

# APC-A800 FRONT END AC-DC POWER MODULE

Universal AC Input: 85V to 264V, Single DC Output: 48V to 57V, 800W

Advanced  
Power  
Conversion PLC

## Outline Product Specification

The APC-A800 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 and with a low 1U profile, the APC-A0800 has a full complement of protection, alarm and control features incorporated into the power unit to provide the versatility of 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.

### APPLICATIONS:

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



### FEATURES

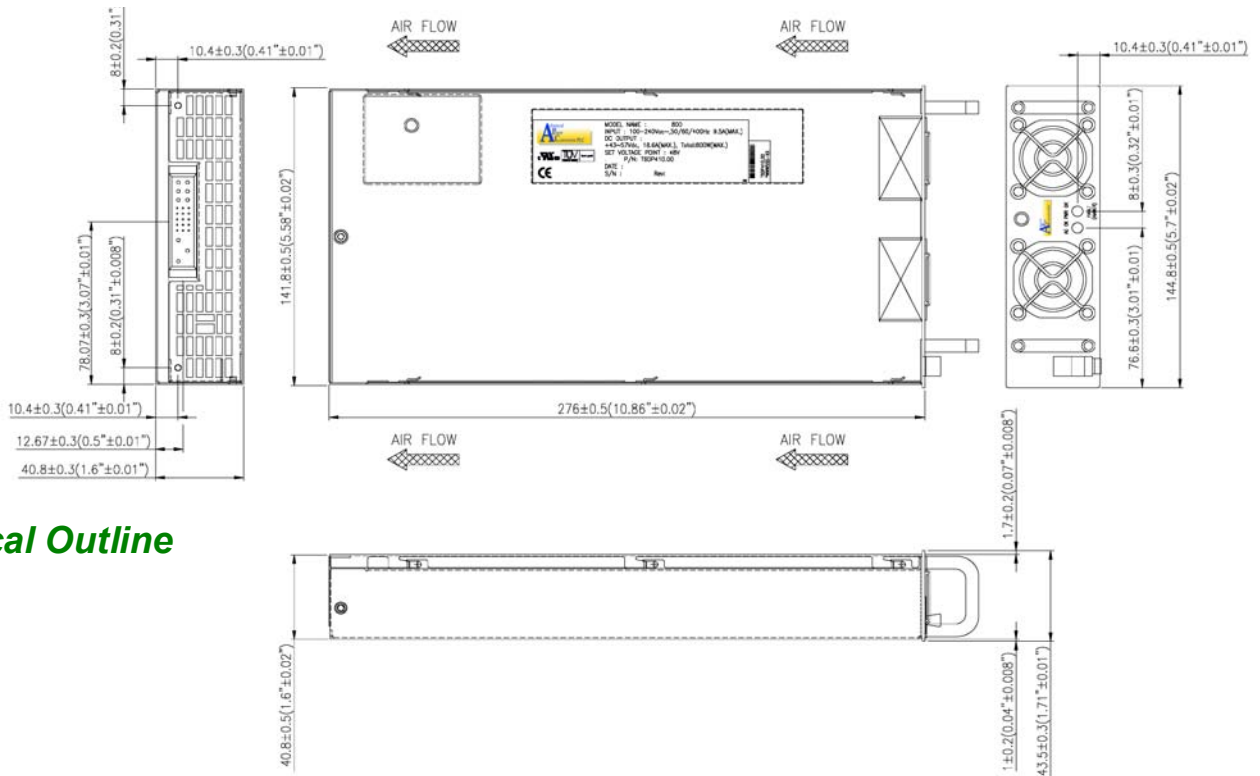
- ❑ High power density, 8.2W / in<sup>3</sup>
- ❑ Net Weight: 2.2 KG typ.
- ❑ Low profile : 40.8mm (fit 1U shelf – APC-R2400 series)
- ❑ Universal AC input
- ❑ Efficiency: 84% ~ 88 % typical
- ❑ Power factor correction (meet IEC1000-3-2 requirements)
- ❑ Overvoltage & overcurrent protection
- ❑ Over-temperature warning & protection
- ❑ Redundant parallel operation up to 12 units
- ❑ Remote On/Off and remote sense
- ❑ Active load sharing
- ❑ Hot insertion /removal (Hot Swap)
- ❑ Power fail warning and fault alarm
- ❑ 400Hz input available
- ❑ I<sup>2</sup>C for voltage, current, temperature report & Power Supply ID.
- ❑ Front panel LED indicator
- ❑ Low Start-Up Temp: -30°C

ADVANCED POWER CONVERSION PLC



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## Mechanical Outline

## Output Connector

1	V+	3	V+	5	V+	7	On/Off	10	RS-	13	CS	16	OTP	19	DC Fail	23	Line		
2	V-	4	V-	6	V-	8	N.C.	11	SDA	14	Signal RTN	17	A2	20	A1	22	FG	24	Neutral
						9	RS+	12	SCL	15	A3	18	A0	21	INT. BUS				

PIN DEFINITIONS					
PIN	FUNCTION	PIN	FUNCTION	PIN	FUNCTION
1	Positive Output	9	Remote Sense +	17	1°C Address Setting
2	Negative Output	10	Remote Sense -	18	1°C Address Setting
3	Positive Output	11	1°C serial Data Bus	19	DC Fail
4	Negative Output	12	1°C clock	20	1°C Address Setting
5	Positive Output	13	Current Sharing	21	Intermediate DC Bus
6	Negative Output	14	Signal RTN for DC fail, OTP	22	Frame GND
7	Remote ON/OFF	15	1°C Address Setting	23	AC Input - Line
8	No Connection	16	OTP & Fan Fail	24	AC Input - Neutral

## Environmental Characteristics

Parameter	Min	Typ	Max	Unit	Note
Storage Temperature	-40	-	85	°C	
Operating Temperature (note 1)	0	-	60	°C	Derating 5% / °C, 50°C to 60°C. (see curve below)
Acoustics	-	47	52	dBA	ISO 7779 SPL
Humidity (non-condensing)	5	-	95	%	
Altitude	-200	-	13,000	Feet	Derated at 2°C/1000 ft. above 8000 ft.
ESD	-	-	-	-	meet IEC1000-4-2 Level 3 stand-alone
Electromagnetic Immunity (error free)	-	-	-	-	meet IEC1000-4-2 Level 2 stand-alone
Isolation	3,000VAC	-	-	-	Primary to Secondary
	1,500VAC	-	-	-	Primary to chassis GND
	1,500VAC	-	-	-	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	

## Selection Guide

APC-XXXX – XXX – XXX –

Output Power  
A0750 - 750W (24V-28Vdc output)  
A0800 - 800W  
A1000 - 1000W (180V-264Vac input)

Features  
A - with O Ring Diode

Output Voltage  
480 - 48.0Vdc  
545 - 54.5Vdc  
562 - 56.2Vdc

Input Voltage  
085 - 85Vac to 264Vac  
180 - 180Vac to 264Vac

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