

UNIVERSAL INPUT HARMONIC CORRECTION SINGLE OUTPUT INTERNAL SWITCHING POWER SUPPLIES 100 WATTS APS103VP-SERIES



FEATURES:

- 5" x 3" x 1" COMPACT SIZE & HIGH POWER DENSITY
- ACCOMMODATES UNIVERSAL AC SOURCES
- MEETS IEC1000-3-2 HARMONIC CORRECTION (PFC)
- MEETS UNIVERSAL SAFETY STANDARDS
- EMI MEETS EN55022 & FCC CLASS B
- CE MARKING COMPLIANCE

SPECIFICATIONS

INPUT SPECIFICATIONS

Input Voltage: Typ. 90-264Vac, Power Factor Correction
Input Connector: V-M connector and GND tag
Input Frequency: 47-63Hz
Inrush Current: 26A @ 230Vac, cold start
Input Current: 1.0A @ 115Vac; 0.5A @ 230Vac
Dielectric Withstand: Meets IEC950
 3,000Vac-Output/Input
 1,500Vac-Input/GND
 500Vac-Output/GND
EMI: Meets EN55022 B / FCC Class B
Hold-up Time: 25ms @ 115Vac/ 25ms @ 230Vac
Turn-ON Delay / Rise Time: 2 Sec. / 5 ms
Earth Leakage: Less than 0.5mA @ 230Vac

OUTPUT SPECIFICATIONS

Output Voltage: See Ratings Chart
Output Current: See Ratings Chart
Output Power: Typ. 100W cont.; varies with o/p voltage
Output Connector: V-M Molex, 0.156" connector for <12A
 M-T Mini Terminal Block for >12 A
Line Regulation: ±0.1% typical
Load Regulation: ±1.0% typical
Noise & Ripple: Typical 1% peak to peak
OVP: Built-in
Adjustability: From -10% of main O/P till OVP point
Overload Protection: Approx. 125% (115-135%) of over-range
 foldback type, self-recovering & protect against
 short circuit.
Remote Sensing: Available

GENERAL SPECIFICATIONS

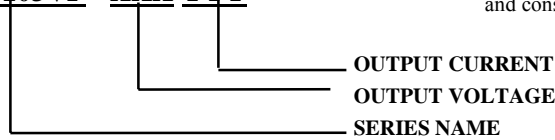
Efficiency: Typical 75 - 84%, varies with Output Voltage
Switching Frequency: PWM 175KHz (PFC: 75KHz)
Circuit Topology: Fixed Frequency Forward Circuit
Transient Response: 0.5mS following 50% load change
Weight: 139g (11.25Oz)
Power Density: 6.73Watts per Cubic Inch
Safety Standard: EN60950950 / UL1950 Class I
Operating Temperature (ambient): 0 to 50°C at full load,
 De-rated linearly 2.5% per °C from 50 - 70°C
Storage Temperature: -40 to +85°C
Humidity: 95% non-condensing
Temperature Coefficient: ±0.04% per °C
Cooling: At least 100 lfm moving air cooling is required to
 to achieve full power rating; +50°C in a confined area
Construction: L-bracket format

Remark: All measurements are at nominal input, full load and +25°C unless otherwise specified.



MODEL NO. DESCRIPTION: APS103VP - XXX YYY

Remark: Please specify the V/A ratings and consult factory for Model No.



OUTPUT VOLTAGE/CURRENT RATINGS CHART.

MAIN OUTPUT VO1 VOLTAGE (Vdc)	OUTPUT VOLTAGE/CURRENT RATINGS
Voltages between 3.3 Vdc and 12.0 Vdc	3.3-5.0Vdc / 20.0-18.0A, 5.1-6.0Vdc / 17.8-15.0A, 6.1-8.0Vdc / 14.8-11.0A, 8.1-10.0Vdc / 10.9-9.5A, 10.1-10.9Vdc/9.4-9.0A, 11.0-12.0Vdc / 9.0-8.5A
Voltages between 12.0 Vdc and 24.0 Vdc	12-24Vdc / 8.5-4.2A, maximum Output Wattage: 103Watt

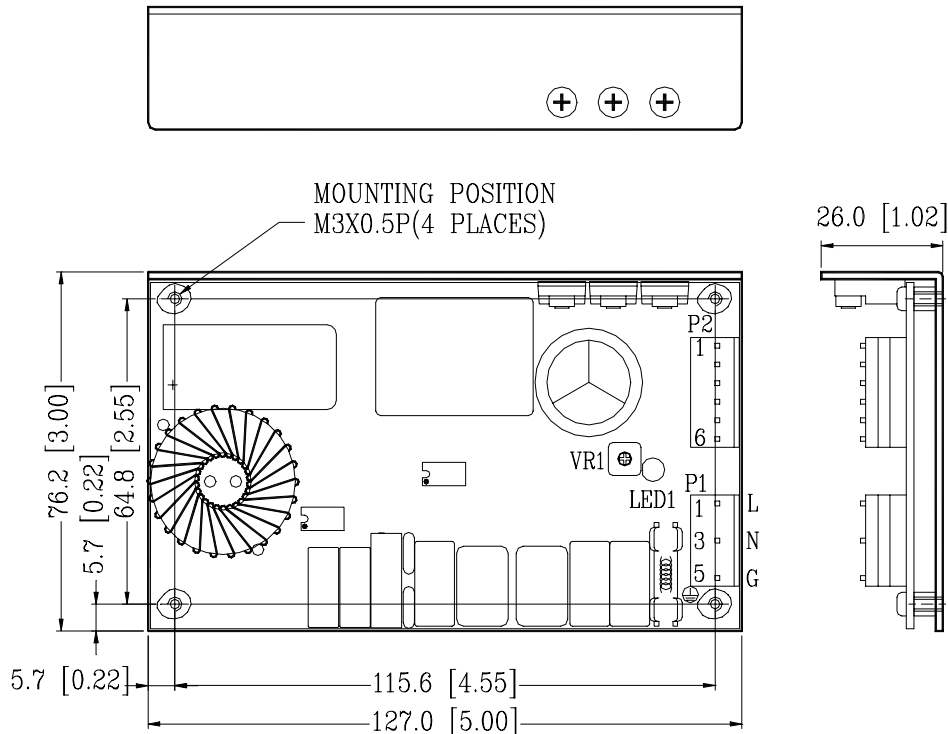
SINGLE OUTPUT (Model Numbers are examples)

MODEL NO.	MAIN O/P • @ #			CONTINUOUS POWER
	Min. Load	Typ. Load	Voltage	
APS103VP-033200	0.8A	20.0A	3.3V	66W
APS103VP-050180	0.6A	18.0A	5.0V	90W
APS103VP-120085	0.5A	8.5A	12.0V	102W
APS103VP-150068	0.5A	6.8A	15.0V	103W
APS103VP-240042	0.3A	4.2A	24.0V	100W

Symbols: "•" OVP built-in; "@" Adjustable; # Remote Sensing
 Remark: Peak output, less than 60sec. with duty cycle < 10%

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: L-B 319g (11.25Oz)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT	AC INPUT			SINGLE OUTPUT		
	AC-LINE	AC-COM	AC-GND	VO1	DC-COM.	Remote Sensing
CNTR & PIN #	P1-1	P1-3	P1-5	P2 - 1, 2 (>12A) P2 - 1, 2, 3 (<12A)	P2 - 3, 4 (>12A) P2 - 4, 5, 6 (<12A)	P3 - 1 (+ Sensing) P3 - 2 (- Sensing)