

# APS

## Advanced Power Solutions

### UNIVERSAL INPUT AC TO DC EXTERNAL WALLMOUNT ADAPTOR SINGLE OUTPUT 20-36 WATTS SWITCHING POWER SUPPLIES APS25ES SERIES



#### FEATURES:

- ACCOMMODATE UNIVERSAL AC INPUT
- DIVERSE WALLMOUNT AC PLUGS
- MEET UNIVERSAL SAFETY STANDARDS
- EMI MEET EN55022 /FCC CLASS B
- CE MARKING COMPLIANCE

#### SPECIFICATION

##### INPUT SPECIFICATION

**Input Voltage:** 90-264Vac typical  
**Input Connector:** Wallmount Format  
 WM1 / WM2 (USA/Japan), WM3 (Euro-Stecker)  
 WM5 (UK) / WM6 (Australia)  
**Input Frequency:** 47-63Hz  
**Inrush Current:** 28A @ 230Vac typical  
**Input Current:** 0.6A @ 115Vac. / 0.3A @ 230Vac  
**Dielectric Withstand:** Meets IEC950  
**EMI:** Meets EN55022/ FCC Class B  
**Hold-up Time:** 8mS @ 115Vac or  
 35mS @ 230Vac typical

##### OUTPUT SPECIFICATION

**Output Voltage:** See Ratings Chart  
**Output Current:** See Ratings Chart  
**Output Wattage:** Typ. 20 to 36 Watts  
**Output Connector & Cord:** Optional  
**Line Regulation:** 0.1% typical  
**Load Regulation:** ±3 to 5% typical  
**Noise & Ripple:** Typ. 1.0% peak to peak  
**OVP:** Built-in Zener diode clamping  
**Adjustability:** Factory set  
**Overload Protection:** Typ. 125 to 150% of max. power  
 Over-range or short circuit, power foldback  
 & self-recovering

##### GENERAL SPECIFICATION

**Efficiency:** 85% typical  
**Switching Frequency:** Approximate 70KHz  
**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 & II  
**Power Density:** 2.67 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  
**Wallmount Format**

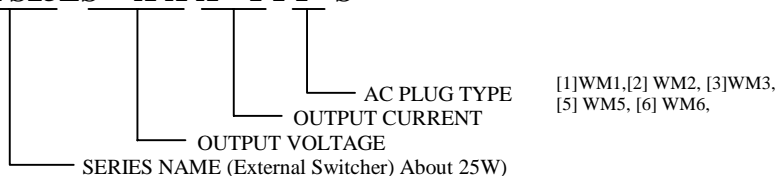
Notes: (1) All measurements are at nominal input, full load, and +25°C unless otherwise specified.

(2) Load regulation is measured at 115Vac or 230Vac in percentage to indicate the change in output voltage as the load 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.



For the details of safety agency approval, please consult the factory.

**MODEL NO. DESCRIPTION: APS25ES - X X X YYY -S****OUTPUT VOLTAGE/ CURRENT RATINGS CHART**

| DEFINED OUTPUT VOLTAGE          | OUTPUT VOLTAGE (Vdc) / CURRENT (A)  |
|---------------------------------|---|
| 3.3 Vdc < Any Voltage > 24.0Vdc | 3.3-5.0V/5.0-4.0A, 5.1-6.0V/3.95-3.5A, 6.1-7.4V/3.45-3.0A, 7.5-10.0V/2.98-2.5A, 10.1-15.0V/2.49-2.0A, 15.1-15.7V/1.98-1.91A, 15.8-16.6V/1.89-1.8A, 16.7-17.6V/1.79-1.7A, 17.7- 18.7V/1.69-1.6A, 18.8-20.0V/1.59-1.5A, 20.1-21.4V/1.49- 1.4A, 21.5-23.0V/1.39-1.3A, 23.1-23.9V/1.29-1.25A. |
| 24.0Vdc < Any Voltage > 36.0Vdc | 24.0-25.7V/1.5-1.4A, 25.8-27.6V/1.39-1.3A, 27.7-30.0V/1.29-1.2A, 30.1-32.7V/1.19-1.1A, 32.8-34.2V/1.09-1.05A, 34.3-34.9V/1.04-1.03A, 35.0-36.0V/1.02-1.0A.  |

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

**SINGLE OUTPUT (Model No. for example.)**

| MODEL NO.        | AC PLUG | OUTPUT VOLTAGE (Vdc) | OUTPUT CURRENT (A) |
|------------------|---------|----------------------|--------------------|
| APS25ES-033500-1 | WM1     | 3.3V                 | 5.00A              |
| APS25ES-050400-2 | WM2     | 5.0V                 | 4.00A              |
| APS25ES-090270-3 | WM3     | 9.0V                 | 2.70A              |
| APS25ES-120240-5 | WM5     | 12.0V                | 2.40A              |
| APS25ES-150200-6 | WM6     | 15.0V                | 2.00A              |
| APS25ES-180166-1 | WM1     | 18.0V                | 1.66A              |
| APS25ES-230130-2 | WM2     | 23.0V                | 1.30A              |
| APS25ES-240150-3 | WM3     | 24.0V                | 1.50A              |
| APS25ES-300120-5 | WM5     | 30.0V                | 1.20A              |
| APS25ES-360100-6 | WM6     | 36.0V                | 1.00A              |

**MECHANICAL DIMENSIONS: MM [INCHES]****WEIGHT: 240g (8.5Oz)**