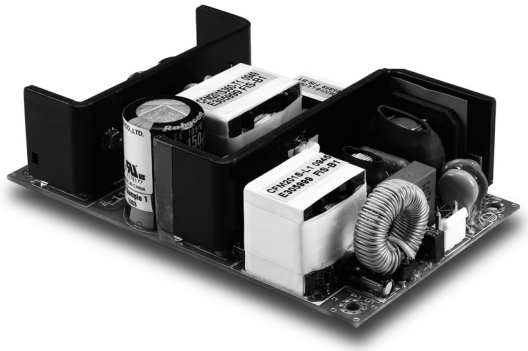
CFM201S

S E R I E S

200 WATT AC-DC OPEN FRAME WITH PFC



E176177

Features

- Universal Input Range 90~264VAC
- Active PFC Meets EN61000-3-2
- Conductive EMI Meets CISPR/FCC Class B
- High Efficiency up to 92%
- Remote Voltage Sense
- Over temperature protection

MODEL	OUTPUT VOLTAGE	Output Current		Ripple & Noise NOTE 1	VOLTAGE ACCURACY NOTE 2	Line Regulation NOTE 3	Voltage ADJ. Range	Load Regulation NOTE 4	%EFF. (Typ.) NOTE 5
		Rated1	Rated2						
Main Output Voltage									
CFM201S120	+12 V	16.67 A	12.5 A	120 mV	± 1%	± 0.5%	11.4~12.6	± 1%	89%
CFM201S240	+24 V	8.34 A	6.25 A	150 mV	± 1%	± 0.5%	22.8~25.2	± 1%	90%
CFM201S360	+36 V	5.56 A	4.17 A	150 mV	± 1%	± 0.5%	34.2~37.8	± 1%	91%
CFM201S480	+48 V	4.17 A	3.13 A	150 mV	± 1%	± 0.5%	45.6~50.4	± 1%	92%
Fan Output Voltage									
All	+12 V	0.5 A		120 mV	± 3%	± 1%	——	± 5%	——

Rated1: Forced air convection
Rated2: Natural convection
Specifications are subject to change without notice.

Specifications

INPUT SPECIFICATIONS:

AC Input Voltage .....90~264Vac
Input current ..... 100Vac/3A max., 240Vac/1.5A max.
Frequency ..... 47 to 63Hz
Inrush Current .....Cold start@25˚C100mA max.@240Vac
EMI ..... CISPR/FCC Class B
Leakage Current ..... 3.5mA max.

OUTPUT SPECIFICATIONS:

Isolation ..... Input to Output = 4,242VDC
Hold-up Time ..... 10ms typ@115Vac
Over Voltage Protection ..... Hiccup mode(Auto Recovery)
Short Circuit Protection ..... Hiccup mode(Auto Recovery)
Temperature Coefficient ..... ±0.05%/˚C

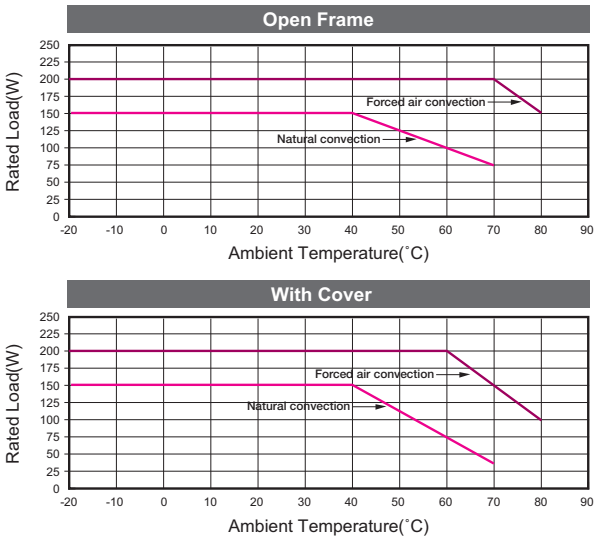
GENERAL SPECIFICATIONS:

Operating Temperature ..... -20~80˚C (see derating curve)
Storage Temperature ..... -20~85˚C
Over Temperature Protection ..... Auto Recovery
Humidity .....93% RH max. non-condensing
Altitude 2000m
Cooling ..... Natural convection for 150W and forced air convection(19CFM FAN) for 200W
Switching Frequency..... 80~100KHz typ.
Dimensions:
Open frame versions 5.000x3.000x1.441 inches (127.00x76.20x36.60 mm)
Covered versions.....5.354x3.465x1.929 inches (136.00x88.00x49.00 mm)
Weight .....Open frame versions 400g, Covered versions 500g

SAFETY AND EMC:

Emission and Immunity .....EN55022 Class B, FCC Part15 Class B
EN61000-6-3, EN61000-3-2, EN61000-3-3
EN55024, EN61000-6-1, EN61204-3
Safety .....IEC60950-1, EN60950-1, UL60950-1 2nd edition

CFM201S Series Derating Curve



NOTE:

1. Add a 0.1μF ceramic capacitor and a 10μF E.L. capacitor to output for Ripple & Noise measuring @20MHz BW
2. Voltage accuracy is set at 100% rated load and 25˚C.Ta.
3. Line regulation is measured from High Line to Low Line with rated load.
4. Load regulation is measured from Full to 10% load.
5. Typical efficiency at 230 VAC and full load at 25˚C.
6. Standard input and output connectors (CN1 and CN2) wafer with TAIWAN KING PIN TERMINAL PVHI series and mate with JST housing VHR series and JST SVH-21/41T-P1.1 series crimp terminal or equivalent.
7. Optional Input and output connectors (CN1 and CN2) wafer with LONG CHU P3060 series and mate with MOLEX housing 5195 series and MOLEX 5194 series crimp terminal or equivalent.
8. Output connector CN3(Remote voltage sense) mates with MOLEX housing 5051 or equivalent.
9. Output connector CN4(Fan output) mates with MOLEX housing 5051or equivalent.
10. For covered versions add "C" to model number or order part no.
    For example CFM201S120 –C, safety approvals do not the covered assembly, only to the open-frame power supply.

CFM201S Series

All Dimensions In Inches(mm)
Tolerance Inches: x.xxx= ±0.02
Millimeters: x.xx= ±0.5

CN1:

PIN CONNECTION	
Pin	*Function*
1	ACL
2	-
3	ACN

CN2:

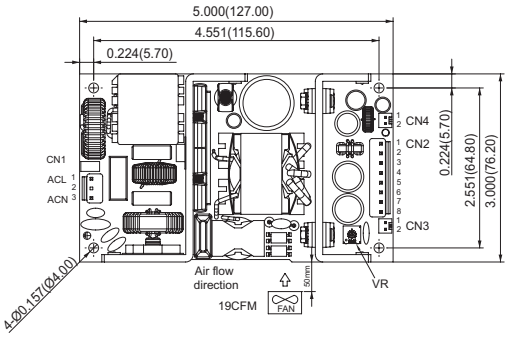
PIN CONNECTION			
Pin	*Function*	*Pin*	*Function*
1	Vout(+)	5	Vout(-)
2	Vout(+)	6	Vout(-)
3	Vout(+)	7	Vout(-)
4	Vout(+)	8	Vout(-)

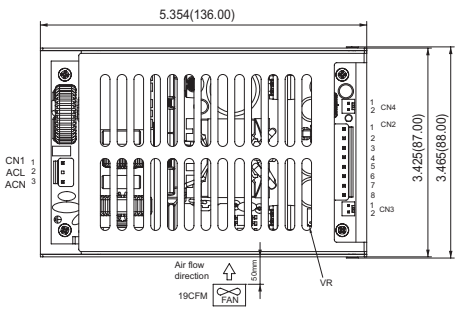
CN3:

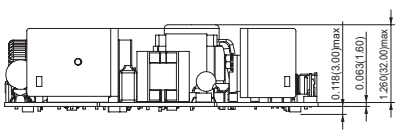
PIN CONNECTION	
Pin	*Function*
1	Rs+
2	Rs-

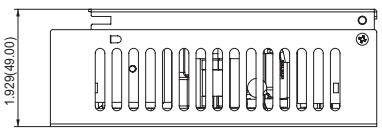
CN4:

PIN CONNECTION	
Pin	*Function*
1	FAN V+
2	FAN V-









Typical at 25˚C, nominal line and 75% load, unless otherwise Specified