



# CFM05M SERIES

## 5 WATT MEDICA OPEN FRAME AC-DC MODULES



### Features

- \* Universal Input Range 85-264VAC
- \* Efficiency to 80%
- \* Meets EN60601-1 and EN55011 Class B
- \* Continuous Short Circuit Protection
- \* Low Leakage Current 100uA Max.
- \* PCB Mountable



MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT(A)		RIPPLE (mVp-p)	VOLTAGE ACCURACY	LINE REGULATION	LOAD REGULATION	%EFF. (Typ.)
		MIN.	MAX.					
CFM05S033-M	3.3V	0A	1.25A	50mV	±1%	±0.5%	±1%	70%
CFM05S050-M	5.0V	0A	1.0A	50mV	±1%	±0.5%	±1%	73%
CFM05S090-M	9.0V	0A	0.55A	90mV	±1%	±0.5%	±1%	76%
CFM05S120-M	12.0V	0A	0.42A	120mV	±1%	±0.5%	±1%	77%
CFM05S150-M	15.0V	0A	0.33A	150mV	±1%	±0.5%	±1%	78%
CFM05S180-M	18.0V	0A	0.28A	180mV	±1%	±0.5%	±1%	78%
CFM05S240-M	24.0V	0A	0.23A	240mV	±1%	±0.5%	±1%	80%

## Specifications

### INPUT SPECIFICATIONS:

Voltage ..... 85~264Vac  
 Frequency ..... 47 to 63Hz  
 Inrush Current ..... 40A max. @240Vac  
 Leakage Current ..... 100uA max.

### OUTPUT SPECIFICATIONS:

Holdup Time ..... 8mS typ. @115Vac  
 Short Circuit Protection ..... Continuous(Auto Recovery)  
 Over Voltage Protection ..... TVS Component to Clamp  
 Temperature Coefficient .....  $\pm 0.05\%/^{\circ}\text{C}$

### GENERAL SPECIFICATIONS:

Isolation ..... Input to output = 5,656VDC  
 Operating Temperature .....  $0^{\circ}\text{C} \sim 85^{\circ}\text{C}$  (see derating curve)  
 Storage Temperature .....  $-20 \sim 85^{\circ}\text{C}$   
 Humidity ..... 93% RH max. Non condensing  
 Cooling ..... Natural Convection  
 Switching Frequency ..... 60KHz Typical  
 MTBF ..... MIL-HDBK-217F, GB, at  $25^{\circ}\text{C}/115\text{VAC}$  ..... 200K hrs min.  
 Altitude ..... 2000m  
 Dimensions ..... 2.165x1.378x0.827inches (55.00x35.00x21.00mm)  
 Weight ..... 35g (0.08 Pounds)

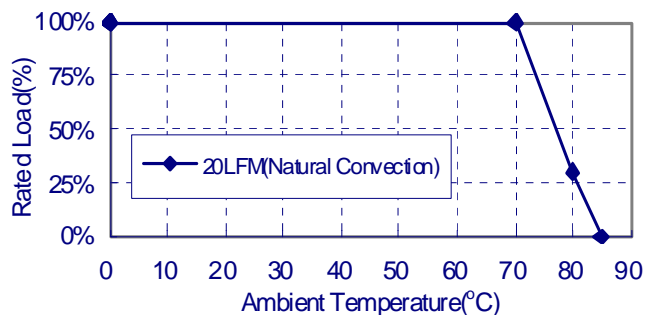
### CFM05M Series

All Dimensions are in inches(mm)

Tolerance: Inches: X.XXX $\pm$ 0.02

Millimeters: X.XX $\pm$ 0.5

## CFM05M Series Derating Curve

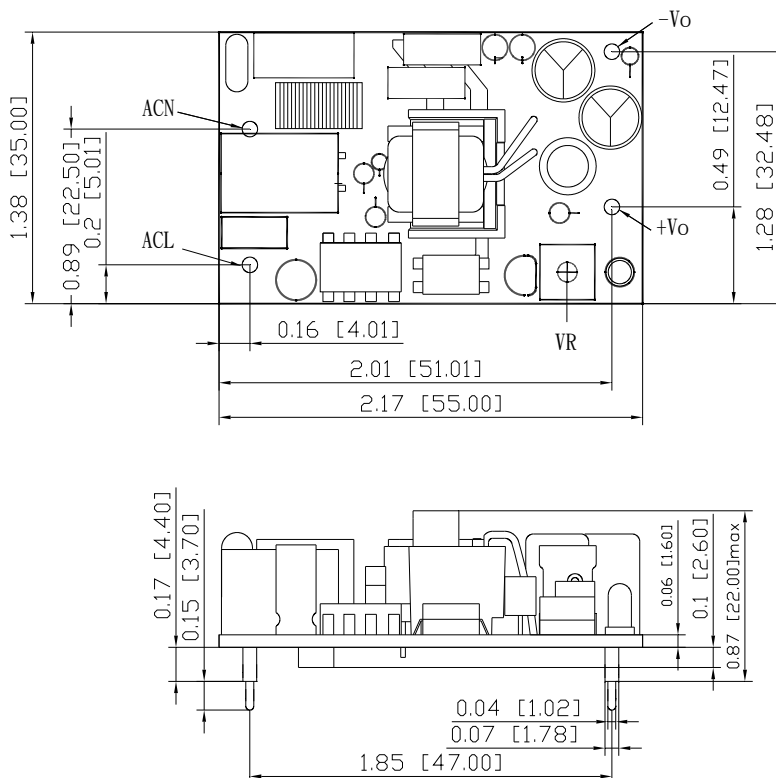


### SAFETY AND EMC:

Emission and Immunity ..... EN55011 Class B, EN60601-1-2  
 EN61000-3-2, EN61000-3-3  
 Safety ..... IEC60601-1, EN60601-1, UL60601-1

### NOTE:

1. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for Ripple & Noise measuring @20MHz BW.
2. Line regulation is measured from 100Vac to 240Vac with full load.
3. Load regulation is measured from 10% to 100% full load.



Typical at  $25^{\circ}\text{C}$ , nominal line and 75% load, unless otherwise Specified