wattage: 22-24W typical
Output Connector & Cord: Optional
Line Regulation: Typ. 0.1%
Load Regulation: Typ. $\pm 1.5-3.0\%$
Noise & Ripple: Typ.1.0% peak to peak
OVP: Built-in, by latched circuit
Adjustability: Factory set
Overload Protection: Typ.115-130% of max. power
of over-range or short circuit, power foldback &
self-recovering

GENERAL SPECIFICATION

Efficiency: Typ. 80%
Switching Frequency: Typ. 75KHz
Circuit Topology: Fixed Frequency flyback circuit
Transient Response: Output voltage returns in less than
3mS following a 50% load change
Safety Standard: IEC601/EN 60601/UL 2601 Class I
for medical applications
Power Density: 1.75W / 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 construction format

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

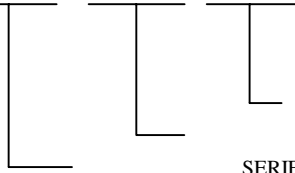
(2) Load regulation is measured at 115Vac or 230Vac in percentage to indicate the change in output voltage as the load varied from half load to full load(\pm •).

(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.



In application

MODEL NO. DESCRIPTION: APS22ES - X X X Y Y Y



OUTPUT CURRENT
 OUTPUT VOLTAGE
 SERIES NAME (APS External Switcher) : About 22W

OUTPUT VOLTAGE/CURRENT RATINGS CHART

SINGLE OUTPUT

MODEL NO.	AC PLUG	OUTPUT CURRENT (Vdc)	OUTPUT CURRENT (A)
APS22ES-033400	DT7	3.3Vdc	4.00A
APS22ES-050400	DT7	5.0Vdc	4.00A
APS22ES-075300	DT7	7.5Vdc	3.00A
APS22ES-090250	DT7	9.0Vdc	2.50A
APS22ES-120200	DT7	12.0Vdc	2.00A
APS22ES-150160	DT7	15.0Vdc	1.60A
APS22ES-210115	DT7	21.0Vdc	1.15A
APS22ES-240100	DT7	24.0Vdc	1.00A
APS22ES-300080	DT7	30.0Vdc	0.80A

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 206g (6.23Oz.).

