



Single Output AC/DC Converter

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

Series CFM05M 5 Watt | AC-DC Converter



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 $\pm 0.05\%/^{\circ}\text{C}$

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)

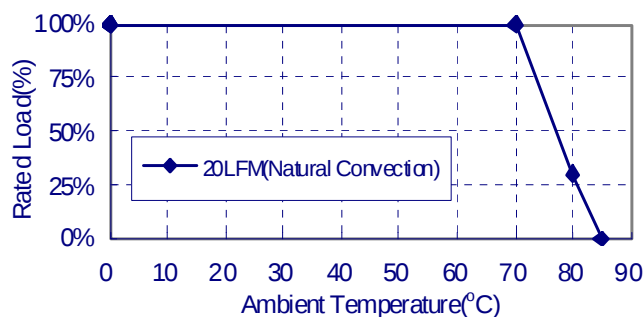
CFM05M Series

All Dimensions are in inches(mm)

Tolerance: Inches: X.XXX ± 0.02

Millimeters: X.XX ± 0.5

CFM05M Series Derating Curve



SAFETY AND EMC:

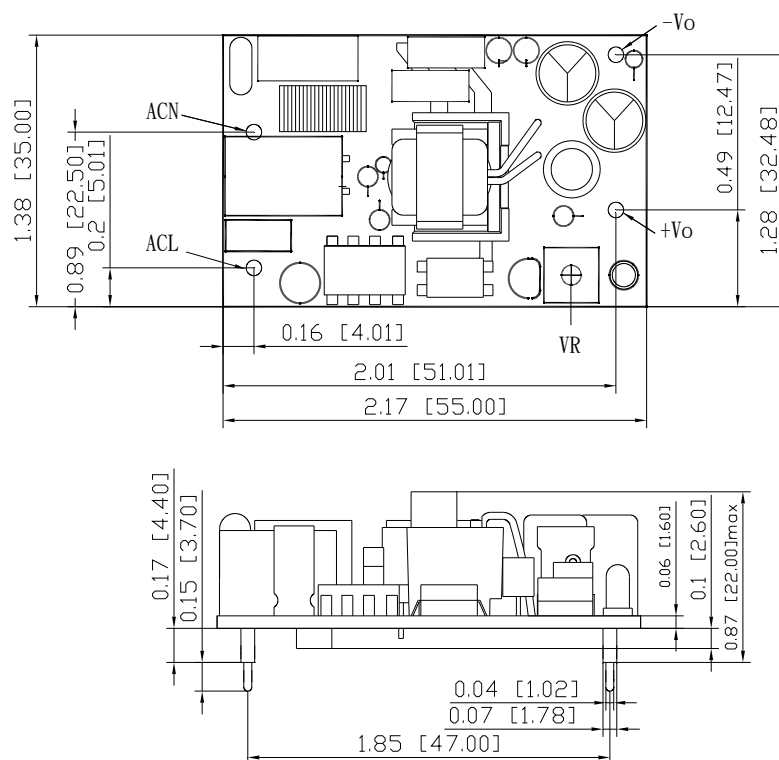
Emission and Immunity EN55011 Class B, EN60601-1-2

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°C , nominal line and 75% load, unless otherwise Specified