

APC-A1000 SERIES FRONT END AC-DC POWER MODULE

AC Input: 180V to 264V DC Output: 48V to 57V, 1000W

Advanced
Power
Conversion PLC

Advanced Power Conversion PLC

OUTLINE SPECIFICATION

The APC-A1000 series of front-ends power modules is specifically designed to operate as an integral part of a complete distributed power system, with or without battery backup.

Compact with a very low 1U profile, the APC-A1000 provides a full complement of protection, alarm and control features that have been incorporated into the power unit to provide the versatility needed for a wide variety of applications.

The flexible feature set makes this front-end power module an excellent choice for applications requiring modular AC-to-DC power systems such as distributed power and DC UPS. Also ideal as a power source for the APC range of DC:DC converters, to provide a complete power solution.

APPLICATIONS:

- Telecom / Datacom equipment
- Industrial Applications
- Distributed Power Architectures
- Process Control
- File servers



FEATURES:

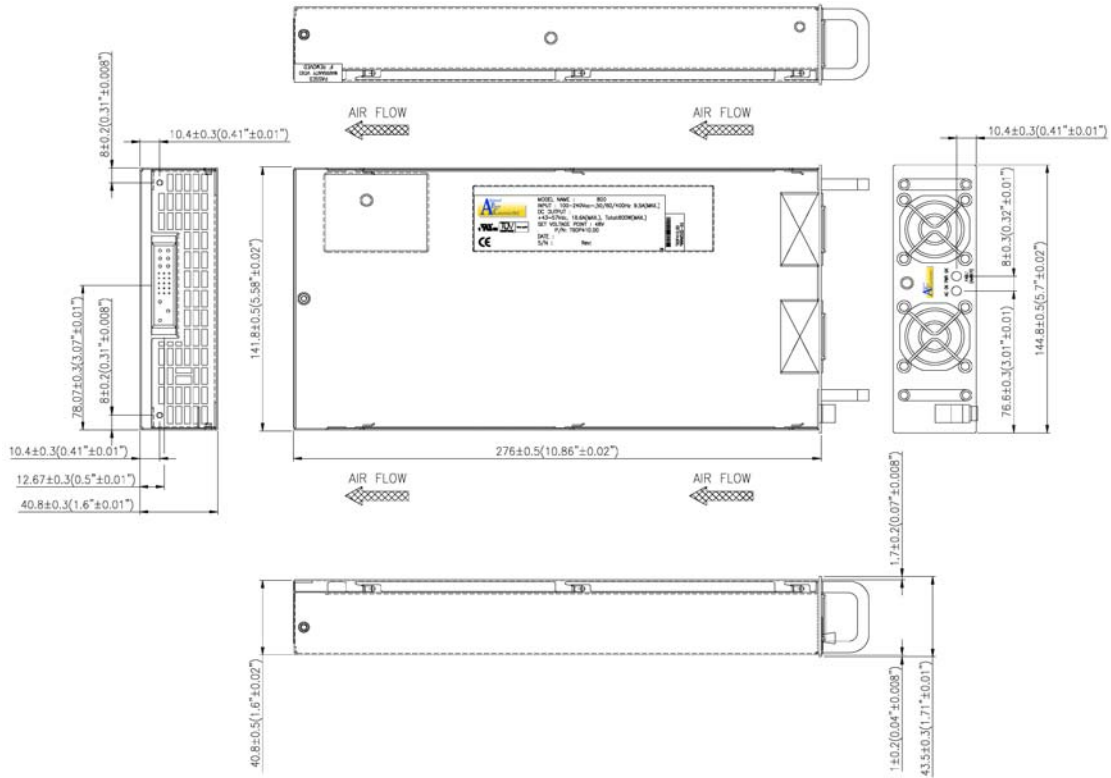
- ❑ High power density, 8.2W / in³
- ❑ Net Weight: < 2.2 KG
- ❑ Low profile : 40.8mm (fit 1U shelf – APC-R3000 series)
- ❑ Universal High Line AC input
- ❑ Efficiency: 84% ~ 88 % typical
- ❑ Power factor correction (meet IEC1000-3-2 requirements)
- ❑ Overvoltage & overcurrent protection
- ❑ Overtemperature warning & protection
- ❑ Redundant parallel operation
- ❑ Remote On/Off and remote sense
- ❑ Active load sharing
- ❑ Hot insertion /removal (Hot Swap)
- ❑ Power fail warning and fault alarm
- ❑ 400Hz input available
- ❑ I²C for voltage, current, temperature report & Power Supply ID.
- ❑ Front panel LED indicators

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Mechanical Outline

Dimensions are in millimetres (inches).



Environmental Characteristics

Parameter	Min	Typ	Max	Unit	Note
Storage Temperature	-40	-	85	°C	
Operating Temperature (note 1)	0	-	70	°C	Derating 2.5% / °C, 50°C to 70°C.
Acoustics	-	60	-	dBa	Sound Pressure level at 1 m.
Humidity (non-condensing)	5	-	95	%	
Altitude	-200	-	13,000	Feet	Derated at 2°C/1000 ft. above 8000 ft.
ESD	-	-	-	-	IEC 1000-4-2 Level 3 stand-alone
Electromagnetic Immunity (error free)	-	-	-	-	IEC 1000-4-2 Level 2 stand-alone
MTBF	4 x 10 ⁵	-	-	hours	@220V Input 80% load, T _A = 30°C
Weight	-	2.2	-	Kg	

Line Harmonics

Active power factor correction circuitry ensures that this power supply meets requirements of IEC 1000-3-2

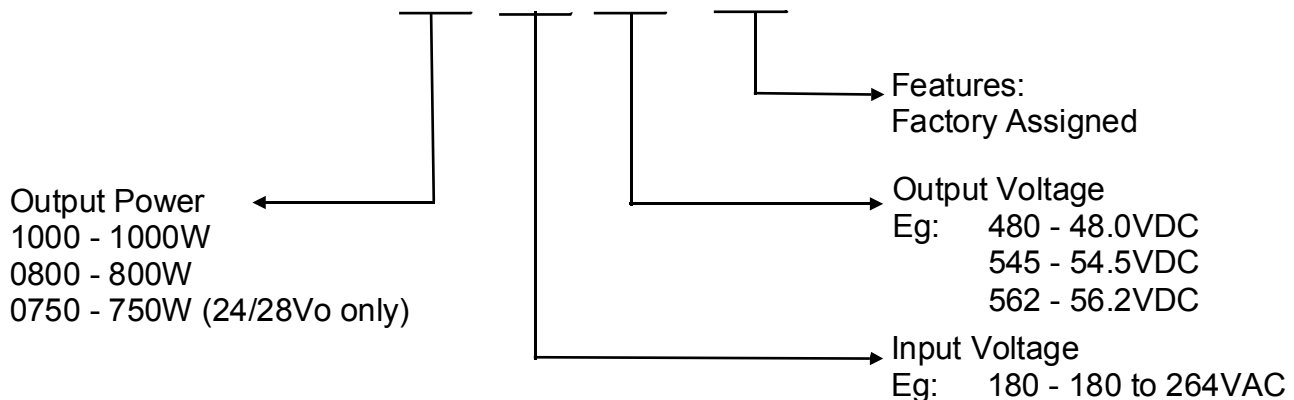
Input Voltage

The product can be used with high line standard global line voltage; consult APC for any particular regional application concerns.

Input / Output Connector

The input / output connector is PCIB24W9M400A1 / Postronic, with 9 power pins and 15 signal pins. 3 out of the 9 power pins are for the AC input.

Selection Guide APC-AXXXX - XXX - XXX - XXX



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