

APS

Advanced Power Solutions

4/6/01

UNIVERSAL INPUT AC TO DC EXTERNAL DESKTOP ADAPTOR SINGLE OUTPUT 50-54 WATTS SWITCHING POWER SUPPLIES APS52ES SERIES



FEATURES:

- ACCOMMODATES UNIVERSAL AC INPUT
- DESKTOP IEC320-3P AC RECEPTACLE
- MEETS UNIVERSAL SAFETY STANDARDS
- EMI MEETS EN55022 / FCC CLASS B
- CE MARKING COMPLIANCE

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: 90-264Vac typical
Input Connector: IEC320-3P DT7 or DT7L
AC inlet receptacle
Input Frequency: 47 to 63Hz
Inrush Current: 30A @ 230Vac
Input Current: 0.9A @ 115Vac & 0.4A @ 230Vac
Dielectric Withstand: Meets IEC950
EMI: Meets EN55022 / FCC Class B
Hold-up Time: 15mS typ. @ 115 Vac
75mS typ. @ 230Vac
Over Temperature Protection: Optional
Over Current Protection (OCP): Optional

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart
Output Current: See Ratings Chart
Output Wattage: Typ. 50-54W
Output Connector & Cord: Optional
Output LED: Installed
Line Regulation: 0.1% typical
Load Regulation: ± 1.5 to 3.0% typical
Noise & Ripple: Typ. 1.0% peak to peak
OVP: Built-in, Zener diode clamping
Adjustability: Factory set
Overload Protection: Typ. 125-150% of max. power
Over-range or short circuit, power foldback
& self-recovering

GENERAL SPECIFICATION

Efficiency: Typ. 80 to 85%
Switching Frequency: Approximate 77KHz
Circuit Topology: Fixed Frequency flyback circuit
Transient Response: Output voltage returns in
less than 3mS following a 25% load change
Safety Standard: UL1950/EN60950 Class I
Power Density: 4.1Watts. / 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 case
Desktop Format

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

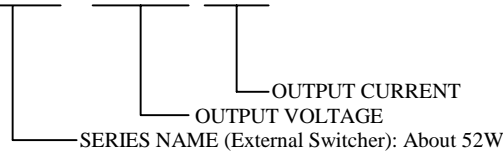
(2) Load regulation is measured at 115Vac or 230Vac in percentage to indicate the change in output voltage as the load is varied from half load to full load ($\pm\%$).

(3) The exact obtainable load regulation depends upon the output cord selected & 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: APS52ES - X X X YYY



OUTPUT VOLTAGE/CURRENT RATINGS CHART

| DEFINED OUTPUT VOLTAGE (Vdc) | OUTPUT VOLTAGE (Vdc) / CURRENT (A) | | |
|---------------------------------|--|--|--|
| 3.3Vdc < Any Voltage > 15.0Vdc | 3.3-4.0V/6.5-6.23A, 6.7-7.8V/5.58-5.3A, 10.1-11.2V/4.68-4.4A, 13.1-13.8V/3.97-3.8A, | 4.1-5.0V/6.2-6.0A, 7.9-9.0V/5.28-5.0A, 11.3-12.0V/4.38-4.2A, 13.9-15.0V/3.78-3.4A | 5.1-6.6V/5.98-5.6A, 9.1-10.0V/4.97-4.7A, 12.1-13.0V/4.18-4.0A, |
| 15.0Vdc < Any Voltage > 24.0Vdc | 15.1-16.0V/3.39-3.3A, 19.1-20.0V/2.69-2.6A, 22.1-23.0V/2.39-2.3A, | 16.1-17.5V/3.28-3.0A, 20.1-21.0V/2.59-2.5A, 23.1-24.0V/2.29-2.2A | 17.6-19.0V/2.98-2.7A, 21.1-22.0V/2.49-2.4A, |

Note: Refer to the upper Chart or specify the V/A ratings and consult factory for the exact Model No.

SINGLE OUTPUT (Model No. for example.)

| MODEL NO. | O/P VOLTAGE (Vdc) | O/P CURRENT (A) |
|----------------|-------------------|-----------------|
| APS52ES-033650 | 3.3V | 6.5A |
| APS52ES-050600 | 5.0V | 6.0A |
| APS52ES-090500 | 9.0V | 5.0A |
| APS52ES-120420 | 12.0V | 4.2A |
| APS52ES-150340 | 15.0V | 3.4A |
| APS52ES-190270 | 19.0V | 2.7A |
| APS52ES-240220 | 24.0V | 2.2A |

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 185g (6.53 Oz)

