



## CFM-351M Series

### 350 WATT MEDICAL AC-DC POWER SUPPLY WITH PFC

#### 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



MODEL	Output Voltage	Output Current		Ripple & Noise	Voltage Adj.Range	Voltage Accuracy	Line Reg.	Load Reg.	% EFF typ.
		Rated1	Rated2						
<b>Main Output Voltage</b>									
CFM-351M050	+5V	60.00A	40.00A	100mVp-p	4.75~5.25	± 1.0%	± 0.5%	± 1%	88%
CFM-351M120	+12V	29.20A	25.00A	120 mVp-p	11.4~12.6	± 1.0%	± 0.5%	± 1%	92%
CFM-351M240	+24V	14.60A	12.50A	150 mVp-p	22.8~25.2	± 1.0%	± 0.5%	± 1%	93%
CFM-351M480	+48V	7.30A	6.25A	150 mVp-p	45.6~50.4	± 1.0%	± 0.5%	± 1%	93%
<b>Stand-by Output Voltage</b>									
All	+5.0V	0.3A	0.3A	--		--	--	--	
<b>Fan Output Voltage</b>									
All	+12.0V	0.3A	0.3A	--		--	--	--	

Note: 1. RATED1: 10CFM Air Flow  
2. RATED2: Natural Convection (at 110 ~ 200 Vac, refer to derating curve)

# SPECIFICATIONS

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

## 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%/°C

## GENERAL SPECIFICATIONS:

Isolation ..... Input to output = 5656VDC  
 Operating Temperature ..... -20 ~ 70°C (see Derating)  
 Storage Temperature ..... -40~85°C  
 Humidity ..... 93% RH max. Non condensing  
 Switching Frequency ..... 50K~100kHz Typical  
 MTBF ..... MIL-HDBK-217F, GB, 25°C/115VAC ..... 1 00K hrs min.  
 Altitude ..... 2000m  
 Dimensions ..... 6.500x4.000x1.516 Inches (165.00x101.60x38.60mm)  
 Weight ..... 640g(1.42Pounds)

## SAFETY AND EMC:

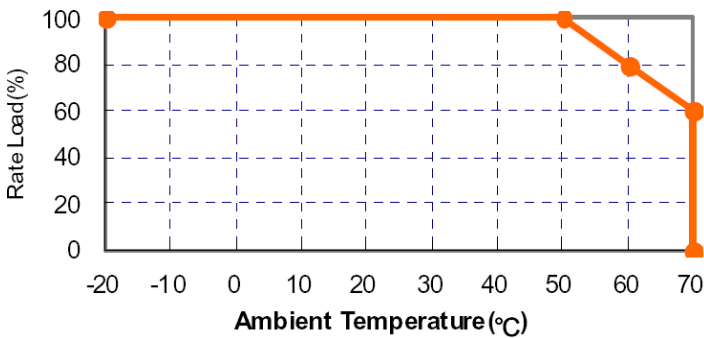
Emission and Immunity ..... EN55011 Class B, FCC Part 15 Class B  
 EN60601-1-2, EN61000-3-2 Class A, B, C, D, EN61000-3-3  
 Safety ..... IEC60601-1, EN60601-1, UL60601-1

## NOTE:

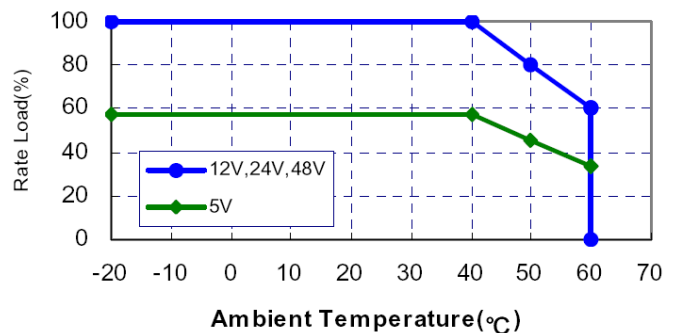
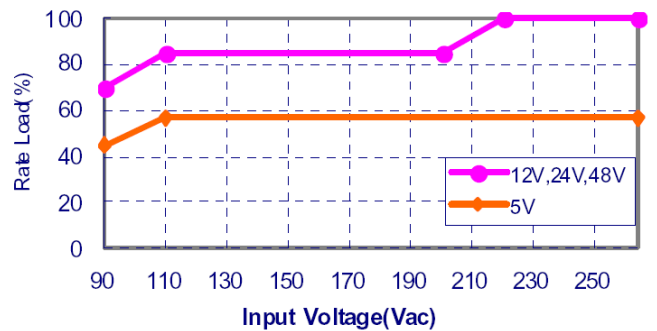
1. Add a 0.1uF ceramic capacitor and a 47uF E.L. capacitor to output for Ripple & Noise measuring @20MHz BW.
2. Voltage accuracy is set at 60% rated load and 25°C.Ta.
3. Line regulation is measured from High Line to Low Line with rated load.
4. Load regulation is measured at 60%±40% rated.
5. CN1: LONG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

# CFM-351M Series Derating Curve

350W With 10CFM Air Flow



350W With Natural Convection

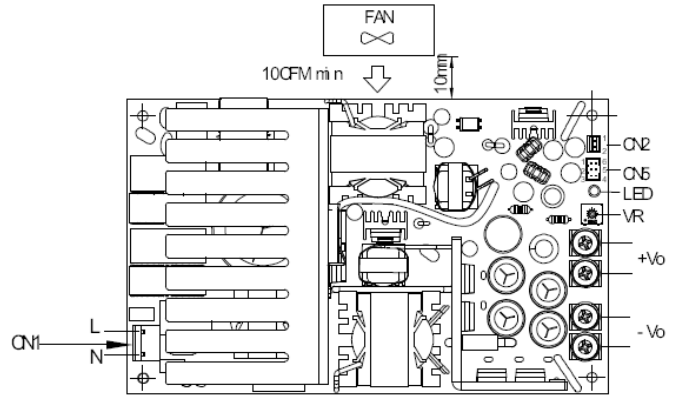
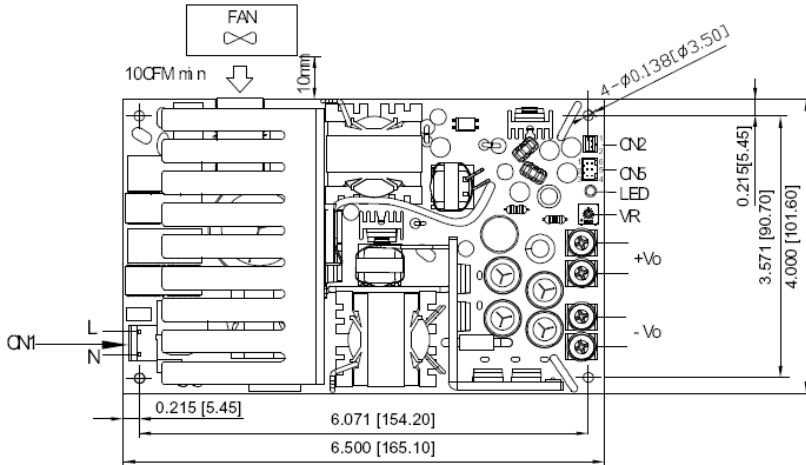


# CFM-351M Series

All Dimensions in Inches (mm)

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

Millimetres: X.X= ± 1.0, X.XX=± 0.25



FAN location for CFM351M050 only

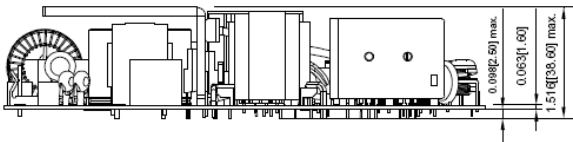
CN5:  
PIN CONNECTION

Pin	Function	Pin	Function
1	GND	4	-SENSE
2	+5VBS	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



Notice: All statements, technical information, and recommendations related to FABRIMEX's products are based on information believed to be reliable, but the accuracy or completeness thereof is not guaranteed. Before utilizing the product, the user should determine the suitability of the product for its intended use. Specifications can be changed any time without notice.

