# CFM200S SERIES

## 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
* Meets CISPR/FCC Class B
* High Efficiency at 80% Typical
* Remote Voltage Sense
* PS ON/OFF Remote Control
  (Inhibit PSU by adding Logic High)
* Active Current Sharing
* AC OK Signal
* DC OK Signal

## Ordering information

| CFM200S-XXX | - | XXX |
|---|---|---|
| Model No. | | Cover & Fan<br>001:Without Top Cover & Fan<br>002:With Top Cover & Fan |

| MODEL | OUTPUT VOLTAGE | MAX. LOAD | MIN. LOAD | RIPPLE & NOISE | VOLTAGE ACCURACY | LINE REGULATION | LOAD REGULATION |
|---|---|---|---|---|---|---|---|
| CFM200S-033 | +3.3V | 40.0A | 0 | 1% | ±1% | ±1% | ±1% |
| CFM200S-050 | +5.0V | 40.0A | 0 | 1% | ±1% | ±1% | ±1% |
| CFM200S-090 | +9.0V | 22.2A | 0 | 1% | ±1% | ±1% | ±1% |
| CFM200S-120 | +12V | 16.7A | 0 | 1% | ±1% | ±1% | ±1% |
| CFM200S-150 | +15V | 13.4A | 0 | 1% | ±1% | ±1% | ±1% |
| CFM200S-180 | +18V | 11.2A | 0 | 1% | ±1% | ±1% | ±1% |
| CFM200S-240 | +24V | 8.4A | 0 | 1% | ±1% | ±1% | ±1% |
| CFM200S-280 | +28V | 7.2A | 0 | 1% | ±1% | ±1% | ±1% |
| CFM200S-300 | +30V | 6.7A | 0 | 1% | ±1% | ±1% | ±1% |
| CFM200S-360 | +36V | 5.6A | 0 | 1% | ±1% | ±1% | ±1% |
| CFM200S-480 | +48V | 4.2A | 0 | 1% | ±1% | ±1% | ±1% |

## Specifications

### INPUT SPECIFICATIONS:

AC Input Voltage ..... 90~264Vac
Frequency ..... 47 to 63Hz
Inrush Current .....120A max. @ 240VAC
Conducted EMI ..... CISPR/FCC Class B
Isolation ..... Input to output = 4242VDC
Leakage Current ..... 3.5mA max.

### OUTPUT SPECIFICATIONS:

Total Rated Output Power .....200W(with 30CFM air flow or optional fan)
Current Share (Parallel Operation) .....Single wire current sharing(CSW)
Remote Voltage Sense ..... Compensates for wire voltage drop
Hold-up Time ..... 16ms typ.
Short Circuit Protection ..... Continuous
Over Voltage Protection .....YES

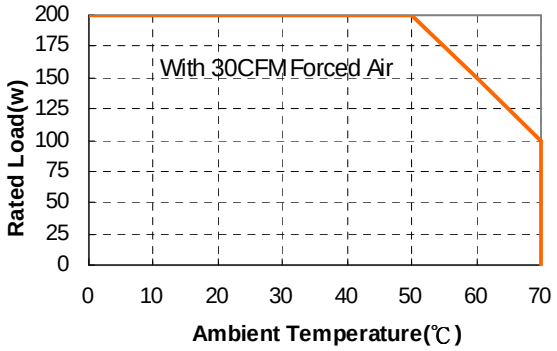
### ENVIRONMENTAL CHARACTERISTICS:

Operating Temperature ..... 0 ~ 70℃
50~70℃ with 2.5%/℃ Derating
PSU will be in thermal protection for exceeding the rated power output or the operating temperature
Storage Temperature ..... -20~85℃

### MECHANICAL CHARACTERISTICS:

Standard U Frame ..... 5.91x3.94x1.50 Inches(150.0x100.0x38.1mm)
With Optional Fan ..... 5.91x4.00x2.30 Inches(150.0x101.6x58.5mm)
Weight ..... 700g (800g with top Cover and Fan)

## CFM200S Series Derating Curve



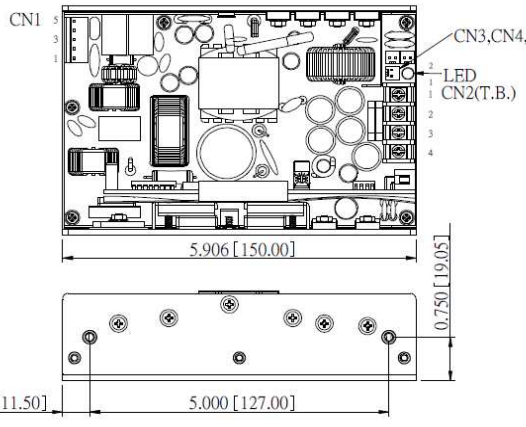

### NOTE:

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 : +/- 1.5mm.
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

## Mechanical Specification

CN1
PIN CONNECTION

| PIN | Function |
|---|---|
| 1 | E |
| 2 | - |
| 3 | N |
| 4 | - |
| 5 | L |

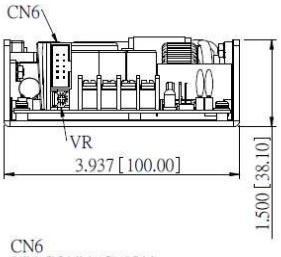



CN2
PIN CONNECTION

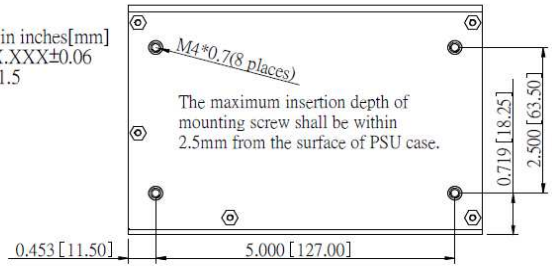
| PIN | Function |
|---|---|
| 1 | Vout(+) |
| 2 | Vout(+) |
| 3 | Vout(-) |
| 4 | Vout(-) |

CN3,CN4,CN5
PIN CONNECTION

| PIN | Function |
|---|---|
| 1 | FAN V+ |
| 2 | FAN GND |

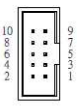



All Dimensions are in inches[mm]
Tolerances:Inches:X.XXX±0.06
Millimeters:X.XX±1.5



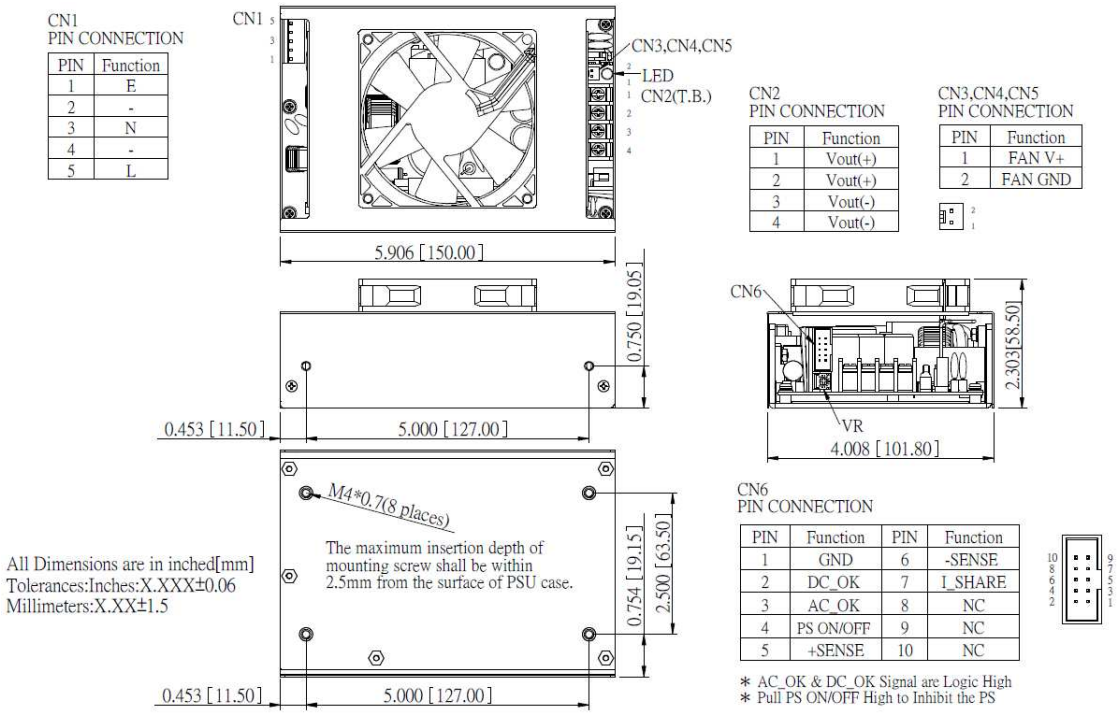

CN6
PIN CONNECTION

| PIN | Function | PIN | Function |
|---|---|---|---|
| 1 | GND | 6 | -SENSE |
| 2 | DC_OK | 7 | I_SHARE |
| 3 | AC_OK | 8 | NC |
| 4 | PS ON/OFF | 9 | NC |
| 5 | +SENSE | 10 | NC |




* AC_OK & DC_OK Signal are Logic High
* Pull PS ON/OFF High to Inhibit the PS

## Mechanical Specification




*Typical at 25℃, nominal line and 60% rated load, unless otherwise Specified*