



CFM201S SERIES

200 WATT AC-DC OPEN FRAME WITH PFC



Features

- Universal Input : 90 ~ 264Vac
- Active PFC Meets EN61000-3-2
- Conductive EMI Meets CISPR/FCC Class B
- High Efficiency at 92% Typical
- Remote Voltage Sense
- Over temperature protection



Model	Output Voltage	Output Current		Min. Load	Ripple & Noise	Voltage Accuracy	Line Regulation	Voltage ADJ.Range	Load Regulation	EFF. TYP.
		Rated1	Rated2							
Main Output Voltage										
CFM201S120	+12 V	16.67A	12.5A	0 A	120mV	± 1%	± 0.5%	11.4~12.6	± 1%	89%
CFM201S240	+24 V	8.34A	6.25A	0 A	150mV	± 1%	± 0.5%	22.8~25.2	± 1%	90%
CFM201S360	+36 V	5.56A	4.17A	0 A	150mV	± 1%	± 0.5%	34.2~37.8	± 1%	91%
CFM201S480	+48 V	4.17A	3.13A	0 A	150mV	± 1%	± 0.5%	45.6~50.4	± 1%	92%
Fan Output Voltage										
All	+12V	0.5A		0A	120mV	± 3%	± 1%	--	± 5%	--

Note:1.Rated1:Forced air convection
2.Rated2:Natural convection

Specifications

INPUT SPECIFICATIONS:

AC Input Voltage 90~264Vac
 Input current.....2.1A/115Vac,1.1A/230Vac
 Frequency 47 to 63Hz
 Inrush Current 100A max. @240Vac Cool Start
 EMI CISPR/FCC Class B
 Isolation Input to output = 4242VDC
 Leakage Current 3.5mA max.

OUTPUT SPECIFICATIONS:

Total Rated Output Power 200W
 Hold-up Time 10ms typ@115Vac.
 Over Voltage Protection Hiccup mode(Auto Recovery)
 Over Temperature Protection Auto Recovery
 Short Circuit Protection..... Auto Recovery
 Temperature Coefficient..... $\pm 0.05\%$ °C

ENVIRONMENTAL CHARACTERISTICS:

Operating Temperature Humidity.....93% max. non-condensing
 Operating Temperature..... -20~80°C (see derating curve)
 Operating altitude.....2000m
 Storage Temperature -20~85°C
 Cooling.....Natural convection for 150W and forced air convection(19CFM FAN) for 200W

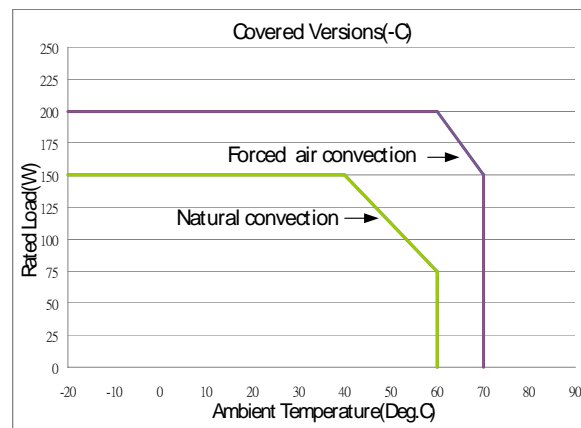
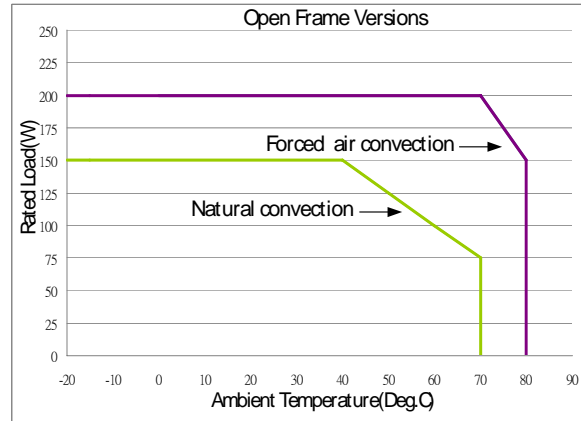
MECHANICAL CHARACTERISTICS:

Dimensions.....
 Open frame versions 5.00x3.00x1.44 Inches (127x76.20x36.60mm)
 Covered versions 5.35x3.46x1.92 Inches (136x88x49.0mm)
 Weight..... Open frame versions 400g
 Covered versions 500g

NOTE:

- Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for Ripple & Noise measuring @20MHz BW
- Voltage accuracy is set at 60% rated load and 25°C.Ta.
- Line regulation is measured from High Line to Low Line with rated load.
- Load regulation is measured from Full to 10% load.
- Standard input and output connectors (CN1 and CN2) mate with JST housing VHR series or equivalent.
- Optional Input and output connectors (CN1 and CN2) wafer with LONG CHU P3060 series and mate with MOLEX housing 5195 series or equivalent .
- Output connector CN3(Remote voltage sense) mates with MOLEX housing 5051 or equivalent.
- Output connector CN4(Fan output) mates with MOLEX housing 5051 or equivalent
- For covered versions add ' -C' to model number or order part no. For example CFM201S120 -C.

CFM201S Series Derating Curve

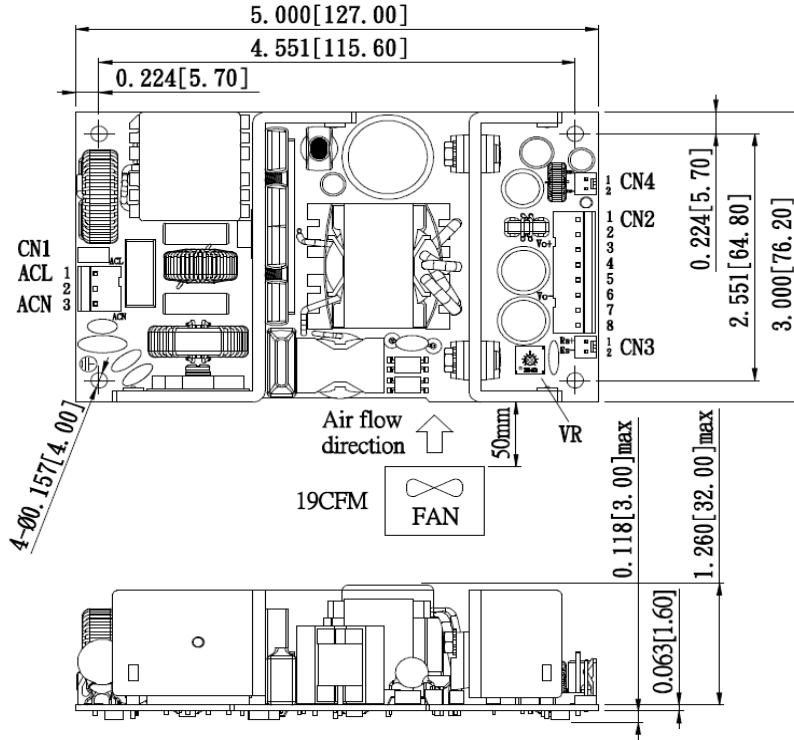


PIN CONNECTION		
CN1(AC input)		
PIN	Name	Note
1	ACL	Line
2	-	-
3	ACN	Neutral
CN2(DC Output)		
PIN	Name	Note
1~4	Vout(+)	+Vout
5~8	Vout(-)	Ground
CN3(Remote voltage sense)		
PIN	Name	Note
1	Rs+	Remote voltage sense+
2	Rs-	Remote voltage sense-
CN4(Fan output)		
PIN	Name	Note
1	FAN V+	Fan output+
2	FAN V-	Fan output-

Mechanical Specification

All Dimensions are in inches[mm]
 Tolerances: Inches: X.XXX±0.02
 Millimeters: X.XX±0.5

Open Frame Versions



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(-)

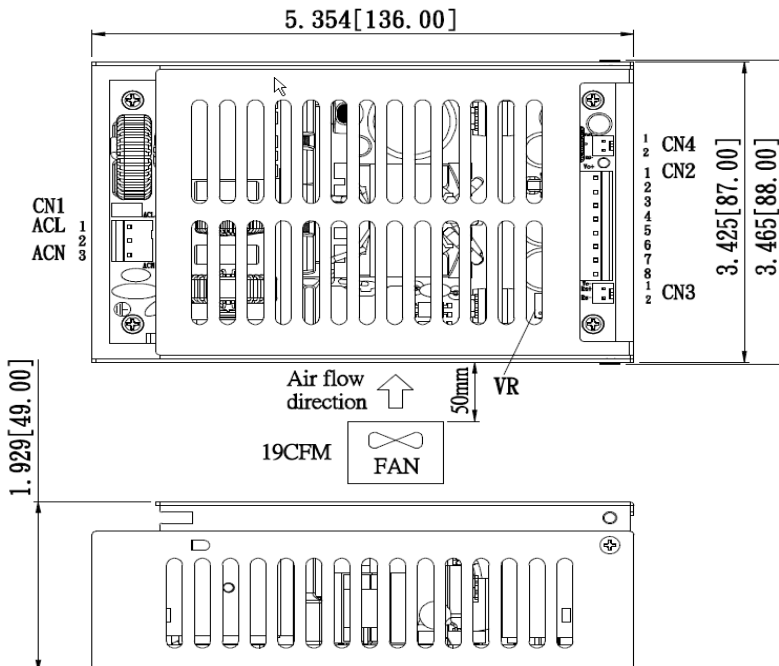
CN3: PIN CONNECTION

Pin	Function
1	Rs+
2	Rs-

CN4: PIN CONNECTION

Pin	Function
1	FAN V+
2	FAN V-

Covered Versions (-C)



Typical at 25°C, nominal line and 60% load, unless otherwise Specified.