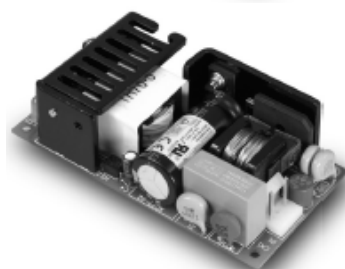
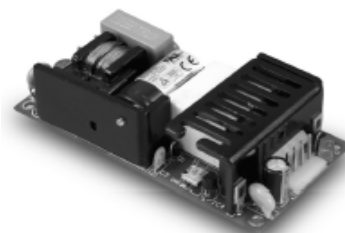




## Features

- \* Universal Input Range 90~264VAC
- \* 2"x 4" Size
- \* Industry Standard Pin Out
- \* Efficiency to 87%
- \* Meets EN55022 Class B and CISPR/FCC Class B,
- \* Continuous Short Circuit Protection



### CFM40 Series

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE	VOLTAGE ACCURACY	LINE REGULATION	LOAD REGULATION	% EFF. (Typ.)
CFM40S033	3.3 V	6 A	50mV	±1%	±0.5%	±1%	70%
CFM40S050	5 V	6 A	1%	±1%	±0.5%	±1%	76%
CFM40S090	9 V	4.45 A	1%	±1%	±0.5%	±1%	84%
CFM40S120	12 V	3.34 A	1%	±1%	±0.5%	±1%	85%
CFM40S150	15 V	2.67 A	1%	±1%	±0.5%	±1%	85%
CFM40S240	24 V	1.67 A	1%	±1%	±0.5%	±1%	85%
CFM40S300	30 V	1.33 A	1%	±1%	±0.5%	±1%	86%
CFM40S360	36 V	1.11 A	1%	±1%	±0.5%	±1%	87%
CFM40S480	48 V	0.834 A	1%	±1%	±0.5%	±1%	87%

### CFM60 Series

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE	VOLTAGE ACCURACY	LINE REGULATION	LOAD REGULATION	% EFF. (Typ.)
CFM60S033	3.3 V	8 A	50mV	±1%	±0.5%	±1%	72%
CFM60S050	5 V	8 A	1%	±1%	±0.5%	±1%	77%
CFM60S090	9 V	6.67 A	1%	±1%	±0.5%	±1%	84%
CFM60S120	12 V	5 A	1%	±1%	±0.5%	±1%	85%
CFM60S150	15 V	4 A	1%	±1%	±0.5%	±1%	86%
CFM60S240	24 V	2.5 A	1%	±1%	±0.5%	±1%	86%
CFM60S300	30 V	2 A	1%	±1%	±0.5%	±1%	86%
CFM60S360	36 V	1.67 A	1%	±1%	±0.5%	±1%	88%
CFM60S480	48 V	1.25 A	1%	±1%	±0.5%	±1%	88%

## Specifications

## CFM40/60S Series Derating Curve

### INPUT SPECIFICATIONS:

Voltage .....	90~264Vac
Frequency .....	47 to 63Hz
Inrush Current .....	Cold Start@25°C ..... 50A max. @240Vac
Leakage Current .....	1mA Typical

## OUTPUT SPECIFICATIONS:

Holdup Time .....	8ms typ. @115Vac
Short Circuit Protection .....	Hiccup Mode (Auto Recover)
Over Voltage Protection .....	TVS Component to Clamp
Temperature Coefficient .....	±0.05%/°C

### GENERAL SPECIFICATIONS:

Isolation .....	Input to Output = 4,242VDC
Operating Temperature .....	0 ~ 70°C (see Derating Curve)
Storage Temperature .....	-20~85°C
Humidity .....	93% RH max. Non-Condensing
Cooling .....	Natural Convection
Switching Frequency .....	66KHz Typical
MTBF .....	MIL-HDBK-217F, GB, 25°C/115VAC ... 200Khrs min.
Altitude .....	2000m
Dimensions:	
CFM40/60 Open Frame .....	4.000x2.000x1.200Inches (101.60x50.80x30.48mm)
CFM40/60 Covered .....	4.606x2.441x1.5750Inches (117.00x62.00x40.00mm)
Weight .....	CFM40/60: 170g/175g (0.38/0.39 Pounds)
	CFM40/60 Covered: 210g/215g (0.46/0.47 Pounds)

## SAFETY AND EMC:

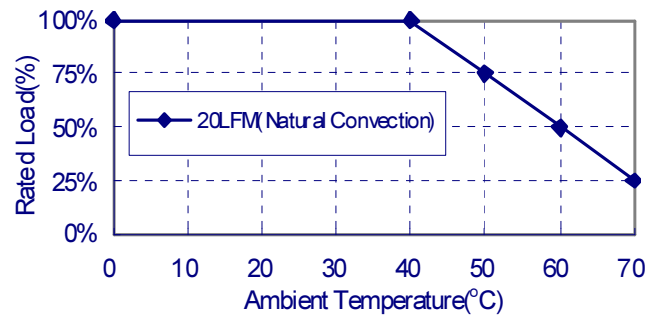
Emission and Immunity .....	EN55022 Class B, FCC Part 15 Class B EN61000-6-3, EN61000-3-2, EN61000-3-3 EN55024, EN61204-3, EN61000-6-1
Safety .....	IEC60950-1, EN60950-1, UL60950-1

**NOTE:**

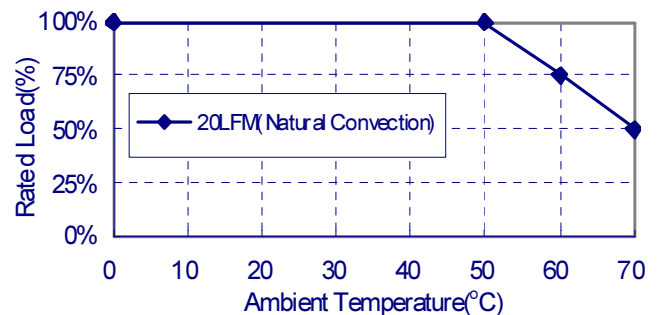
1. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for Ripple & Noise measuring @20MHz BW.
2. Line regulation is measured from high line to low line with full load.
3. Load regulation is measured from full to 10% load.
4. Input connector mates with Molex housing 09-50-3031 and Molex 2878 series crimp terminal.
5. Output connector mates with Molex housing 09-50-3041 and Molex 2878 series crimp terminal.
6. Safety approvals do not apply to the covered versions, only to the open-frame versions.

## Open Frame versions:

CFM40S033, 40S050, 40S090, 60S033, 60S050, 60S090

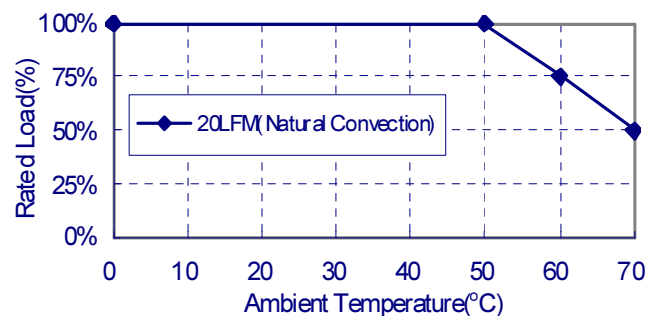


CFM40S120, 40S150, 40S240, 40S300, 40S360, 40S480  
CFM60S120, 60S150, 60S240, 60S300, 60S360, 60S480

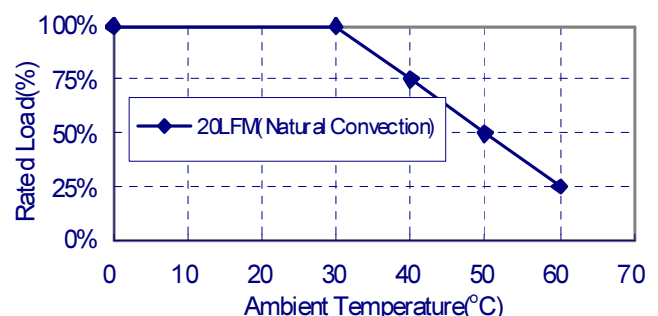


**Covered versions: CFM40/60XXX-CA**

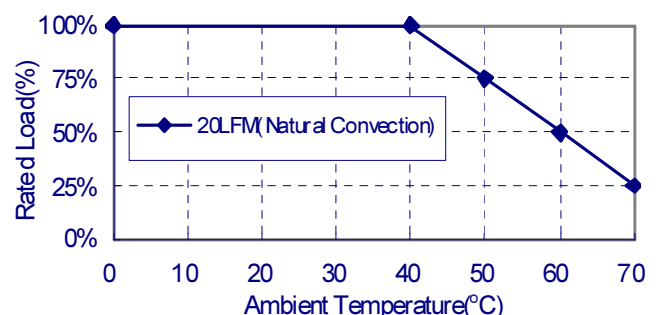
CFM40S120, 40S150, 40S240, 40S300, 40S360, 40S480



**CFM40S033, CFM40S050, CFM60S033, CFM60S050**



**CFM40S090, 60S090, 60S120, 60S150, 60S240, 60S300**  
**CFM60S360, 60S480**



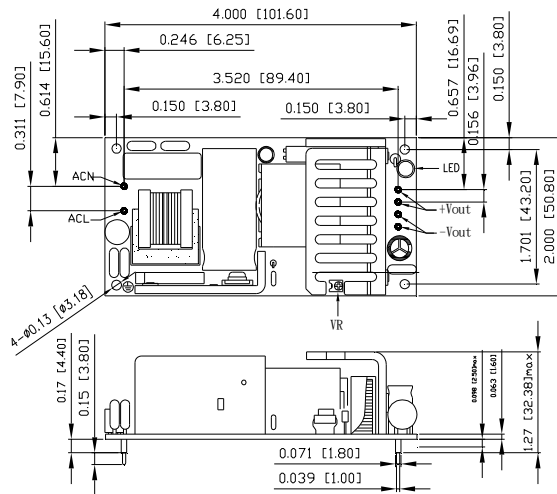
## CFM40/60S Series

All Dimensions are in inches(mm)

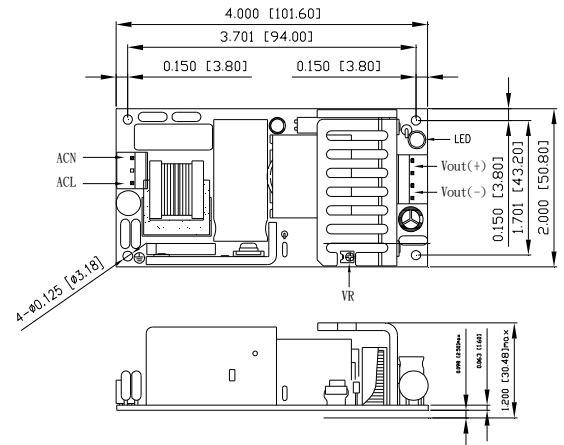
Tolerance: Inches: X.XXX±0.02

Millimeters: X.XX±0.5

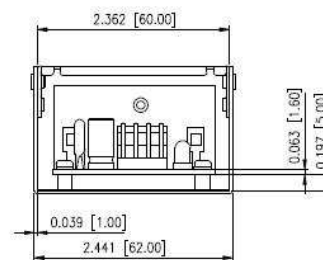
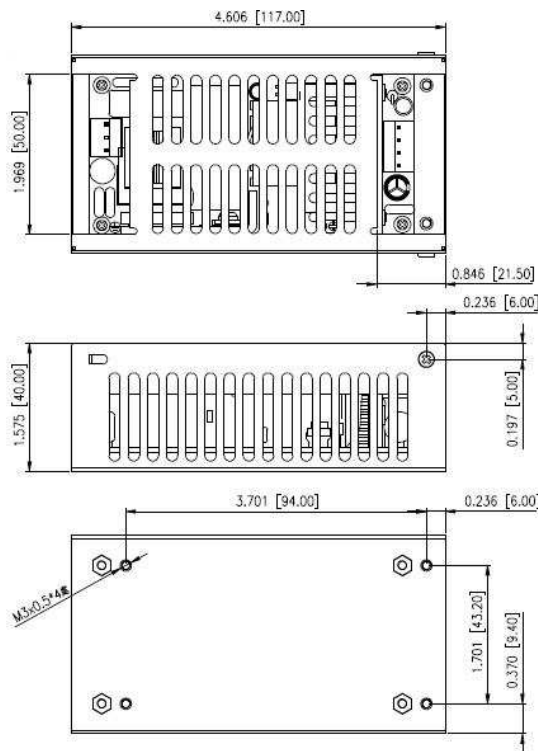
CFM40SXXX-P/CFM60SXXX-P  
(Input and Output connector with PIN)



CFM40SXXX/CFM60SXXX



CFM40SXXX/CFM60SXXX-CA



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