



# CFM351M SERIES

## 350 WATT AC-DC POWER SUPPLY WITH PFC



### Features

- \* Universal Input Range 90~264V<sub>ac</sub>
- \* Meets EN60601-1 and EN55011 Class B
- \* 350W with Free Air Convection @ 220V<sub>ac</sub>
- \* Active PFC Meets EN61000-3-2 Class D
- \* High Efficiency up to 93% Typical
- \* Remote Voltage Sense
- \* PS On/Off Remote Control
- \* +5V Stand-by Output Power
- \* 12V Fan Output
- \* Meets 2MOPP



MODEL	VOLTAGE OUTPUT	OUTPUT CURRENT(A)		RIPPLE & NOISE	VOLTAGE ADJ.RANGE	VOLTAGE ACCURACY	LINE REG.	LOAD REG.	%EFF. (Typ)
		RATED1	RATED2						
<b>Main Output Voltage</b>									
CFM351M050	+5 V	60	40	100 mVp-p	4.75~5.25	±1.0%	±0.5%	±1%	88%
CFM351M120	+12 V	29.2	25	120 mVp-p	11.4~12.6	±1.0%	±0.5%	±1%	92%
CFM351M240	+24 V	14.6	12.5	150 mVp-p	22.8~25.2	±1.0%	±0.5%	±1%	93%
CFM351M480	+48 V	7.3	6.25	150 mVp-p	45.6~50.4	±1.0%	±0.5%	±1%	93%
<b>Stand-by Output Voltage</b>									
All	+5.0 V	0.3	0.3	----		----	----	----	
<b>Fan Output Voltage</b>									
All	+12.0 V	0.3	0.3	----		----	----	----	

Note:

1. RATED1: 10CFM Air Flow
2. RATED2: Natural Convection (at 110 ~ 200 V<sub>ac</sub>, Refer to Derating Curve)

## Specifications

### INPUT SPECIFICATIONS:

AC Input Voltage	90~264V <sub>ac</sub> 120~370V <sub>dc</sub>
Frequency	47 to 63Hz
Inrush Current	50A max. @240Vac
Leakage Current @ 264V <sub>ac</sub>	300uA max.

### OUTPUT SPECIFICATIONS:

Total Rated Output Power	350W
Remote Voltage Sense	Compensates for Wire Voltage Drop
Adjustment Range on Vout	±5%
Hold-up Time	16ms typ.
Over Voltage Protection	Recycle AC Input to Restart
Short Circuit Protection	Hiccup Mode (Auto Recovery)
Temperature Coefficient	±0.05%/°C max.

### GENERAL SPECIFICATIONS:

Isolation	Input to Output = 5656V <sub>dc</sub>
Operating Temperature	-20 ~ 70°C (See Derating Curve)
Storage Temperature	-40~85°C
Humidity	93% RH max. Non Condensing
Switching Frequency	55kHz Typical
MTBF	MIL-HDBK-217F, GB, 25°C/115V <sub>ac</sub> , 100Khrs min.
Altitude	3000m
Dimensions	6.500x4.000x1.516 Inches (165.00x101.60x38.60 mm)
Weight	640g (1.42Pounds)

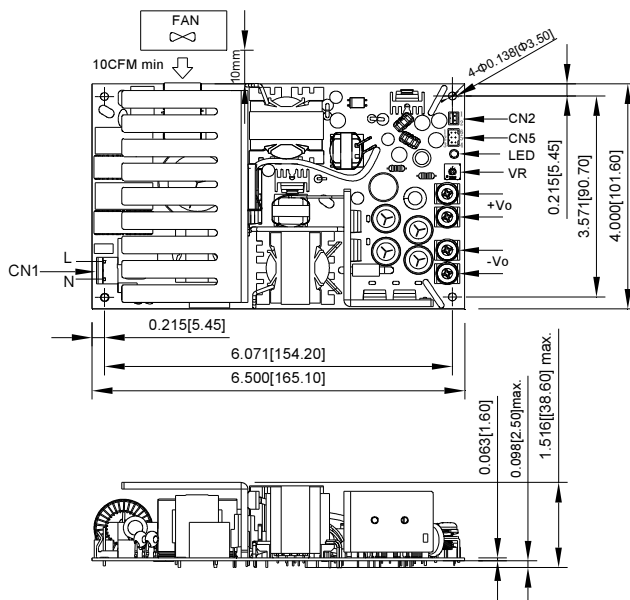
### SAFETY AND EMC:

Emission and Immunity	EN60601-1-2:2015 ed. 4.0 EN55011 Class B, FCC CFR 47 Part 15 IEC61000-3-2, 3, IEC61000-4-2, 3, 4, 5, 6, 8, 11
Safety	IEC60601-1:2005+A1:2012 ed 3.1 EN60601-1:2006+A11:2011+A1+A12 ed 3.1, UL ANSI/AAMI ES60601-1:2005

### NOTE:

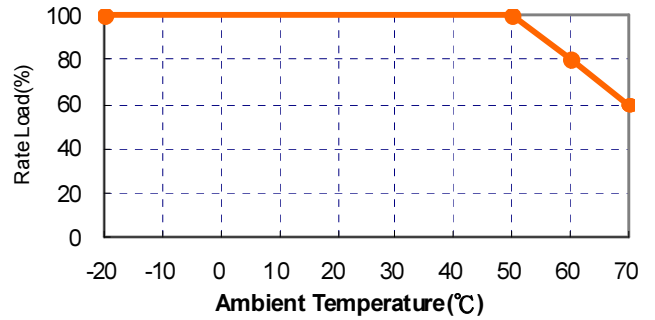
1. Add a 0.1uF ceramic capacitor and a 47uF E.L. capacitor to output for ripple&noise measuring @20MHz BW.
2. Voltage accuracy is set at 60% rated load and 25°C.Ta.
3. Line regulation is measured from high line to low line with rated load.
4. Load regulation is measured at 60%±40% rated.
5. CN1: LONG CHU P3060 Series or Equivalent  
CN2: JST B2B-PH-K-S or Equivalent  
CN5: LONG CHU P220V Series or Equivalent

### Mechanical Specification

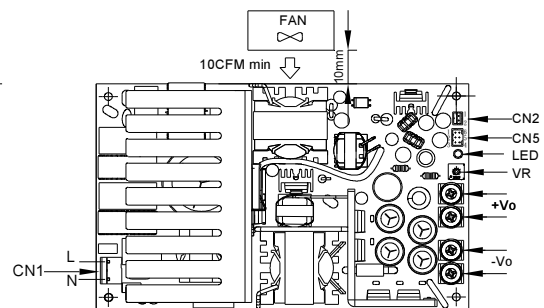
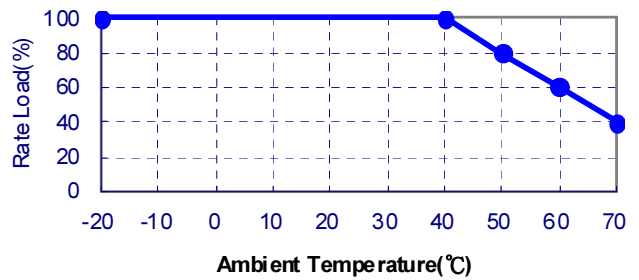
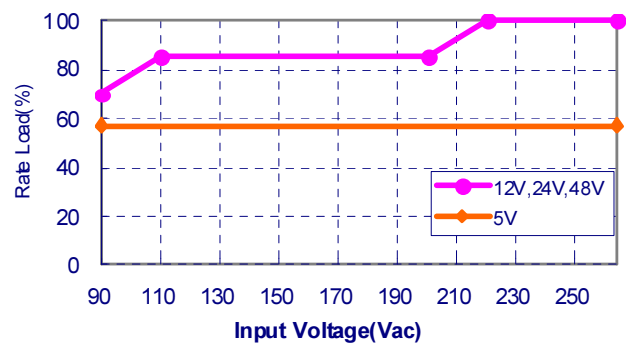


## CFM351M Series Derating Curve

350W with 10CFM Air Flow



350W with Natural Convection



FAN location for CFM351M050 only

CN5 PIN CONNECTION				CN2 PIN CONNECTION	
Pin	Function	Pin	Function	Pin	Function
1	GND	4	-SENSE	1	FAN output+
2	+5VSB	5	ENABLE	2	FAN output-
3	+SENSE	6	GND		

NOTE: Pull down Enable to activate the PSU

All Dimensions In Inches(mm)  
Tolerances Inches: X.XX=±0.04, X.XXX=±0.010  
Millimeters: X.X=±1.0, X.XX=±0.25

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