

RAM Technologies

PFC275-48 275 WATT MEDICAL POWER SUPPLY



The PFC275-48 is a 48 VDC 275 watt medical grade power supply in an ATX style enclosure. The power supply is specifically designed to deliver power through a distribution cable of up to 100 feet. The remote sense lines insure tight point of load regulation with voltage drop up to 5 volts. The PFC275-48 is cooled by RAM's proprietary Dual Smart Fan technology for ultra low noise operation.

Specifications

Input

Input Voltage Range: 100 to 264 VAC
Input current: 4.5 A MAX
Frequency: 50/60 HZ
Inrush Current: 35A Cold
Efficiency: 75% to 80% TYP.
PFC Correction: Active > .95
Leakage Current: < 90uA +/-10% @ 120 VAC
Input Fuses: 2X 6.3A 250V Line & Neutral

Output

Output voltage: 48VDC +/- 3%
Hold-up Time: >40ms @ full load
Overvoltage Protection: +15% of set voltage
Overload Protection: Manual reset
Minimum Loading: None
Peak output current: 7A 50ms
Load Regulation: +/-3%
Line Regulation: < 1%
Turn on time: < 2 sec
Auxiliary output: 12VDC @ 0.1A
Remote sense differential: +/- 5.5 VDC

Note: Output on/off is accomplished by grounding of power on signal. Power on signal is internally pulled up to +5 volts thru a 200k resistor and is compatible with the ATX power on signal input.

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 10,000 FT
Storage Altitude: -500 to 40,000 FT

EMC Compliance:

EMI: self contained EMI filtering for compliance to the following standards; (All measurements were made with unit mounted in chassis.)
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, class B


Note: In order to meet class B two ferrites (28A2029-0A0 & 28A0807-0A2) must be added to the output cable.

A QSB-80-01 EMI fan filter must be added to the internal fan. Refer to output cable drawing for placement of ferrite clamps.

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Safety

Certified to UL2601-1, (File #E191947) 1994 and the standard for medical electrical equipment, part 1: general requirements for safety, Can/CSA C22.2 No. 125-M1984 and Can/ CSA C22.2 no. 601-1-M90 and IEC 601-1. CB report

 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.

Symbols Used

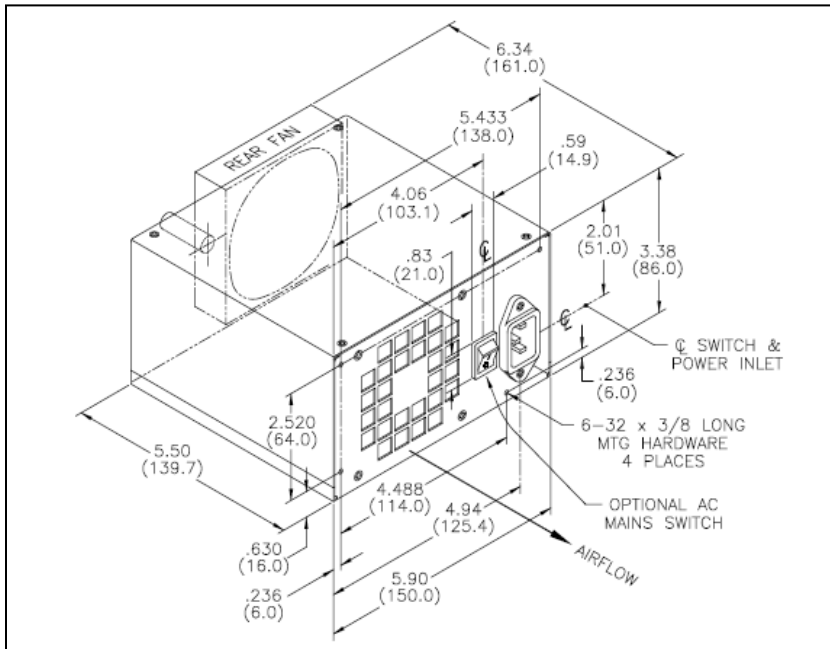


Attention, consult accompanying documents



Protective earth ground

Mechanical Specifications



OUTPUT CONNECTOR:
SWITCHCRAFT EN3P6F

PIN	FUNCTION
1	48VDC RETURN (-)
2	48VDC SUPPLY (+)
3	SENSE (+)
4	48VDC SUPPLY (+)
5	48VDC RETURN (-)
6	SENSE (-)