

AC-DC

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stadium
POWER

CFM201S SERIES

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

Safety Approvals



Electrical Characteristics:

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	0A	120mV	± 1%	± 0.5%	11.4~12.6	± 1%	89%
CFM201S240	+24 V	8.34A	6.25A	0A	150mV	± 1%	± 0.5%	22.8~25.2	± 1%	90%
CFM201S240	+36 V	5.56A	4.17A	0A	150mV	± 1%	± 0.5%	34.2~37.8	± 1%	91%
CFM201S480	+48 V	4.17A	3.13A	0A	150mV	± 1%	± 0.5%	45.6~50.4	± 1%	92%
Fan Output Voltage										
All	+12 V	0.5A		0A	120mV	± 3%	± 1%	--	± 5%	--
Note:1.Rated1:Forced air convection										
2.Rated2:Natural convection										


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Specification

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 ±0.05

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

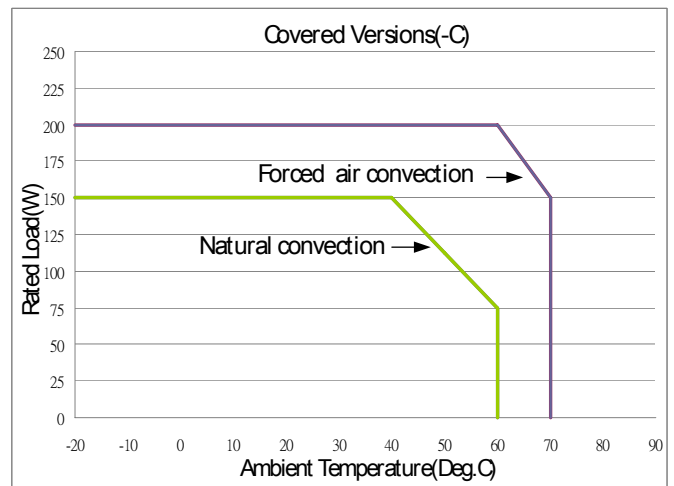
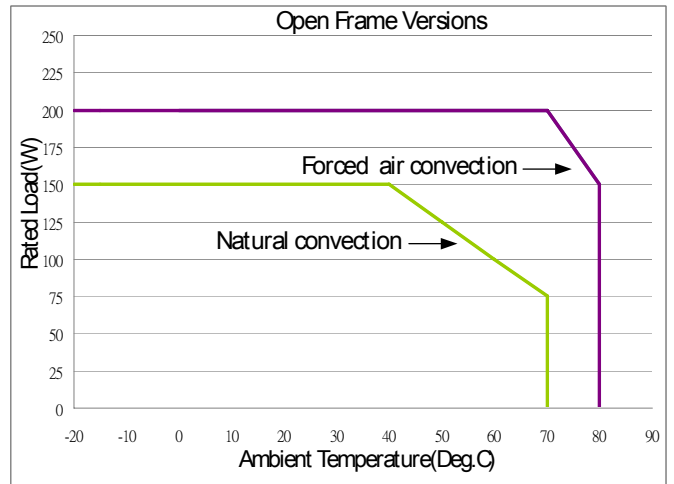
MECHANICAL CHARACTERISTICS:

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:

1. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for Ripple & Noise measuring @20MHz BW
2. Voltage accuracy is set at 60% 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. Standard input and output connectors (CN1 and CN2) mate with JST housing VHR series or equivalent.
6. Optional Input and output connectors (CN1 and CN2) wafer with LONG CHU P3060 series and mate with MOLEX housing 5195 series or equivalent .
7. Output connector CN3(Remote voltage sense) mates with MOLEX housing 5051 or equivalent.
8. Output connector CN4(Fan output) mates with MOLEX housing 5051 or equivalent
9. 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-

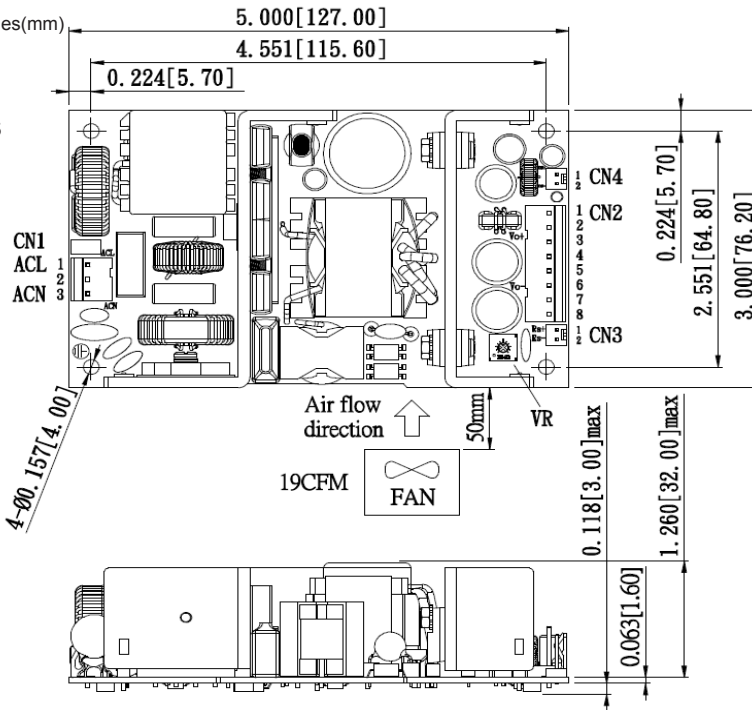
CN4(Fan output)

PIN	Name	Note
1	FAN V+	Fan output+

Open Frame Versions

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(-)

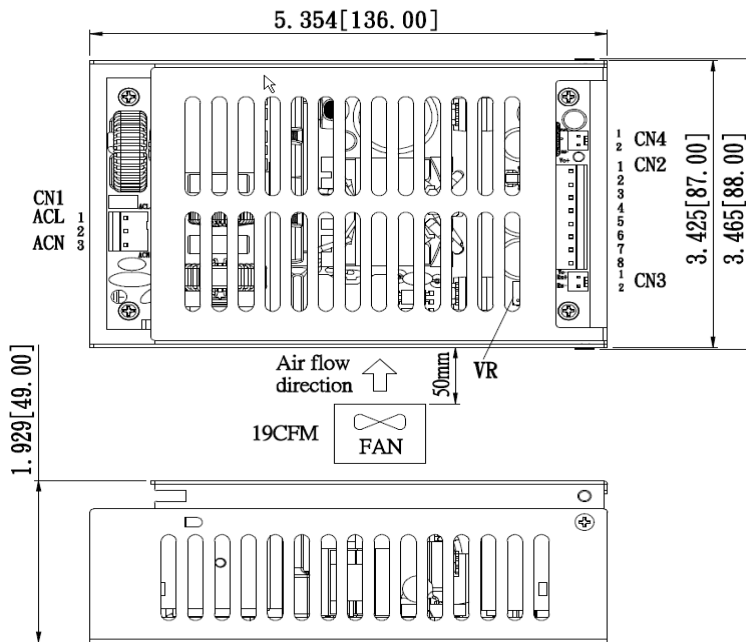
CN3:
PIN CONNECTION

Pin	Function
1	Rs+
2	Rs-

CN4:
PIN CONNECTION

Pin	Function
1	FAN V+
2	FAN V-

Covered Versions (-C)



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

Data sheets are subject to change without notice, please check with our sales office before ordering