

S E R I E S

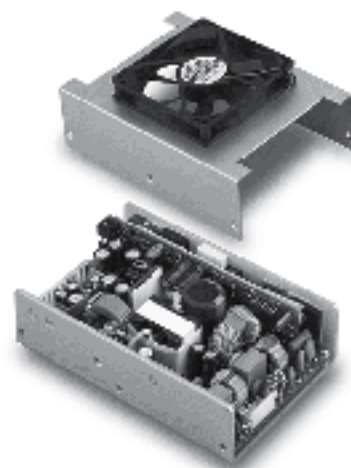
CFM200Q

200 WATT 4 OUTPUT
U FRAME AC-DC MODULES
WITH PFC



CB

NEW



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 75% Typical
- Remote Voltage Sense
- AC OK Signal (Logic High)
- DC OK Signal (Logic High)
- PS ON/OFF Remote Control (Inhibit PSU by Adding Logic High)

Specifications

INPUT CHARACTERISTICS:

AC Input Voltage.....	90 – 264Vac
Frequency.....	47 to 63Hz
Inrush Current.....	80A Max.
EMI.....	CISPR/FCC Class B
Isolation.....	Input to output =1.2kVdc
Leakage Current.....	3.5mA Max.

ENVIRONMENTAL CHARACTERISTICS:

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

NOTE:

- Optional fan can be added when ordering. Top Cover with Fan (no external air is needed)
- Add a 0.1uF ceramic capacitor and a 47uF E.L. capacitor to output for Ripple & Noise (maximum 800MHz BW)
- Voltage accuracy is at 60% rated load and 23°C.
- Line regulation is measured from High Line to Low Line with rated load.
- Load regulation is measured at 60% ± 40% rated load and rated load for other outputs.

OUTPUT CHARACTERISTICS:

Total Rated Output Power.....	200W (with 30CFM air flow or optional fan)
Total Peak Output Current (between.....)	35A for CFM200Q-1 Series
V1 and V2.....	25A for CFM200Q-2 Series
Remote Voltage Sense.....	Compensates for wire drops of V1 & V2
Hold-up time.....	18ms typ.
Over Voltage Protection.....	Recycle AC input to restart.
Over Temperature Protection.....	Auto Recovery
Short Circuit Protection.....	Auto Recovery

MECHANICAL OUTLINE:

Standard U Frame.....	150 x 100 x 38.1mm (5.91" x 3.94" x 1.5")
With Optional Fan.....	150 x 101.6 x 50.5mm (5.91" x 4" x 2.0")
Weight.....	770g

- 30 seconds duration with 10% duty cycle for peak outputs currents (within 200W total rated output power).
- Dimensions tolerance: ±0.1mm
- Connectors:
 CR1(AC Input) : Molex 5273-05A or equivalent
 CR2(DC Output) : Molex 5273-12A or equivalent
 Optional Connectors :
 CR3(Signal) : Molex 4644-10 or equivalent
 CR4(CM1 (Fan Output)) : Molex 5045-09A or equivalent

Typical at 25°C, 230Vac and 60% rated load, unless otherwise specified

MODEL	Output		Output Current (A)			Ripple & Noise	Voltage Accuracy	Line Reg.	Load Reg.	O/P Power Total Rated
	n/p	Voltage	Min.	Rated	Max.					
CFM200Q-111 (CFM200Q-112)	V1	+5V	1.5	15	25	2%	±3%	±1%	±2%	200W
	V2	+3.3V	1.5	15	20	2%	±3%	±1%	±2%	
	V3	+12V	3.5	5	10	2%	±4%	±1%	±5%	
	V4	-5V/-12V	0	1	-	2%	±3%	±1%	±5%	
CFM200Q-121 (CFM200Q-123)	V1	+5V	1.5	15	25	2%	±3%	±1%	±2%	200W
	V2	+3.3V	1.5	15	20	2%	±3%	±1%	±2%	
	V3	+15V	0.5	1	1	2%	±4%	±1%	±5%	
	V4	+5V/-15V	0	1	-	2%	±3%	±1%	±5%	
CFM200Q-221 (CFM200Q-222)	V1	+5V	1.5	15	25	2%	±3%	±1%	±2%	200W
	V2	+12V	3.5	5	10	2%	±3%	±1%	±2%	
	V3	+15V	3.5	4	5	2%	±4%	±1%	±5%	
	V4	-5V/-12V/-15V	0	1	-	2%	±3%	±1%	±5%	
CFM200Q-231 (CFM200Q-232)	V1	+5V	1.5	15	25	2%	±3%	±1%	±2%	200W
	V2	+12V	3.5	5	10	2%	±3%	±1%	±2%	
	V3	+24V	3.5	2.5	3	2%	±4%	±1%	±5%	
	V4	-5V/-12V	0	1	-	2%	±3%	±1%	±5%	

Mechanical Specification

All dimensions are in millimeter.
Tolerances: (X±0) (X±.1) Unless otherwise noted

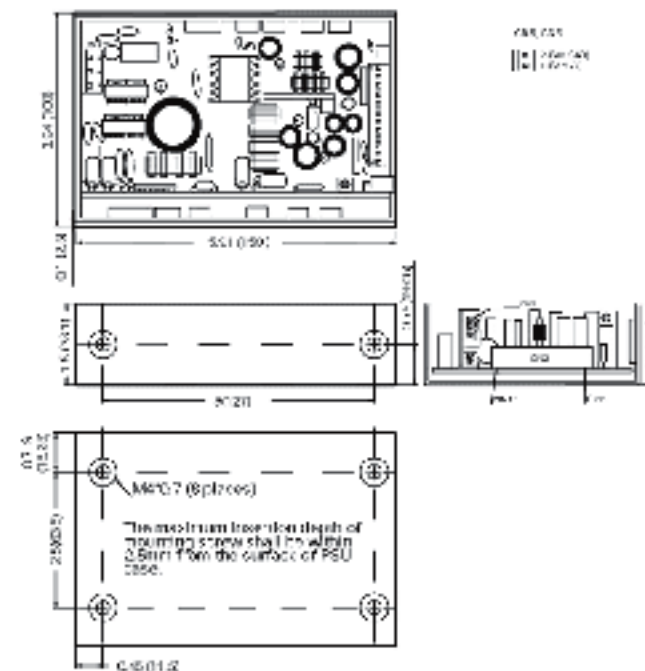


Fig.1. Mechanical Outline of CFM200Q

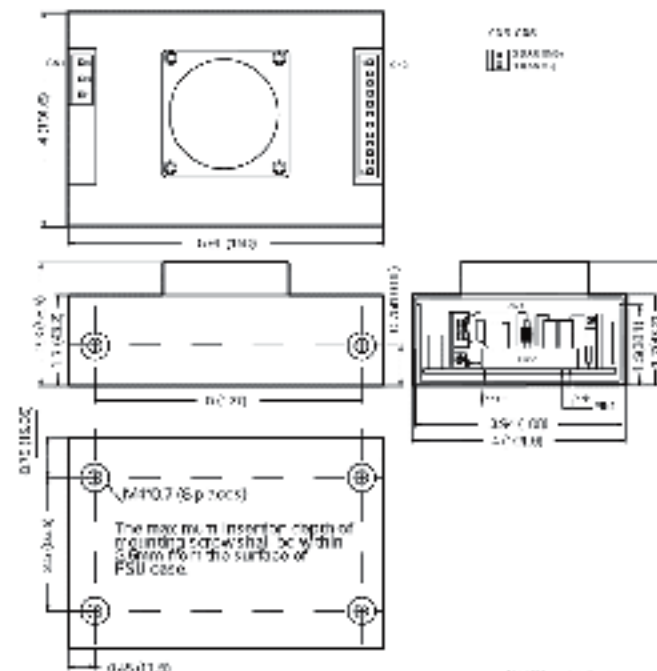


Fig.2. Mechanical Outline of CFM200QA (With Optional Fan)



Pin	ASSIGNMENT
1	V1 (+)
2	V1 PWR GND
3	PWR GND
4	PWR GND
5	V1 (+)
6	V2 (+)
7	PWR GND
8	PWR GND
9	V1 (+)
10	V1 (+)
11	V2 (+)
12	V2 (+)

Pin	ASSIGNMENT
1	+12V(FAN)
2	GND (FAN)
3	NC
4	NC
5	Line

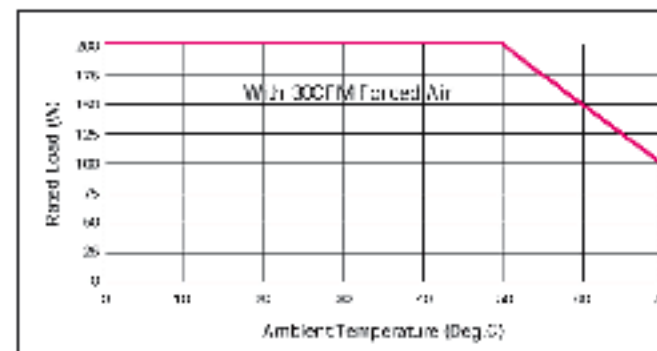


Fig.3. Output Derating Curve