

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



### Safety Approvals



### 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

### Electrical Characteristics:

MODEL	VOLTAGE OUTPUT	OUTPUT CURRENT (A)		RIPPLE & NOISE	VOLTAGE ADJ. RANGE	VOLTAGE ACCURACY	LINE REG	LOAD REG	EFFICIENCY (TYPICAL)
		RATED1	RATED2						
<b>Main Output Voltage</b>									
CFM351M050	+5V	60	40	100mVp-p	4.75~5.25	± 1.0%	± 0.5%	± 1%	89%
CFM351M120	+12V	29.2	25	120mVp-p	11.4~12.6	± 1.0%	± 0.5%	± 1%	92%
CFM351M240	+24V	14.6	12.5	150mVp-p	22.8~25.2	± 1.0%	± 0.5%	± 1%	93%
CFM351M480	+48V	7.3	6.25	150mVp-p	45.6~50.4	± 1.0%	± 0.5%	± 1%	93%
<b>Stand-by Output Voltage</b>									
All	+5.0V	0.3	0.3	-		-	-	-	
<b>Fan Output Voltage</b>									
All	+12.0V	0.3	0.3	-		-	-	-	

Note: 1. RATED1: 10CFM Air Flow

2. RATED2: Natural Convection (at 110 ~ 200 Vac, refer to derating curve)

## Specification

### 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:

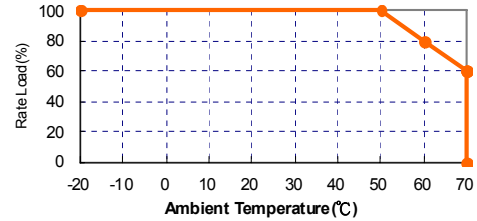
Isolation .....	Input to output = 5656VDC	
Operating Temperature .....	-20 ~ 70°C (see Derating Curve)	
Storage Temperature .....	-40~85°C	
Humidity .....	93% RH max. Non condensing	
Switching Frequency .....	60K~100kHz Typical	
MTBF .....	MIL-HDBK-217F, GB, 25°C/115VAC .....	100K hrs min.
Altitude .....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

### SAFETY AND EMC:

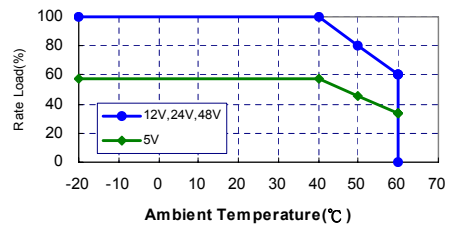
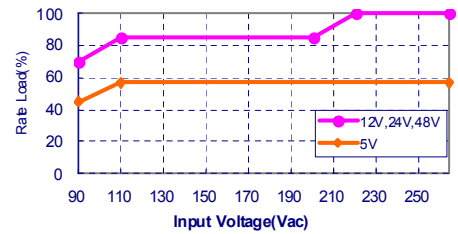
Emission and Immunity .....	EN55011 Class B, FCC Part 15 Class B EN60601-1-2, EN61000-3-2 Class A, B, C, D, EN61000-3-3
Safety .....	IEC60601-1, EN60601-1, UL60601-1

## CFM351M Series Derating Curve

### 350W With 10CFM Air Flow



### 350W With Natural Convection



### NOTES:

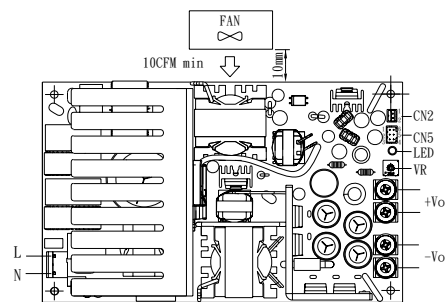
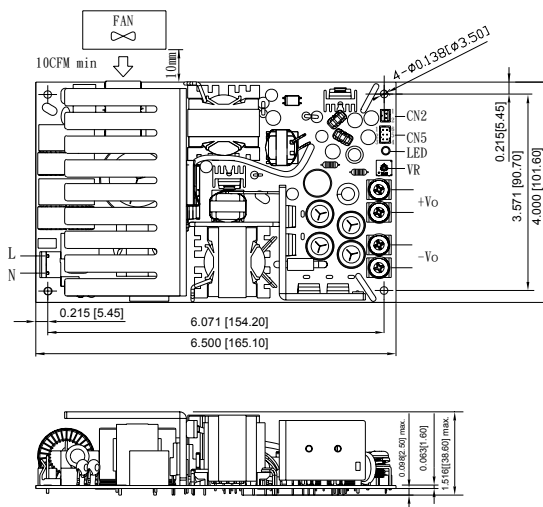
1. Add a 0.1uF ceramic capacitor and a 47uF E.L. capacitor to output for
2. Ripple & Noise measuring @20MHz BW.
3. Voltage accuracy is set at 60% rated load and 25°C.Ta.
4. Line regulation is measured from High Line to Low Line with rated load.
5. 4. Load regulation is measured at 60%±40% rated.

## Mechanical Specification

All Dimensions In Inches(mm)

### Tolerances

Inches: x.xxx= ±0.02, 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	+5VBS	5	ENABLE
3	+SENSE	6	GND

#### CN2: PIN CONNECTION

Pin	Function
1	FAN output+
2	FAN output-

Typical at 25°C, nominal line and 60% load, unless otherwise Specified

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