

ACE-4840APM

400 W PS/2 Medical Type ATX Power Supply

Medical



PFC



New Version 20+4 PIN POWER SUPPLY

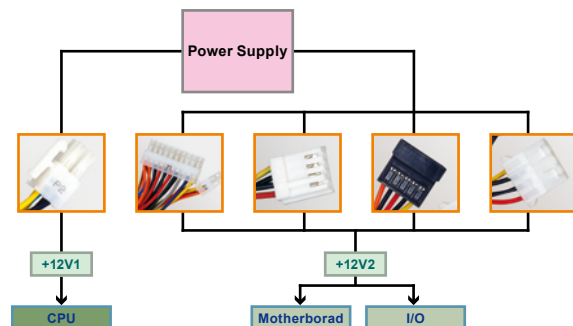
Specifications

Input Voltage	90 ~ 265 VAC Full Range			
Input Frequency	47 ~ 63 Hz			
Input Current	8 A (RMS) for 115 VAC			
	4 A (RMS) for 230 VAC			
Inrush Current	60 A MAX. for 115 VAC			
	100A MAX. for 230 VAC			
Output Voltage	Voltage	Min. load	Max. load	Ripple & Noise
	+3.3 V	0.5 A min	30 A	50 mV
	+5 V	0.3 A min	30 A	50 mV
	+12 V1	1 A min	17 A	120 mV
	+12 V2	1 A min	17 A	120 mV
	-5 V		0.3 A	100 mV
	-12 V		0.8 A	120 mV
	+5 V sb		2 A	50 mV
	+3.3 V & +5 V total output not exceed 180 W			
	+3.3 V & +5 V & +12 V total output not exceed 380 W			
Overvoltage Protection	+5 V	5.7 V ~ 6.5 V		
	+3.3 V	3.7 V ~ 4.5 V		
	+12 V	13.3 V ~ 15.6 V		
Short Circuit Protection	+3.3 V, +5 V, +12 V short circuit all the output			
Hold Up Time	20 ms min.			
MTBF	100,000 hours			
Operating Temperature	0 °C ~ 50 °C			
Storage Temperature	-20 °C ~ 80 °C			
Efficiency	68%			
Dimensions	140 mm x 150 mm x 86 mm			
Outline Connector	20+4PIN ATX x1, 4PIN 12V CPU x1, HDD/CDROM x5, FDD x2, SATA x2, Extra +5V(P10) x1			

Features

1. Internal 8 cm fan
2. Meets medical safety standards
3. Line input fuse protection
4. Output overvoltage protection
5. Short circuit protection on all outputs
6. Total +12 V output up to 34 A

Power Connector +12V



Dual 12V Separate Lines:

As processors become faster and more highly integrated, more current is required. To reduce power distribution loss, board manufacturers are moving from 5V to 12V power distribution. System components that use 12V are continuing to increase in power.

Version 2.0 of Intel's ATX12V Power Supply Design Guide began recommending dual 12V lines for PSUs that can deliver more than 18A at 12V. Why? To abide by safety requirements of UL and EM 60950, which stipulates not more than 240VA on any wires or exposed traces. Intel's PSU Guide calls for a current limiter that keeps current to under 20A on each of the 12V rails: 12V x 20A = 240VA.

What is the safety reason for this 240VA maximum? It's the maximum recommended for an electronic device that a consumer will have reasonable likelihood of access.

The +12V1 (First +12V rail) supplies the 24-pin ATX main power connector & 4-pin Peripheral Power Connector, which feeds for the Mother Board & IO devices.

The +12V2 (2nd +12V rail) supplies the AUX12V 4-pin plug, which feeds only the CPU.

PICMG1.0 Form Factor Backplane



20+4 pin ATX power connector

PICMG1.3 Form Factor Backplane PE-10S/6S



Ordering Information

Part No.	Description
ACE-4840APM-RS	400 W AC-DC PS/2 ATX Power Supply, meet Medical standard, with PFC

1

Industrial Computing Solutions

2

Embedded Computing Solutions

3

Industrial Data Collector and Controller

4

Video Capture Solutions

5

I/O Communication Solutions

6

Panel Solutions

7

ORing Network Communication

8

Power Supply/Peripherals