CFM351M SERIES

350 WATT MEDICAL AC-DC POWER SUPPLY WITH PFC

E252331

Features

* Universal Input Range 90~264Vac
* Meets EN60601-1 and EN55011 Class B
* 350W with free air convection @ 220Vac
* 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 Vac, refer to derating curve)

Specifications

INPUT SPECIFICATIONS:

AC Input Voltage ..... 90~264Vac
Frequency ..... 47 to 63Hz
Inrush Current ..... 50A max. @240Vac
Leakage Current @ 264Vac ..... 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%/℃

GENERAL SPECIFICATIONS:

Isolation ..... Input to output = 5656VDC
Operating Temperature ..... -20 ~ 70℃ (see Derating Curve)
Storage Temperature ..... -40~85℃
Humidity ..... 93% RH max. Non condensing
Switching Frequency ..... 55KHz Typical
MTBF ..... MIL-HDBK-217F, GB, 25℃/115VAC ..... 100Khrs min.
Altitude 3000m
Dimensions ..... 6.500x4.000x1.516 Inches (165.00x101.60x38.60mm)
Weight ..... 640g(1.42Pounds)

SAFETY AND EMC:

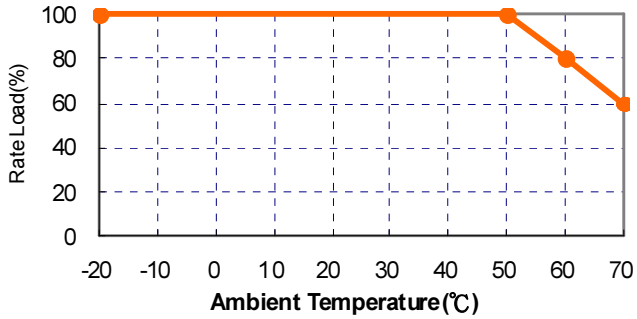
Emission and Immunity (Ed. 4.0) ..... EN55011 Class B, FCC CFR 47 Part 15
EN60601-1-2, IEC61000-3-2, 3, IEC61000-4-2, 3, 4, 5, 6, 8, 11
Safety (Ed. 3.1) ..... IEC60601-1:2005+A1:2012
EN60601-1:2006+A11:2011+A1+A12, UL ANSI/AAMI ES60601-1:2005

NOTE:

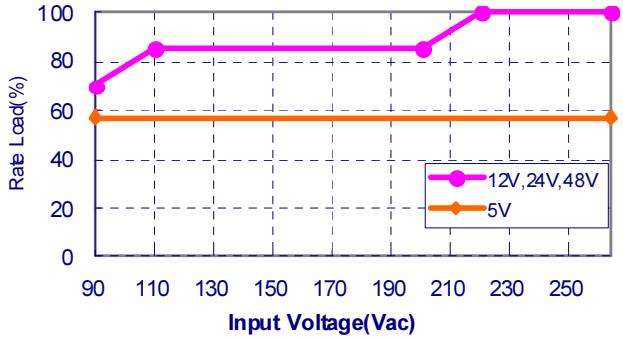
1. Add a 0.1uF ceramic capacitor and a 47uF E.L. capacitor to output for Ripple &Noise measuring @20MHz BW.
2. Voltage accuracy is set at 60% rated load and 25℃.Ta.
3. Line regulation is measured from high line to low line with rated load.
4. Load regulation is measured at 60%±40% rated.
5. CN1: LONG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

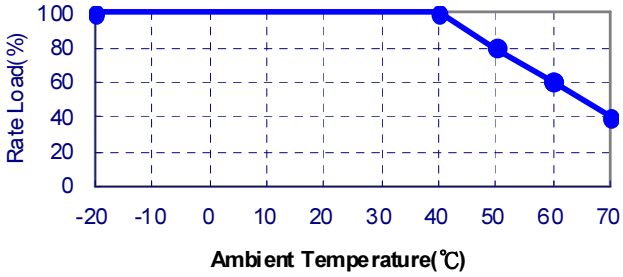
CFM351M Series Derating Curve

350W With 10CFM Air Flow



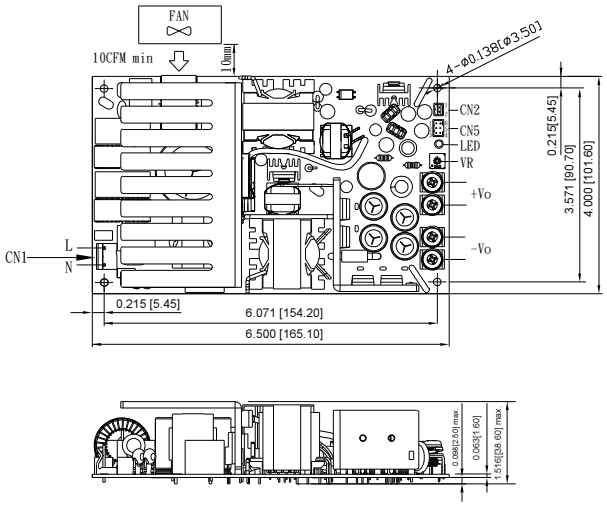
350W With Natural Convection

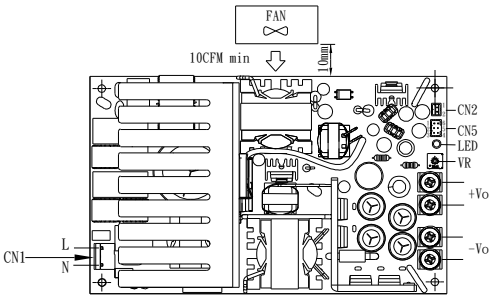




Mechanical Specification

Tolerances Inches: X.XX= ±0.04 , X.XXX= ±0.010
Millimeters: X.X= ±1.0 , X.XX=±0.25





FAN location for CFM351M050 only

CN5:
PIN CONNECTION

Pin	Function	Pin	Function
1	GND	4	-SENSE
2	+5VSB	5	ENABLE
3	+SENSE	6	GND

CN2:
PIN CONNECTION

Pin	Function
1	FAN output+
2	FAN output-

NOTE: Pull down Enable to activate the PSU

Typical at 25℃, 230Vac and 60% rated load, unless otherwise Specified