

UNIVERSAL INPUT AC TO DC EXTERNAL DESKTOP ADAPTOR MULTIPLE OUTPUT SWITCHING POWER SUPPLIES 40 WATTS APS40ES SERIES



FEATURES:

- AUTOMATICALLY ACCOMMODATES UNIVERSAL AC SOURCES
- DESKTOP ADAPTOR WITH IEC 320 INPUT RECEPTACLE
- DESIGNED TO MEET UNIVERSAL SAFETY STANDARDS
- EMI/RFI MEET CISPR PUB. 22 CLASS B
- CE MARKING COMPLIANCE

SPECIFICATIONS

INPUT SPECIFICATIONS:

Input Voltage: Typical 90-265VAC
Input Connector: IEC 320 3P-AC receptacle
Input Frequency: 47-63Hz
 (Consult factory for 440Hz operation)
Inrush Current: 15A max. @ 230VAC
Input Current: 1.0A @ 115VAC & 0.33A @ 30VAC
Dielectric Withstand: (1*) Meets IEC950
EMI/RFI: Meets CISPR PUB. 22 class B
Hold-up Time: 30mS typ. @ 115VAC
 120mS typ. @ 230VAC

OUTPUTS SPECIFICATIONS:

Output Voltage: See RATINGS CHARTS
Output Currents: See RATINGS CHARTS
Output Connector: Optional
Line Regulation: $\pm 0.1\%$ typical
Load Regulation: (2*) $\pm 3-5\%$ depending on O/P cord
Noise & Ripple: Typ. 1% peak to peak
OVP: Built-in +5V O/P @ +6.4V $\pm 0.4V$
 Option for other O/P @ 124% typ.
Adjustability: Factory set
Overload Protection: 105% max. power

GENERAL SPECIFICATIONS:

Efficiency: Typ. 75% Switching Frequency: About 37- 100KHz Circuit Topology: Free-running flyback circuit Transient Response: Output voltage returns in less than 3mS following a 50% load change Safety Standard: UL1950/EN60950	Operating Temperature: 0 to 40°C Storage Temperature: -20 to +85°C Temperature Coefficient: 0.04% per °C Cooling: Free air convection Construction: Impact resistant thermo-plastic enclosure with venting slot desktop format
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Remarks: (1*) Dielectric Withstand: If at the cord strain relief end for 1 minute, the results are 3,000VAC-Output/Input, 1,500VAC - Input/GND, 500VAC - Output/GND
 (2*) Load regulation: The exact obtainable voltage regulation depends upon the output cord selected and load currents.
 Upper data are for 6 ft.(2 meters) cord AWG #18/20 wires with PF or PD type connector.



VOLTAGE/CURRENT RATINGS CHART.

SINGLE OUTPUT:

MODEL NO.	MAIN O/P VO1 ★ TYP. VOLT. PEAK		
APS40ES-10	6.0A	5.0V	8.0A
APS40ES-10A	4.0A	6.5V	6.0A
APS40ES-11	2.5A	12V	3.3A
APS40ES-12	2.0A	15V	2.7A
APS40ES-13	1.25A	24V	1.7A

DUAL OUTPUT:

MODEL NO.	MAIN O/P VO1 ★ TYP. VOLT. PEAK			AUX. O/P +VO2†or-VO3• TYP. VOLT. PEAK		
APS40ES-20	7.0A	+5V	8.0A	1.0A	- 5V	1.0A
APS40ES-21	6.0A	+5V	7.0A	1.0A	+12V	1.0A
APS40ES-22	5.0A	+5V	6.0A	1.0A	+15V	1.0A
APS40ES-23	4.0A	+5V	5.0A	1.0A	+24V	1.0A
APS40ES-24	2.5A	+12V	3.0A	1.0A	-12V	1.0A

TRIPLE OUTPUT:

MODEL NO.	MAIN O/P VO1 ★ TYP. VOLT. PEAK			AUX. /P VO2 † TYP. VOLT. PEAK			AUX. /P VO3 • TYP. VOLT. PEAK		
APS40ES-30	4.0A	+5V	5.0A	1.5A	+12V	2.0A	1.0A	-12V	1.0A
APS40ES-30L3	5.0A	+5V	6.0A	1.2A	+12V	2.0A	0.25A	-12V	1.0A
APS40ES-31	4.0A	+5V	5.0A	1.5A	+12V	2.0A	1.0A	-5V	1.0A
APS40ES-32	4.0A	+5V	5.0A	1.0A	+24V	1.0A	1.0A	-12V	1.0A
APS40ES-33	4.0A	+5V	5.0A	1.5A	+15V	2.0A	1.0A	-5V	1.0A

Symbols:" ★" OVP built-in. "†" Stacked on main output. "•"Installed with Post Regulator(PR)
Remark: Peak output, less than 60 Sec., Peak current can't be drawn from all output at the same time.

MECHANICAL DIMENSIONS: MM (INCHES) WEIGHT: 570 g (20.1 Oz.)

