# CFM05M SERIES

## 5 WATT MEDICA OPEN FRAME AC-DC MODULES

IEC 60601-1 EN 60601-1

E252331



## Featurs

* 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 are subject to change without notice.*

# Specifications

## INPUT SPECIFICATIONS:

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

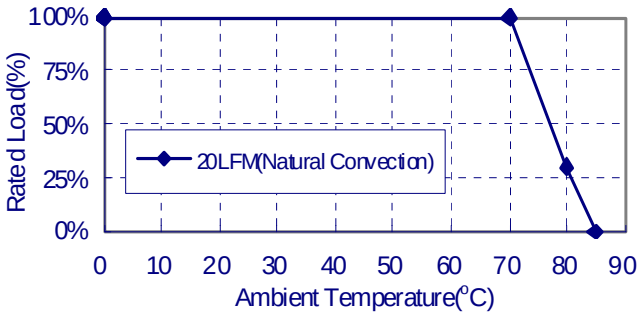
## OUTPUT SPECIFICATIONS:

Holdup Time ..... 8mS typ. @115Vac
Short Circuit Protection .....Continuous(Auto Recovery)
Over Voltage Protection ..... TVS Component to Clamp
Temperature Coefficient ..... ±0.05%/℃

## GENERAL SPECIFICATIONS:

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

# CFM05M Series Derating Curve




## SAFETY AND EMC:

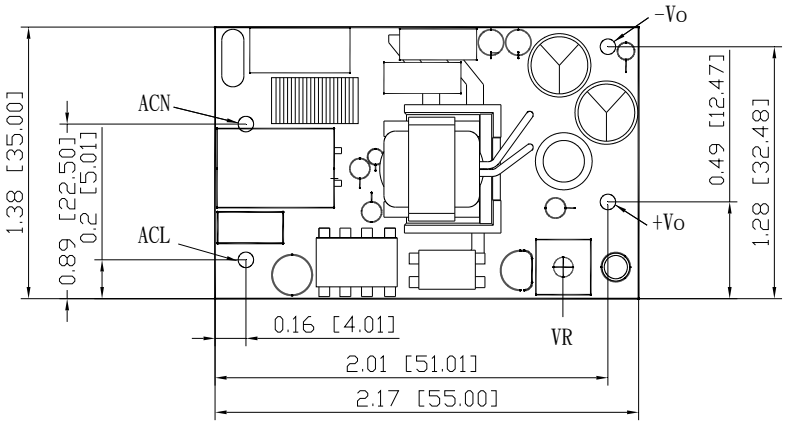
Emission and Immunity ..... EN55011 Class B, EN60601-1-2
EN61000-3-2, EN61000-3-3
Safety ..... IEC60601-1, EN60601-1, UL60601-1

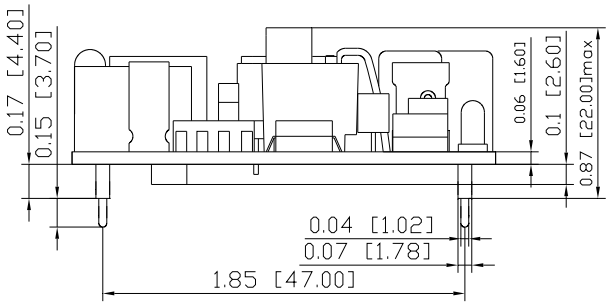
## NOTE:

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.

## *CFM05M Series*

All Dimensions are in inches(mm)
Tolerance:Inches:X.XXX±0.02
Millimeters:X.XX±0.5




*Typical at 25°C, nominal line and 75% load, unless otherwise Specified*

# Mouser Electronics

Authorized Distributor

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Cincon:

CFM05S033-M CFM05S050-M CFM05S090-M CFM05S120-M CFM05S150-M CFM05S180-M CFM05S240-M