



**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 ..... ±0.05%/°C

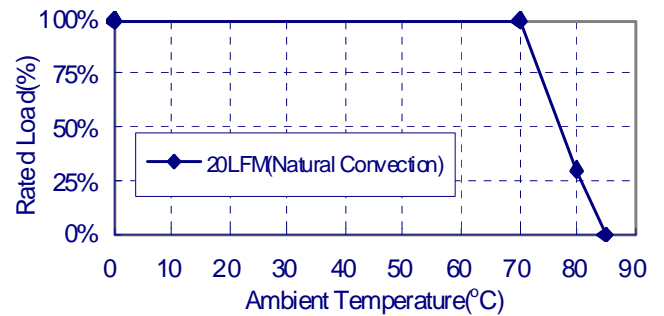
**GENERAL SPECIFICATIONS:**

Isolation ..... Input to output = 5,656VDC  
 Operating Temperature ..... 0°C ~ 85°C (see derating curve)  
 Storage Temperature ..... -20~85°C  
 Humidity ..... 93% RH max. Non condensing  
 Cooling ..... Natural Convection  
 Switching Frequency ..... 60KHz Typical  
 MTBF ..... MIL-HDBK-217F, GB, at 25°C/115VAC ..... 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**

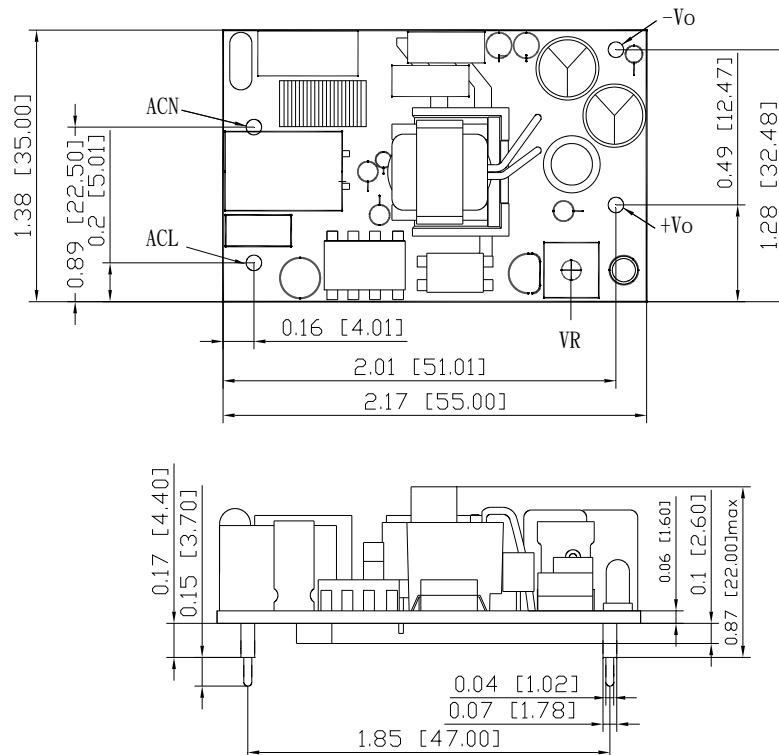


**SAFETY AND EMC:**

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