

## UNIVERSAL INPUT AC TO DC EXTERNAL DESKTOP ADAPTOR 60-65 WATTS SINGLE OUTPUT SWITCHING POWER SUPPLIES APS65ES SERIES



### FEATURES:

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

### SPECIFICATION

#### INPUT SPECIFICATION

**Input Voltage:** 90-264Vac typical  
**Input Connector:** IEC320 3P-AC inlet receptacle  
**Input Frequency:** 47 to 63Hz  
**Inrush Current:** Less than 30A by adding thermister  
**Input Current:** 1.3A @ 115Vac./0.55A @ 230Vac typical  
**Dielectric Withstand:** Meets IEC950  
**EMI:** Meets EN55022 / FCC Class B  
**Hold-up Time:** 12mS @ 115Vac or  
 75mS @ 230Vac typical  
**Over Temp. Protection (OTP):** Optional  
**Over Current Protection (OCP):** Optional

#### OUTPUT SPECIFICATION

**Output Voltage:** See Ratings Chart  
**Output Current:** See Ratings Chart  
**Output Wattage:** Typical 60 to 65W  
**Output Connector & Cord:** Optional  
**Line Regulation:** 0.1% typical  
**Load Regulation:** ±3.0 to 5.0% typical  
**Noise & Ripple:** Typ. 1.0% peak to peak  
**OVP:** Built-in, Zener Diode clamping  
**Overload Protection:** Typ. 125-150% of max power  
 over-range or short circuit, power foldback  
 & self-recovering

#### GENERAL SPECIFICATION

**Efficiency:** 80% to 86% typical  
**Switching Frequency:** Approximate 85KHz  
**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:** 4.2 Watts / Inch<sup>3</sup>

**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

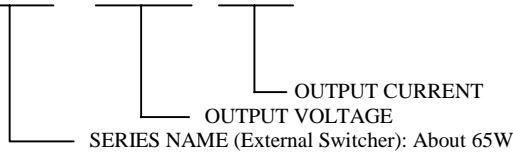
**Desktop Format**

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 (±%).  
 (3) The typical cord length is about 1 meter (3.3 ft.), AWG#18 cord for various load conditions.



In application

**MODEL NO. DESCRIPTION: APS65ES - X X X Y Y Y**



**OUTPUT VOLTAGE / CURRENT RATINGS CHART**

DEFINED OUTPUT VOLTAGE(Vdc)	OUTPUT VOLTAGE (Vdc) / CURRENT (A)		
<b>3.3 Vdc &lt; Any Voltage &gt; 18.0 Vdc</b>	3.3-5.0V/8.0-7.5A, 7.1-8.0V/6.89-6.8A, 10.1-12.0V/6.15-5.2A, 16.6-18.0V/3.88-3.6A	5.1-6.0V/7.45-7.0A, 8.1-9.0V/6.79-6.7A, 12.1-15.0V/5.17-4.3A,	6.1-7.0V/6.99-6.9A, 9.1-10.0V/6.65-6.2A, 15.1-16.5V/4.27-3.9A
<b>18.0 Vdc &lt; Any Voltage &gt; 36.0 Vdc</b>	18.1-19.6 V/3.59-3.4A, 22.3-24.7V/2.99-2.7A, 29.1-33.3V/2.29-2.0A,	19.7-20.8V/3.37-3.2A, 24.8-26.6V/2.68-2.5A, 33.4-36.0V/1.99-1.85A,...	20.9-22.2V/3.19-3.0A, 26.7-29.0V/2.49-2.3A, 36.1-48.0V/1.86-1.4A

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.	OUTPUT VOLTAGE (Vdc)	OUTPUT CURRENT (A)
APS65ES-330800	3.3V	8.00A
APS65ES-500750	5.0V	7.50A
APS65ES-090670	9.0V	6.70A
APS65ES-120520	12.0V	5.20A
APS65ES-150430	15.0V	4.30A
APS65ES-180360	18.0V	3.60A
APS65ES-196340	19.6V	3.40A
APS65ES-240277	24.0V	2.77A
APS65ES-360185	36.0V	1.85A
APS65ES-480140	48.0V	1.40A

**MECHANICAL DIMENSIONS: MM[INCHES]**

**WEIGHT: 320g (11.30 Oz)**

