



Advanced Power Solutions

09/20/2001

**U.S. OR EUROPEAN INPUT RANGE AC TO DC EXTERNAL
WALLMOUNT ADAPTERS SINGLE OUTPUT 16-18 WATTS
SWITCHING POWER SUPPLIES APS16ESB OR APS16ESC SERIES**



FEATURES:

- **LOW COST WALLMOUNT ADAPTER**
- **DIVERSE AC PLUGS AVAILABLE**
- **MEETS DIVERSE SAFETY STANDARDS**
- **EMI MEETS EN 55022 OR FCC CLASS B**
- **CE MARKING COMPLIANCE**

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: APS16ESB typ. 90-132Vac, rating 120Vac
APS16ESC typ. 180-264Vac, rating 230Vac

Input Connector: Wallmount Format
APS16ESB: WM1(US 2-blade) / WM2(US 3-blade)
APS16ESC: WM3(Euro-stecker) / WM4(Schuko-stecker)/
WM5(UK) / WM5G(UK) / WM6, 6G(Australia)

Input Frequency: 47-63Hz

Inrush Current: APS16ESB: Typ. 18.0A @ 115Vac
APS16ESC: Typ. 28.0A @ 230Vac. (by thermister)

Input Current: APS16ESB typ. 0.234A @ 115Vac
APS16ESC typ. 0.133A @ 230Vac

Dielectric Withstand: Meets IEC950

EMI: Meets EN 55022 or FCC Class B.

Hold-up Time: Typ. 27.6mS@115Vac./53.6mS@230Vac

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart

Output Current: See Ratings Chart

Output Wattage: Typ. 16-18 Watts

Output Connector: Optional

Line Regulation: Typ. 0.65%

Load Regulation: Typ. $\pm 1.5\%$

Noise & Ripple: Typ. 1.0% peak to peak

OVP: Built-in, By Zener diode clamping

Adjustability: Factory set

Overload Protection (OLP): Fully protected against
output overload and short circuit
Consult the factory for OLP setting

GENERAL SPECIFICATION

Efficiency: Typ. 80%

Switching Frequency: Typ. 65-75KHz @ full load

Circuit Topology: Free-running flyback circuit

Transient Response: Output voltage returns typ. 6mS
following a 25% load change

Safety Standard: UL1950/EN60950 Class I or II

Power Density: 1.45 Watts / Inch³

Operating Temperature: 0 to +40°C

Storage Temperature: -20 to +85°C

Temperature Coefficient: Typ. 0.04% /°C

Cooling: Free air convection

Construction: Impact resistant thermo-plastic
enclosure case

Wallmount format

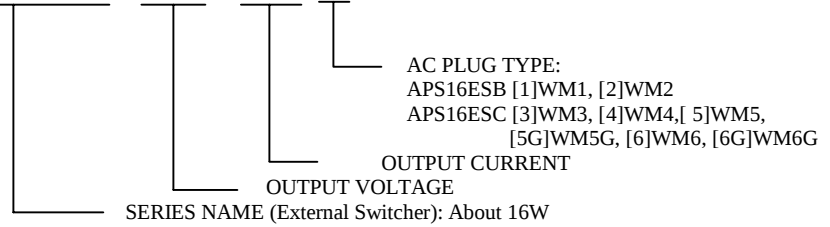
Note:(1) All measurements are at nominal input, full load, and +25°C. unless otherwise specified.

(2) Load regulation is measured at 230Vac or 120Vac in percentage to indicate the change in output voltage as the load varied from half load to full load ($\pm\%$).

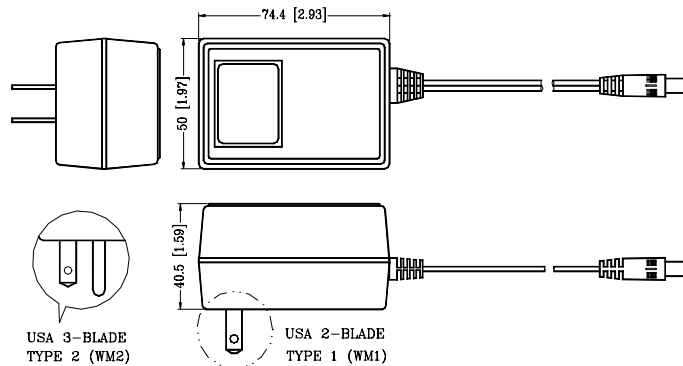
(3) The exact obtainable load regulation depends upon the output cord selected and load current. Upper data are for 6 ft. (2 m) cord AWG#18 wires.

MODEL NO. DESCRIPTION: APS16ESB or C – XXX YYY – S

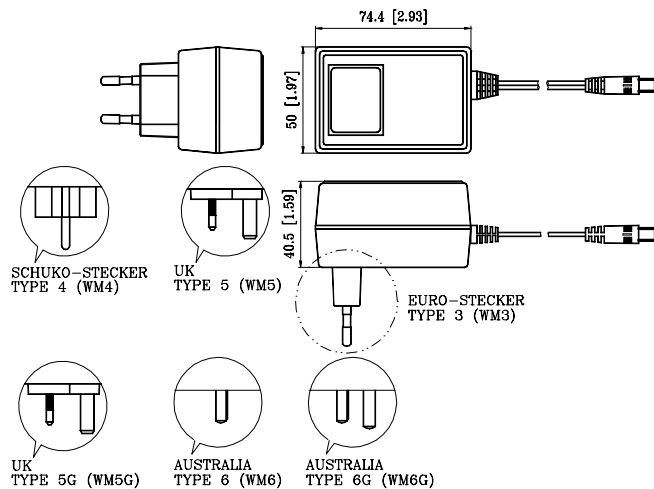
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**OUTPUT VOLTAGE / CURRENT RATINGS CHART**

MODEL NO.	AC INPUT	AC PLUG	VOLTAGE(Vdc)	CURRENT	FORMAT
APS16ESB-050300	120Vac	WM1/2	5.0V	3.00A	Wallmount
APS16ESC-050300	230Vac	WM3/4/5/5G/6/6G	5.0V	3.00A	Wallmount
APS16ESB-065250	120Vac	WM1/2	6.5V	2.50A	Wallmount
APS16ESC-065250	230Vac	WM3/4/5/5G/6/6G	6.5V	2.50A	Wallmount
APS16ESB-075200	120Vac	WM1/2	7.5V	2.00A	Wallmount
APS16ESC-075200	230Vac	WM3/4/5/5G/6/6G	7.5V	2.00A	Wallmount
APS16ESB-090200	120Vac	WM1/2	9.0V	2.00A	Wallmount
APS16ESC-090200	230Vac	WM3/4/5/5G/6/6G	9.0V	2.00A	Wallmount
APS16ESB-100150	120Vac	WM1/2	10.0V	1.50A	Wallmount
APS16ESC-100150	230Vac	WM3/4/5/5G/6/6G	10.0V	1.50A	Wallmount
APS16ESB-120150	120Vac	WM1/2	12.0V	1.50A	Wallmount
APS16ESC-120150	230Vac	WM3/4/5/5G/6/6G	12.0V	1.50A	Wallmount
APS16ESB-150120	120Vac	WM1/2	15.0V	1.20A	Wallmount
APS16ESC-150120	230Vac	WM3/4/5/5G/6/6G	15.0V	1.20A	Wallmount
APS16ESB-240075	120Vac	WM1/2	24.0V	0.75A	Wallmount
APS16ESC-240075	230Vac	WM3/4/5/5G/6/6G	24.0V	0.75A	Wallmount

MECHANICAL DIMENSIONS: MM [INCHES]**WEIGHT: APS16ESB/C 150.0g (5.30 Oz.)**

HES16B



HES16C