

# APC-A0750 FRONT END AC-DC POWER MODULE

AC Input: 85V to 264V, Single DC Output: 24V to 28V, 750W

Advanced  
Power  
Conversion PLC

## OUTLINE SPECIFICATION

The APC-A750 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.

A full complement of protection, alarm and control features has been incorporated into the power unit to provide the versatility of applications.

When up to 3 x APC-A0750 are used with the 1U high APC-2250 19" rack, a total 2,250W (or 1,500W of N+1) of 24VDC or 28VDC output can provide a low profile, flexible and scalable solution.

The versatile 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.

### APPLICATIONS:

- Advanced workstations
- Telecom / Datacom equipment
- Midrange computers
- Mainframes
- File servers
- LAN/WAN applications
- Mass storage



CE

### FEATURES:

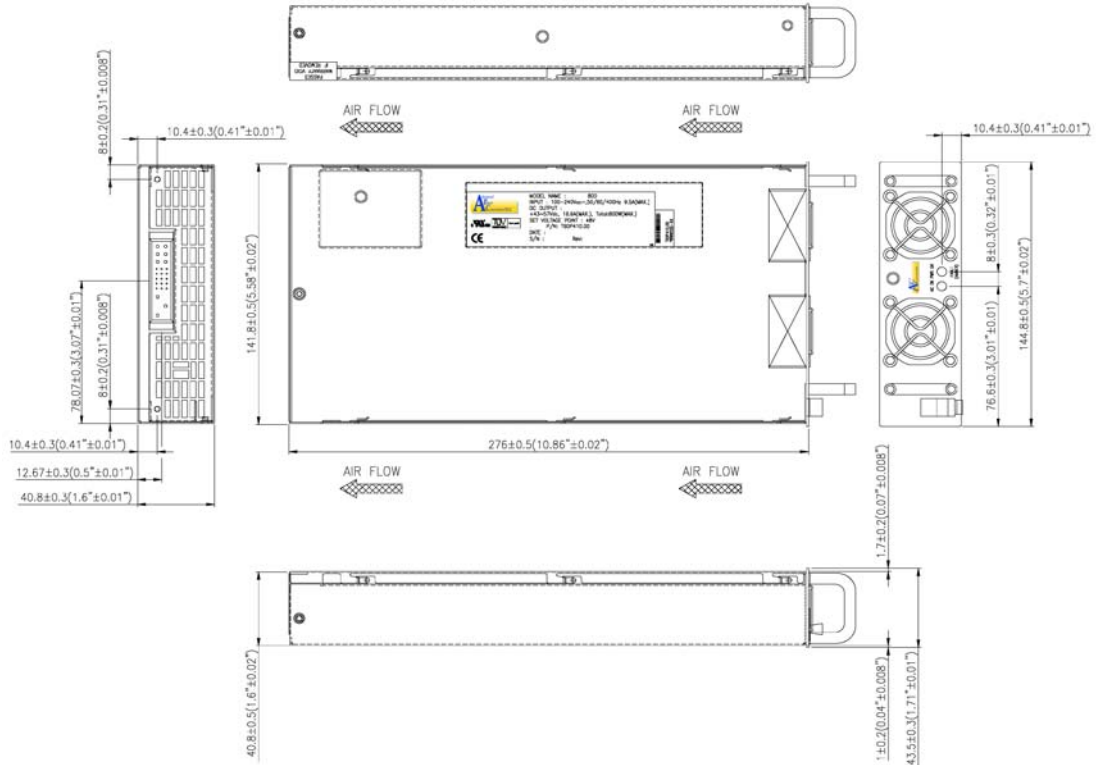
- ❑ High power density, 7.7W / in<sup>3</sup>
- ❑ Net Weight:< 2.2 KG
- ❑ Low profile : 40.8mm (fit 1U 19" shelf – APC-R2250 series)
- ❑ Efficiency: 77% ~ 86 % typical
- ❑ Power factor correction (meet IEC1000-3-2 requirements)
- ❑ Overvoltage & overcurrent protection
- ❑ Overtemperature warning & protection
- ❑ Redundant parallel operation - upto 12 units.
- ❑ Remote On/Off and Remote sense
- ❑ Active load sharing
- ❑ Hot insertion /removal (Hot Swap)
- ❑ Power fail warning and fault alarm
- ❑ Low start-up temperature: - 30°C
- ❑ I<sup>2</sup>C for voltage, current, temperature report & Power Supply ID.
- ❑ Front panel LED indicators
- 400Hz input available (with wattage derating)
- ❑ Meet UL60950, EN60950 and CE mark requirements.

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## Mechanical Outline



## Environmental Characteristics

Parameter	Min	Typ	Max	Unit	Note
Storage Temperature	-40	-	85	°C	
Operating Temperature (note 1)	0	-	60	°C	Derating (TBD)
Acoustics	-	47	52	dB(A)	ISO 7779 SPL
Humidity (non-condensing)	5	-	95	%	
Altitude	-200	-	13,000	Feet	Derated at 2°C/1000 ft. above 8000 ft.
ESD	-	-	-	-	IEC1000-4-2 Level 3 stand-alone
Isolation Voltage	3,000	VAC			Primary to Secondary
	1,500	VAC			Primary to chassis GND
	1,500	VAC			Secondary to chassis GND
MTBF	4 x 10 <sup>5</sup>	-	-	hours	@110V Input 80% load, T <sub>A</sub> = 30°C
Vibration					Meet IEC68-2-6
Shock					Meet IEC68-2-36
Weight	-	2.2	-	Kg	

### Line Harmonics

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

### Power Module Interfaces

#### Input Voltage

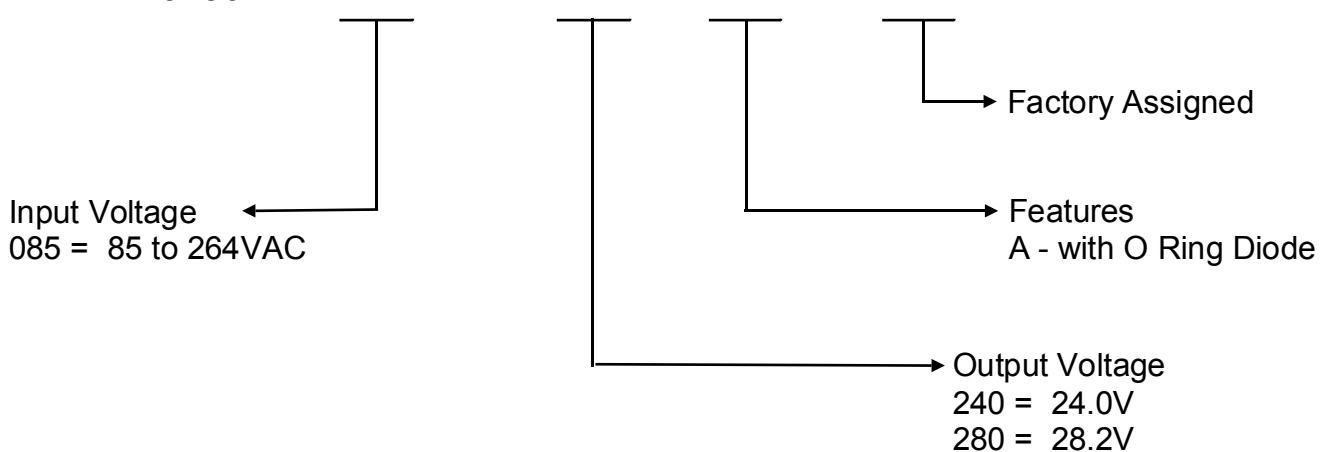
The product can be used with any standard global line voltage; consult APC for any particular regional application concerns.

#### Input / Output Connector

The input / output connector is PCB24W9M400A1 / Postronic, with 9 power pins and 15 signal pins. 3 out of the 9 power pins are for the AC input.

## Selection Guide

### APC-A0750



Information & specifications contained in this data sheet are believed to be correct at the time of publication. However, APC accept no responsibility for consequences arising from printing errors or inaccuracies. Specifications are subject to change without notice

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