

RAM Technologies

PFC230PC 230 WATT MEDICAL GRADE POWER SUPPLY



The PFC230PC is a medical grade version of the AT style PC power supply utilizing the latest state of the art power conversion technology. The PFC230PC is specifically design to power new and legacy medical applications.

MADE IN THE USA

Specifications

Input

Input Voltage Range: 100 to 250 VAC +/-10%
Supply overvoltage: Cat Two <300V
Input current: 3.75 A MAX
Frequency: 50/60 HZ
Inrush Current: 35A Cold @ 264 VAC
Efficiency: 75% to 80% TYP.
PFC Correction: Active > .95
Leakage Current: < 250uA @ 264 VAC 60HZ
Input Fuses: 2X 6.3A 250V Line & Neutral

Output

Max output power: 230 Watts continuous
Hold-up Time: >40ms @ full load
Overvoltage Protection: +15% of set voltage
Thermal Protection: Auto Recovery/ cycle pwr. on
Minimum Loading: None
Cross regulation: <0.5%
Line Regulation: <0.05%
Load Regulation: <1% +/- cable factor
AC turn on time: < 2 sec

Output Voltage	+12V	-12	+5V	-5V
Output current max.	19A	1.2A	22A	0.5A
Ripple mV P-P	100	50	50	50

1. Max output from +5V is 110 Watts, multiply total load by 1.2 and subtract from 230 Watts.
2. Total output from all outputs shall not exceed 230 Watts.
3. Output derates from 100VAC to 85VAC 3.5W/Volt
4. Initial voltage tolerance +/-3%

Environmental

Operational Temperature: 0 to 50°C
Storage Temperature: -40 to 80°C
Operational Humidity: 0 to 95%NC
Storage Humidity: 0 to 95%NC
Operational Altitude: -500 to 9840 FT
Storage Altitude: -500 to 40.000 FT
Pollution Degree Class: Two

Reliability

MTBF (demonstrated): > 500,000 hours
Expected Life: >8 years when use as specified

EMC Compliance

EN61000-4-2 ESD level3
EN61000-4-3 RF susceptibility 3v/m
EN61000-4-4 EFT level3
EN61000-4-5 Surge Level3
EN61000-3-2 Harmonics
EN61000-3-3 Flicker
EN61000-4-11 Voltage Dips, Short Interruptions
EN55011 Conducted and radiated emissions

STANDARDS Compliance

IEC60601-1 2nd & 3rd edition
RoHS compliant UL file E191947 ISO9001:2008
Lead free ROHS and REACH compliant

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Safety Approved to the following standards

ANSI/AAMI ES 60601-1:2005 ME-Part 1 and CSA C22.2

No. 60601-1:08(ME-Part 1: General Requirements for Basic Safety and Essential Performance)

IEC 60601-1:2005 (ME Part 1: General Requirements for Basic Safety and Essential Performance – Edition 3)



For Continued protection equipment must be grounded at all times in accordance with the requirements of class 1 devices.



RAM TECHNOLOGIES LLC declares that the PC and PCX power supplies are in conformity with the provisions of the low voltage directive.

See website [DOWNLOADS](#) for enclosure CAD files

Symbols Used



Attention, consult accompanying documents



Protective earth ground



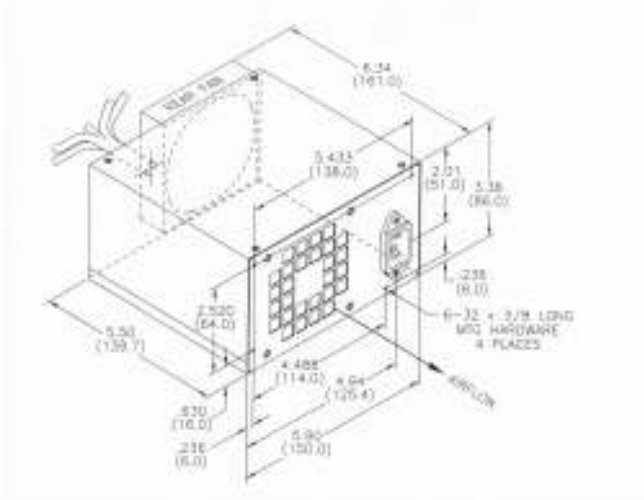
Caution

Power Good Signal

The Power Good Signal asserts itself high 200ms after all outputs have reached their operational values. Power Good Signal will go low when input stored energy can no longer support the outputs.

Intended Use: The PFC230PC is intended to power imbedded AT style motherboards in mission critical medical applications.

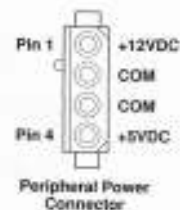
Mechanical Specifications



WE OFFER A WIDE VARIETY OF OUTPUT CABLES PLEASE CONTACT FACTORY FOR DETAILS

Model PFC230PC does not have a rear fan.

The model PFC230PC comes with the two 6 pin power connector
For complete details please contact factory.



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