



**UNIVERSAL OR U.S. INPUT RANGE AC TO DC EXTERNAL WALLMOUNT ADAPTERS SINGLE OUTPUT 12 WATTS SWITCHING POWER SUPPLIES APS12ES OR APS12ESB 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:** APS12ES typ. 90-264Vac, rating 100-240Vac  
 APS12ESB typ. 90-132Vac, rating 120Vac

**Input Connector:**  
 APS12ES: WM1 (US 2-blade) / WM3 (Euro-stecker) / DT8(IEC320-2P)  
 APS12ESB: WM1 (US 2-blade)

**Input Frequency:** 47-63Hz

**Inrush Current:**  
 APS12ES: Typ. 28A @ 230Vac by adding thermister  
 APS12ESB: Typ. 22.5A @ 115Vac

**Input Current:** APS12ES Typ. 0.15A @ 230Vac  
 APS12ESB Typ. 0.24A @ 115Vac

**Dielectric Withstand:** Meets IEC950

**EMI:** Meets EN 55022 or FCC Class B

**Hold-up Time:** Typ. 13.2mS @ 115Vac / 42.0mS @ 230Vac

**OUTPUT SPECIFICATION**

**Output Voltage:** See Ratings Chart

**Output Current:** See Ratings Chart

**Output Wattage:** Typ. 12 Watts

**Output Connector:** Optional

**Line Regulation:** Typ. 0.1%

**Load Regulation:** Typ. ±2-3%

**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 or short circuit  
 Consult the factory for OLP setting

**GENERAL SPECIFICATION**

**Efficiency:** Typ. 80.5%

**Switching Frequency:** Typ. 56-76KHz. @ full load

**Circuit Topology:** Free-running flyback circuit

**Transient Response:** Output voltage returns typ. 1mS following a 25% load change

**Safety Standard:** UL1950/EN60950 Class II

**Power Density:** 2.3 Watts / Cubic Inch

**Operating Temperature:** 0 to +40°C

**Storage Temperature:** -20 to +85°C

**Temperature Coefficient:** Typ. 0.04% /°C

**Cooling:** Free air convection

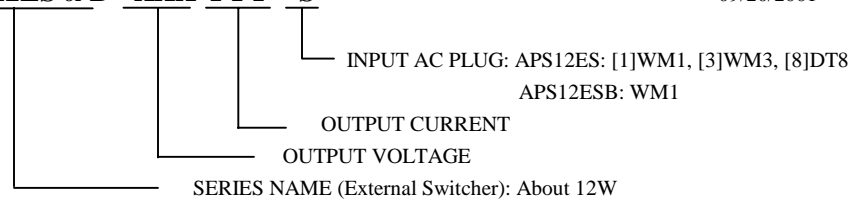
**Construction:** Impact resistant thermo-plastic enclosure case

**Wallmount or Desktop format**

Notes: (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 is 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.

**MODEL NO. DESCRIPTION: APS12ES or B - XXX YYY - S**

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**OUTPUT VOLTAGE/CURRENT RATINGS CHART**

MODEL NO.	AC INPUT	AC PLUG	O/P VOLTAGE	O/P CURRENT	FORMAT
APS12ES-033240-1,3,8	90-264Vac	WM1/WM3/DT8	3.3V	2.40A	Wallmount/Desktop
APS12ESB-033240	120Vac	WM1	3.3V	2.40A	Wallmount
APS12ES-050240-1,3,8	90-264Vac	WM1/WM3/DT8	5.0V	2.40A	Wallmount/Desktop
APS12ESB-050240	120Vac	WM1	5.0V	2.40A	Wallmount
APS12ES-060200-1,3,8	90-264Vac	WM1/WM3/DT8	6.0V	2.00A	Wallmount/Desktop
APS12ESB-060200	120Vac	WM1	6.0V	2.00A	Wallmount
APS12ES-065180-1,3,8	90-264Vac	WM1/WM3/DT8	6.5V	1.80A	Wallmount/Desktop
APS12ESB-065180	120Vac	WM1	6.5V	1.80A	Wallmount
APS12ES-075160-1,3,8	90-264Vac	WM1/WM3/DT8	7.5V	1.60A	Wallmount/Desktop
APS12ESB-075160	120Vac	WM1	7.5V	1.60A	Wallmount
APS12ES-090130-1,3,8	90-264Vac	WM1/WM3/DT8	9.0V	1.30A	Wallmount/Desktop
APS12ESB-090130	120Vac	WM1	9.0V	1.30A	Wallmount
APS12ES-120100-1,3,8	90-264Vac	WM1/WM3/DT8	12.0V	1.00A	Wallmount/Desktop t
APS12ESB-120100	120Vac	WM1	12.0V	1.00A	Wallmount
APS12ES-150080-1,3,8	90-264Vac	WM1/WM3/DT8	15.0V	0.80A	Wallmount/Desktop
APS12ESB-150080	120Vac	WM1	15.0V	0.80A	Wallmount
APS12ES-240050-1,3,8	90-264Vac	WM1/WM3/DT8	24.0V	0.50A	Wallmount/Desktop
APS12ESB-240050	120Vac	WM1	24.0V	0.50A	Wallmount
APS12ES-480025-1,3,8	90-264Vac	WM1/WM3/DT8	48.0V	0.25A	Wallmount/Desktop
APS12ESB-480025	120Vac	WM1	48.0V	0.25A	Wallmount

**MECHANICAL DIMENSIONS: MM [INCHES]**

**WEIGHT: 113g (4.0 Oz.)**

