

100W MEDICAL OPEN FRAME AC-DC MODULES WITH PFC



Features:

- Universal Input Range 90 ~ 264VAC
- Medical and ITE Safeties
- 3" x 5" Compact Size
- Less than 1 U high
- Industry Standard Pin Out
- Active PFC Meets EN61000-3-2 Class D
- High Efficiency up to 91%
- Meets CISPR/FCC Class B
- Remote Voltage Sense
- Over Voltage Protection
- Continuous Short Circuit Protection
- No load Power Consumption < 0.5W

Safety Approvals



Electrical Characteristics:

Model	Output Voltage	Max Load	Min Load	Ripple & Noise	Voltage Adj. Range	Voltage Accuracy	Line Reg	Load Reg	%EFF (Typ.)
CFM100M050	5V	20A	0A	2%	4.75~5.25	±1%	±0.5%	±1%	85%
CFM100M075	7.5V	13.4A	0A	2%	7.13~7.88	±1%	±0.5%	±1%	87%
CFM100M090	9V	11.2A	0A	1%	8.55~9.45	±1%	±0.5%	±1%	88%
CFM100M120	12V	8.4A	0A	1%	11.4~12.6	±1%	±0.5%	±1%	89%
CFM100M150	15V	6.7A	0A	1%	14.25~15.75	±1%	±0.5%	±1%	89%
CFM100M180	18V	5.6A	0A	1%	17.1~18.9	±1%	±0.5%	±1%	90%
CFM100M240	24V	4.2A	0A	1%	22.8~25.2	±1%	±0.5%	±1%	91%
CFM100M280	28V	3.6A	0A	1%	26.6~29.4	±1%	±0.5%	±1%	91%
CFM100M360	36V	2.8A	0A	1%	34.2~37.8	±1%	±0.5%	±1%	91%
CFM100M480	48V	2.1A	0A	1%	45.6~50.4	±1%	±0.5%	±1%	91%

Specification

INPUT SPECIFICATIONS:

Voltage 90~264Vac
 Frequency 47 to 63Hz
 Inrush Current 80A max. @240Vac
 Leakage Current 300uA max.

OUTPUT SPECIFICATIONS:

Holdup 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

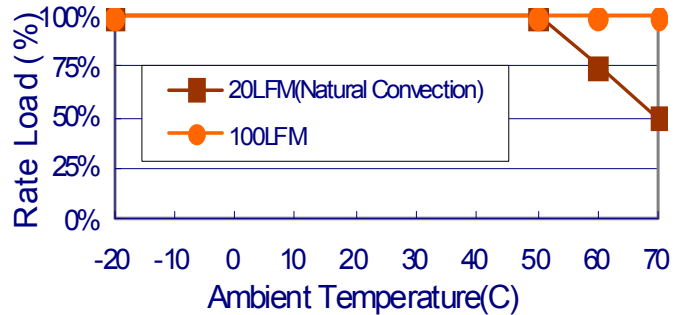
GENERAL SPECIFICATIONS:

Isolation Input to output = 5,656VDC
 Operating Temperature -20°C~70°C (see Derating Curve)
 Storage Temperature -20 °C ~ 85°C
 Humidity 93% RH max. Non condensing
 Cooling Natural Convection
 Switching Frequency 80~100KHz typ
 MTBF MIL-HDBK-217F, GB, 25°C/115VAC 200 hrs min
 Altitude 2000m
 Dimensions 5.000x3.000x1.050inches (127.00x76.20x26.67mm)
 Weight 270g (0.6Pounds)

SAFETY AND EMC:

Emission and Immunity EN55024, EN61000-6-1, EN61204-3
 EN60601-1-2, EN61000-3-2 Class A, B, C, D, EN61000-3-3
 EN55011 Class B, EN55022 Class B, FCC Part15 Class B
 Safety IEC60601-1, EN60601-1, UL60601-1
 IEC60950-1, EN60950-1, UL60950-1

CFM100M Series Derating Curve



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. Line regulation is measured from High Line to Low Line with full load.
3. Load regulation is measured from Full to 10% load.
4. Dimensions tolerance: +/-1 mm
5. Connectors:
 AC input: Molex 5227 or equivalent
 DC output: Molex 5273 or equivalent
6. DC output pin 1, 2, 3, 4: Vout (-), DC output pin 5, 6, 7, 8: Vout (+)

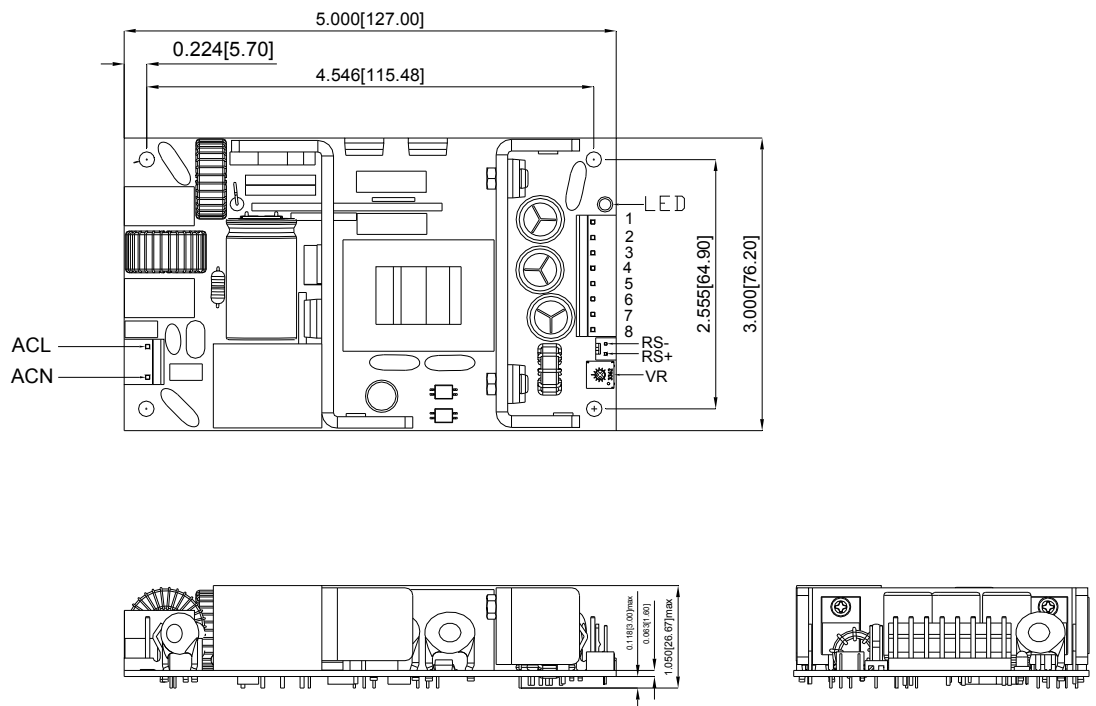
CFM100M

All Dimensions 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