Intronics Power Inc.
1400 PROVINDENCE HIGHWAY • BUILDING 2 SUITE 2400
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AC 200 Series New Product

200 Watt Single Output U Frame
AC-DC Modules with PFC

FEATURES

- 1.5” Low Profile, 4”X6” Footprint
- Universal Input : 90 ~ 264Vac
- Active PFC Meets EN61000-3-2
- EMI Meets CISPR/FCC Class B
- High Efficiency at 80% Typical
- Current Share
- Remote Voltage Sense
- AC OK Signal (Logic High)
- DC OK Signal (Logic High)
- PS ON/OFF Remote Control
  (Inhibit PSU by adding Logic High)

NOTE

1: Optional function can be added when ordering:
Top Cover with Fan (when forced air is needed)
2: Add a 0.1uF ceramic capacitor and a 47uF E.L. capacitor to output for Ripple & Noise measuring @20MHz BW.
3: Voltage accuracy is set at 60% rated load and 25℃ Ta.
4: Line regulation is measured from High Line to Low Line with rated load.
5: Load regulation is measured at 60%±40% rated load.
6: Dimensions tolerance : +/- 1mm.
7: Connectors:
CN1(AC Input) : Molex 5273-05A or equivalent
CN2(DC Output) : Molex 38700-7504 or equivalent
CN6(Signals) : Molex 70247-10 or equivalent
CN3,CN4,CN5(FAN) : Molex 5045-02A or equivalent

SPECIFICATIONS

■ Input Characteristics	
AC Input Voltage	90 ~ 264Vac
Frequency	47 to 63Hz
Inrush Current	60A Max.
EMI	CISPR/FCC Class B
Isolation	Input to output = 4,242Vdc
Leakage Current	3.5mA max.
■ Output Characteristics	
Total Rated Output Power	200W (with 30CFM air flow or optional fan)
Current Share	Single wire current sharing
Remote Voltage Sense	Compensates for wire voltage drop
Hold-up Time	16mS typ.
Over Voltage Protection	Recycle AC input to restart
Over Temperature Protection	Auto Recovery
Short Circuit Protection	Auto Recovery
■ Environmental Characteristics	
Operating Temperature	0 ~ 70 degrees C 50~70 C with 2.5%/ degrees C derating PSU will be in thermal protection for exceeding the rated power output or the operating temperature
Storage Temperature	-20 ~ 85 C
■ Mechanical Outline	
Standard U Frame	150mmx100mmx38.1mm (5.91”*3.94”*1.5”)
With Optional Fan	150mmx101.6mmx58.5mm (5.91”*4”*2.3”)

Model	Output Voltage	Output Current (A)		Ripple & Noise	Voltage Accuracy	Line Reg.	Load Reg.
		Rated	Min.				
AC200-033	+3.3V	40.0	0	1%	±1%	±1%	±1%
AC200-050	+5.0V	40.0	0	1%	±1%	±1%	±1%
AC200-120	+12V	16.7	0	1%	±1%	±1%	±1%
AC200-150	+15V	13.4	0	1%	±1%	±1%	±1%
AC200-180	+18V	11.2	0	1%	±1%	±1%	±1%
AC200-240	+24V	8.4	0	1%	±1%	±1%	±1%
AC200-280	+28V	7.2	0	1%	±1%	±1%	±1%
AC200-300	+30V	6.7	0	1%	±1%	±1%	±1%
AC200-360	+36V	5.6	0	1%	±1%	±1%	±1%
AC200-480	+48V	4.2	0	1%	±1%	±1%	±1%

Typical @25℃, 230Vac and 60% rated load, unless otherwise specified.

DRAWINGS: (Preliminary)

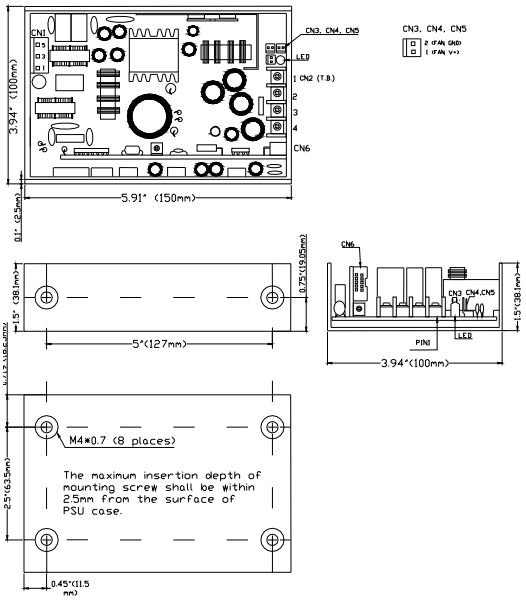


Fig.1. Mechanical Outline of AC200
Unit: inch (mm)

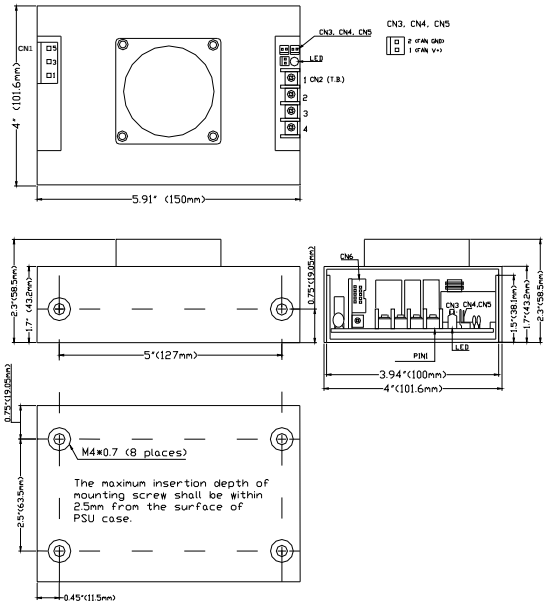


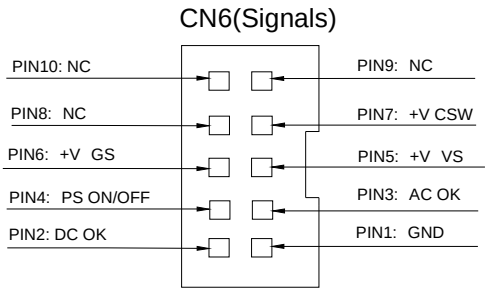
Fig.2. Mechanical Outline of AC200-F (With Optiona1 Fan)
Unit: inch (mm)

PIN CONNECTION:

CN1 (AC Input)	
PIN NO.	ASSIGNMENT
1	Earth Ground
2	NC
3	Neutral
4	NC
5	Line

CN2 (DC Output, T.B.)	
PIN NO.	ASSIGNMENT
1	+V
2	+V
3	PWR GND
4	PWR GND

CN3,CN4,CN5 (FAN Output)	
PIN NO.	ASSIGNMENT
1	+12V(FAN)
2	GND(FAN)



Note: VS means Remote Sense "+"

GS means Remote Sense "Return"

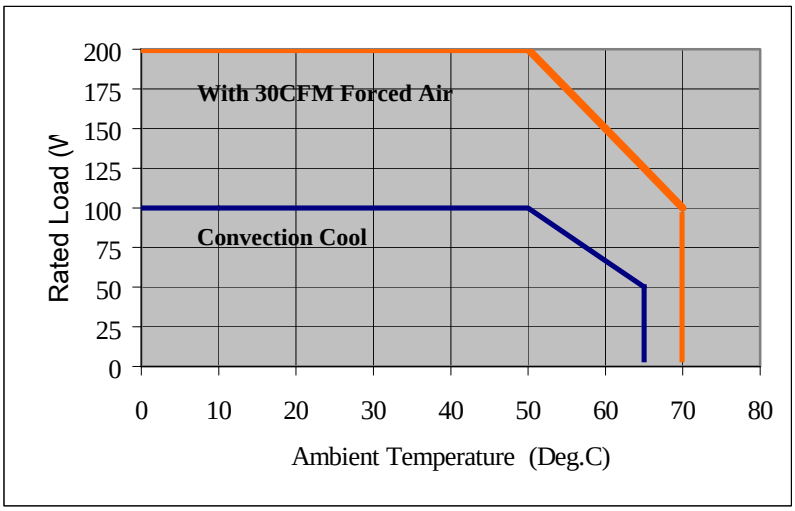


Fig.3. Output Derating Curve