



CFM100M SERIES

100W MEDICAL&ITE OPEN FRAME AC-DC MODULES WITH PFC



Features

- * Universal Input Range 90 ~ 264V_{ac}
- * Medical Approved
- * 3"x 5" Compact Size
- * Less than 1 U high
- * Industry Standard Pin Out
- * Active PFC Meets EN61000-3-2
- * High Efficiency up to 92%
- * Meets CISPR/FCC Class B
- * Remote Voltage Sense
- * Over Voltage Protection
- * Continuous Short Circuit Protection
- * No Load Power Consumption<0.5W
- * Meets 2MOPP
- * Meets Class I



MODEL	OUTPUT VOLTAGE	MAX. LOAD	MIN. LOAD	RIPPLE & NOISE NOTE 1	VOLTAGE ADJ. RANGE	VOLTAGE ACCURACY NOTE 2	LINE REGULATION NOTE 3	LOAD REGULATION NOTE 4	% EFF. (Typ.) NOTE 5
CFM100M050	5 V	20 A	0 A	2%	4.75~5.25	±1%	±0.5%	±1%	83%
CFM100M075	7.5 V	13.4 A	0 A	2%	7.13~7.88	±1%	±0.5%	±1%	87%
CFM100M090	9 V	11.2 A	0 A	1%	8.55~9.45	±1%	±0.5%	±1%	89%
CFM100M120	12 V	8.4 A	0 A	1%	11.4~12.6	±1%	±0.5%	±1%	89%
CFM100M150	15 V	6.7 A	0 A	1%	14.25~15.75	±1%	±0.5%	±1%	90%
CFM100M180	18 V	5.6 A	0 A	1%	17.1~18.9	±1%	±0.5%	±1%	90%
CFM100M240	24 V	4.2 A	0 A	1%	22.8~25.2	±1%	±0.5%	±1%	91%
CFM100M280	28 V	3.6 A	0 A	1%	26.6~29.4	±1%	±0.5%	±1%	90%
CFM100M360	36 V	2.8 A	0 A	1%	34.2~37.8	±1%	±0.5%	±1%	91%
CFM100M480	48 V	2.1 A	0 A	1%	45.6~50.4	±1%	±0.5%	±1%	92%

Specifications are subject to change without notice.

Specifications

INPUT SPECIFICATIONS:

Voltage	90~264V _{ac} 120~370V _{dc}
Frequency	47 to 63Hz
Inrush Current	80A max. @240V _{ac}
Leakage Current	300uA max.

OUTPUT SPECIFICATIONS:

Hold-up Time	16ms typ.
Short Circuit Protection	Hiccup Mode (Auto Recovery)
Adjustment Range on Vout.....	±5%
Over Voltage Protection	Recycle AC Input to Restart
Temperature Coefficient	±0.05%/°C max.

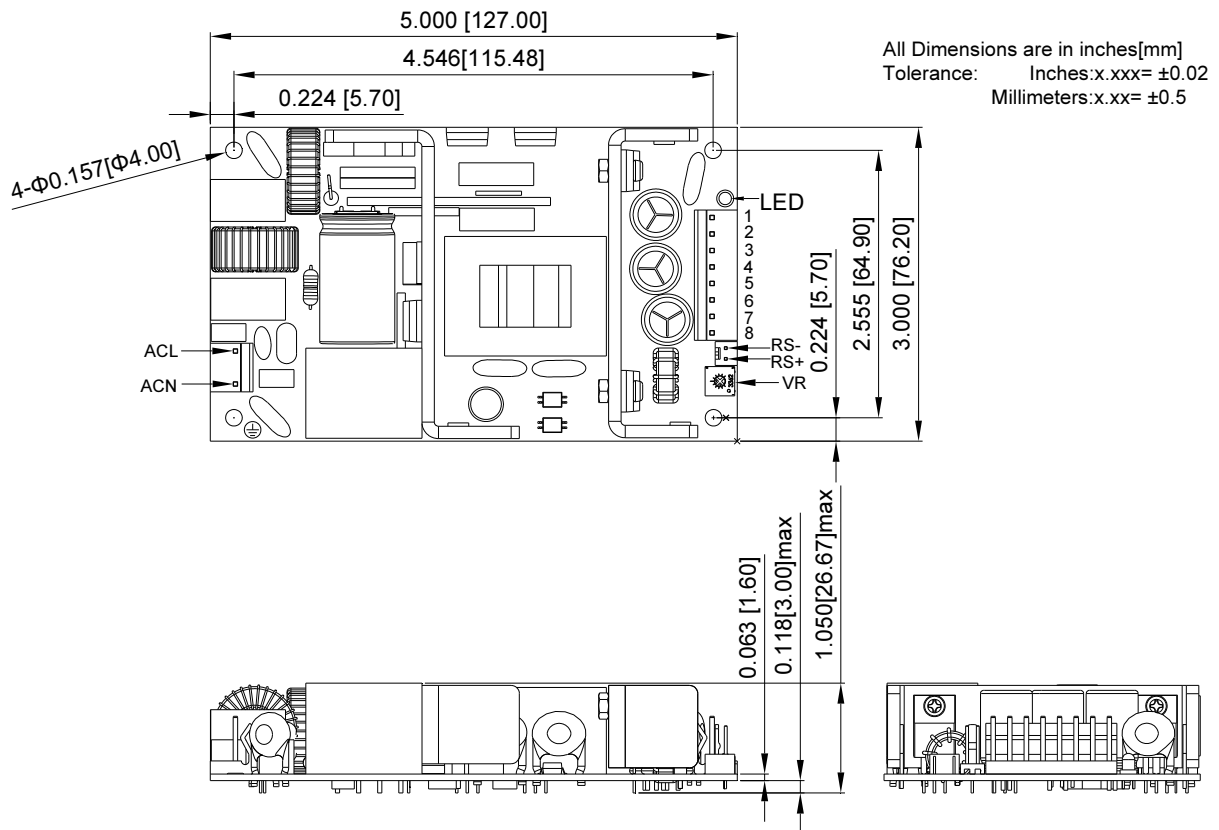
GENERAL SPECIFICATIONS:

Isolation	Input to Output = 5,656V _{dc}
Operating Temperature	-20°C~ 70°C (See Derating Curve)
Storage Temperature	-20 ~ 85°C
Humidity	93% RH max. Non Condensing
Cooling	Natural Convection
Switching Frequency	90kHz Typical
MTBF	MIL-HDBK-217F, GB, 25°C/115V _{ac} 150khrs typ.
Altitude	3000m
Dimensions	5.000x3.000x1.050 inches (127.00x76.20x26.67 mm)
Weight	270g (0.6Pounds)

SAFETY AND EMC:

Emission and Immunity	EN60601-1-2:2015 ed. 4.0, EN55011 Class B EN55032 Class B, EN55024, FCC Part15 Class B EN61000-6-1, EN61204-3, EN61000-3-2, 3
Safety	Class I, ANSI/AAMI ES60601-1:2005

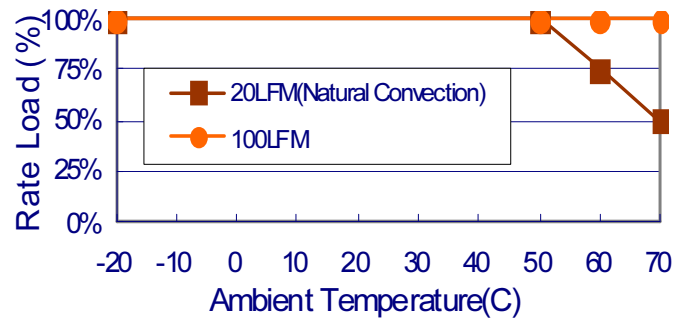
Mechanical Specification



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

CFM100M Series Derating Curve

CFM100M



NOTE:

1. CFM100M050: Add a 0.1uF ceramic capacitor and 220uF E.L. capacitor to output for Ripple & Noise measuring @20MHz BW. Other Model: Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for ripple&noise measuring @20MHz BW.
2. Voltage accuracy is set at 100% rated load and 25°C Ta.
3. Line regulation is measured from high line to low line with full load.
4. Load regulation is measured from Full to 10% load.
5. Typical efficiency at 230VAC and full load at 25°C.
6. Standard input and output connectors wafer with LONG CHU P3060 series and mate with MOLEX housing 09-50-1031 and 09-50-1081 or equivalent.
7. DC output pin 1, 2, 3, 4: Vout (-), DC output pin 5, 6, 7, 8: Vout (+).