



CFM351M SERIES

350 WATT AC-DC POWER SUPPLY WITH PFC



Features

- * Universal Input Range 90~264V_{ac}
- * Meets EN60601-1 and EN55011 Class B
- * 350W with Free Air Convection @ 220V_{ac}
- * 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						
Main Output Voltage									
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%
Stand-by Output Voltage									
All	+5.0 V	0.3	0.3	----		----	----	----	
Fan Output Voltage									
All	+12.0 V	0.3	0.3	----		----	----	----	

Note:

1. RATED1: 10CFM Air Flow
2. RATED2: Natural Convection (at 110 ~ 200 V_{ac}, Refer to Derating Curve)

Specifications

INPUT SPECIFICATIONS:

AC Input Voltage	90~264V _{ac}
	120~370V _{dc}
Frequency	47 to 63Hz
Inrush Current	50A max. @240Vac
Leakage Current @ 264V _{ac}	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 _{dc}
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 _{ac} 100Khrs min.
Altitude	3000m
Dimensions	6.500x4.000x1.516 Inches (165.00x101.60x38.60 mm)
Weight	640g (1.42Pounds)

SAFETY AND EMC:

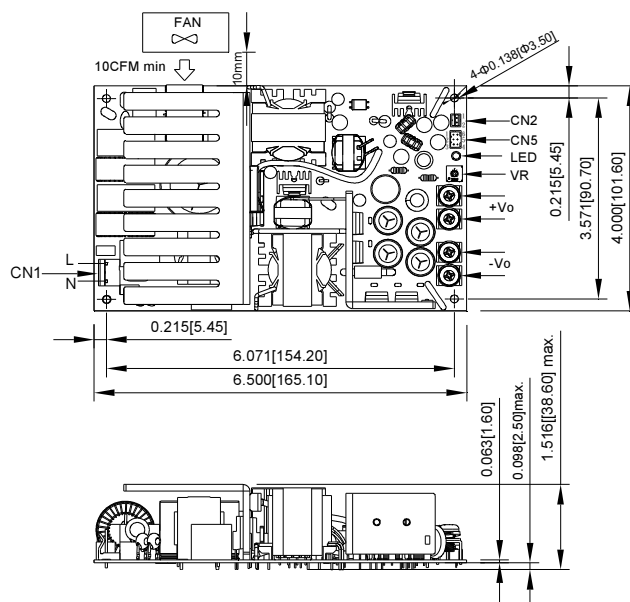
Emission and Immunity EN60601-1-2;2015 ed. 4.0
EN55011 Class B, FCC CFR 47 Part 15
IEC61000-3-2, 3, IEC61000-4-2, 3, 4, 5, 6, 8, 11

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

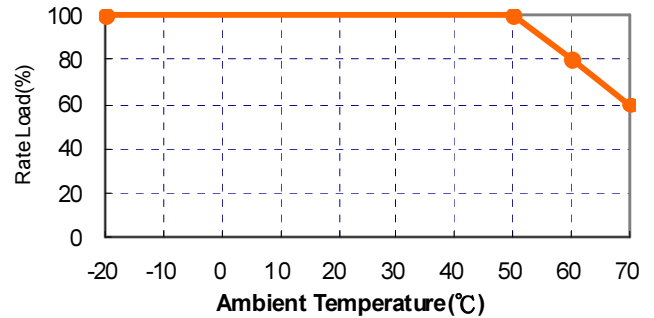
NOTE:

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

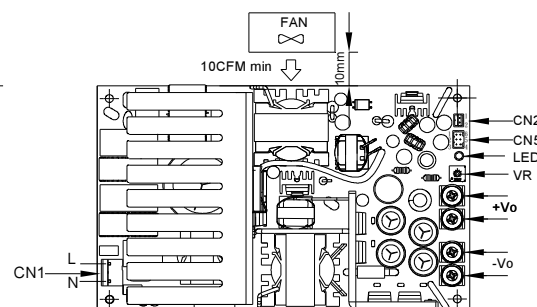
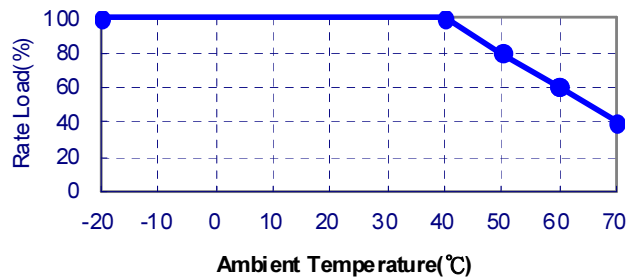
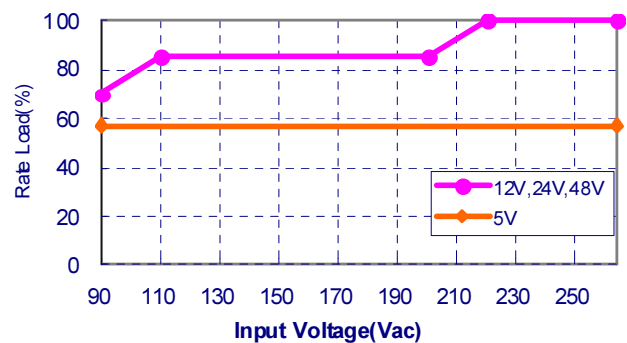
Mechanical Specification



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

NOTE: Full down Enable to activate
All Dimensions In Inches(mm)
Tolerances Inches: X.XX= ± 0.04 , X.XXX= ± 0.010
 Millimeters: X.X= ± 1.0 , X.XX= ± 0.25