

APS

Advanced Power Solutions

UNIVERSAL INPUT AC TO DC EXTERNAL WALLMOUNT & DESKTOP ADAPTOR SINGLE OUTPUT 16-18 WATTS SWITCHING POWER SUPPLIES APS18ES SERIES



FEATURES:

- UNIVERSAL INPUT
- DIVERSE AC PLUGS AVAILABLE
- WALLMOUNT OR DESKTOP FORMAT
- MEETS UNIVERSAL SAFETY STANDARD
- EMI MEET EN55022 / FCC CLASS B
- CE MARKING COMPLIANCE

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: 90-264Vac typical
Input Connector:
Wallmount format: WM1,2 (USA/Japan)/ WM3 (Euro-Stecker)/
 WM4 (Schuko-stecker)/ WM5 (UK)/WM 6, 6G(Australia)
Desktop format: IEC320 Inlet Type: DT7-3P or DT8-2P
 Mouse Power Pig-tail type: PT1/2/3/4/5/6/7
Input Frequency: 47-63Hz
Inrush Current: Typical 48A @ 230Vac or
 28A @ 230Vac by adding thermister
Input Current: 0.4A @ 115Vac / 0.17A @ 230Vac
Dielectric Withstand: Meets IEC950
EMI: Meets EN55022 / FCC Class B
Hold-up Time: 10mS @ 115Vac/ 40mS @ 230Vac

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart
Output Current: See Ratings Chart
Output Wattage: 16 to 18 Watts typical
Output Connector: Optional
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. 120-150% of max. power
 Over-range or short circuit, power foldback
 & self-recovering.

GENERAL SPECIFICATION

Efficiency: 75 to 80% typical
Switching Frequency: Fixed 40KHz
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 II
 Class I for WM2,4,5,6G / DT7/PT 2,4,5,7.
Power Density: 2.0 ~ 2.3Watts. / Inch³

Operating Temperature: -5° to +50°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 or Desktop Format

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

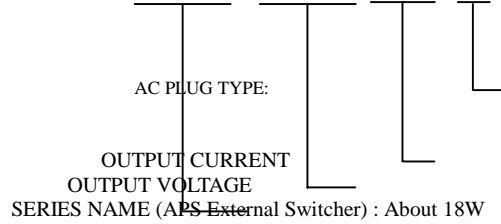
(2) Load regulation is measured at 115Vac or 230Vac in percentage to indicate the change in output voltage as the load is varied from half load to full load (±%).

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



For the details of safety, please consult the factory

MODEL NO. DESCRIPTION: APS18ES - X X X YYY - S



- [1]WM1, [2]WM2, [3]WM3, [4]WM4,
- [5]WM5, [6]WM6, [6G]WM6G
- [7]DT7(IEC320 3-pin or 3L-pin),
- [8]DT8(IEC320 2-pin).
- [A]PT1, [B]PT2, [C]PT3, [D]PT4
- [E]PT5, [F]PT6, [G]PT7,

OUTPUT VOLTAGE / CURRENT RATINGS CHART

DEFINED OUTPUT VOLTAGE(Vdc)	OUTPUT VOLTAGE (Vdc) / CURRENT (A)
3.3 Vdc < Any Voltage > 12.0 Vdc	3.3-5.0V/2.8-3.0A, 5.1-5.4V/2.95-2.8A, 5.5-5.9V/2.76-2.6A, 6.0-6.9V/2.56-2.3A, 7.0-7.9V/2.3-2.0A, 8.0-8.9V/2.0-1.85A, 9.0-10.0V/1.84-1.7A, 10.1-11.9V/1.7-1.52A.
12.0Vdc < Any Voltage > 48.0 Vdc	12.0-15.0V/1.5-1.2A, 15.1-18.0V/1.19-1.0A 18.1-20.0V/0.99-0.90A, 20.1-22.5V/0.89-0.80A 22.6-24.0V/0.79-0.75A, 24.1-48.0V/0.75A-0.40A

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

SINGLE OUTPUT (Model No. for example.)

MODEL NO.	AC PLUG	O/P VOLTAGE (Vdc)	O/P CURRENT (A)	FORMAT
APS18ES-033280-1	WM1	3.3V	2.80A	Wallmount
APS18ES-050300-3	WM3	5.0V	3.00A	Wallmount
APS18ES-070230-5	WM5	7.0V	2.30A	Wallmount
APS18ES-090184-6	WM6	9.0V	1.84A	Wallmount
APS18ES-120150-7	DT7	12.0V	1.50A	Desktop
APS18ES-150120-8	DT8	15.0V	1.20A	Desktop
APS18ES-240075-G	PT7	24.0V	0.75A	Mouse-PT
APS18ES-480040-7	DT7	48.0V	0.40A	Desktop

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: APS18ES-WM 168.0g (5.93z)

