

APS

Advanced Power Solutions

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UNIVERSAL INPUT HARMONIC CORRECTION (PFC) AC TO DC EXTERNAL DESKTOP ADAPTOR SINGLE OUTPUT 95-103 WATTS SWITCHING POWER SUPPLIES APS103EP SERIES



FEATURES:

- ACCOMMODATE UNIVERSAL AC INPUT
- DESKTOP IEC320-3P AC RECEPTACLE
- MEETS IEC 1000-3-2 HARMONIC CORRECTION
- MEET UNIVERSAL SAFETY STANDARDS
- EMI MEET EN 55022/FCC CLASS B
- CE MARKING COMPLIANCE

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: 90 to 264Vac typical
Power Factor Correction (PFC) installed
Input Connector: IEC320-3P AC receptacle
Input Frequency: 47 to 63Hz
Inrush Current: Cold start 29A @ 230Vac
Input Current: 1.1A @ 115Vac &
0.55A @ 230Vac typical
Dielectric Withstand: Meets IEC950
EMI: Meets EN55022 / FCC Class B
Hold-up Time: 23mS typical @ 115Vac & 230Vac
Over Temp. Protection (OTP): Optional
Earth Leakage: 0.70mA @ 230Vac

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart
Output Current: See Ratings Chart
Output Wattage: Typical 95 to 103W
Output Connector & Cord: Optional
Line Regulation: 0.1% typical
Load Regulation: $\pm 1.5 \sim 3.0\%$ typical
Noise & Ripple: Typ. 0.5-1.0% peak to peak
OVP: Built-in, Latched circuit
Adjustability: Factory set, not available
Overload Protection: Typ. 110-130% of max. power
Over-range or short circuit, power foldback
& self-recovering.

GENERAL SPECIFICATION

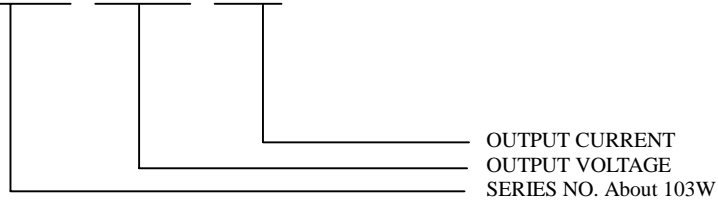
Efficiency: 80% typical
Switching Frequency: Approximate 165KHz
Circuit Topology: Fixed frequency Forward circuit
Transient Response: Output voltage returns in about
0.1mS following a 25% load change
Safety Standard: UL1950/EN60950 Class I Harmonic
Current Emission, EN61000-3-2 compliance
Power Density: 2.5 Watt / Inch³
Operating Temperature: 0° to +40°C
Storage Temperature: -20°C to +85°C
Temperature Coefficient: 0.04% per °C
Cooling: Internal fan installed
Construction: Impact resistant thermo- plastic enclosure
Desktop Format
Power Factor: 0.99 @ 115Vac

Note: (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(\pm).
(3) The typical cord length is about 1 meter (3.3 ft.), AWG#18 cord for various load conditions.



For the details of safety approval, please consult the factory

MODEL NO. DESCRIPTION: APS103EP - X X X Y Y Y



OUTPUT VOLTAGE / CURRENT RATINGS CHART

DEFINED OUTPUT VOLTAGE(Vdc)	OUTPUT VOLTAGE (Vdc) / CURRENT (A)
9.0 Vdc < Any Voltage > 24.0 Vdc	9.0-10.0V/11.0-10.0A, 10.1-11.9V/9.9-8.5A, 12.0-12.5V/8.5-8.0A,
	12.6-13.0V/8.0-7.8A, 13.1-13.9V/7.7-7.3A, 14.0-14.9V/7.2-6.8A,
	15.0-15.9V/6.8-6.3A, 16.0-17.9V/6.3-5.7A, 18.0-20.9V/5.6-4.8A,
	21.0-23.0V/4.8-4.4A, 23.1-24.0V/4.4-4.2A.

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

SINGLE OUTPUT (Model No. for example)

MODEL NO.	O/P VOLTAGE (Vdc)	O/P CURRENT (A)
APS103EP-090110	9.0V	11.0A
APS103EP-120085	12.0V	8.5A
APS103EP-150068	15.0V	6.8A
APS103EP-180056	18.0V	5.6A
APS103EP-240042	24.0V	4.2A

MECHANICAL DIMENSIONS: MM (INCHES) WEIGHT: 777g (27.4 Oz.)

