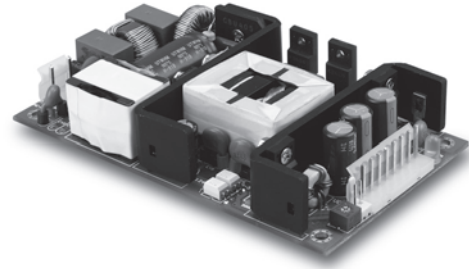


CFM100M

S E R I E S

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



Features

- Universal Input Range 90 ~ 264VAC
- Medical and ITE Safeties
- 3" x 5" Compact Size
- Less than 1U 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

MODEL	OUTPUT VOLTAGE	MAX. LOAD	MIN. LOAD	RIPPLE & NOISE	VOLTAGE ACCURACY	VOLTAGE ADJ. Range	LINE REGULATION	LOAD REGULATION	(%) EFF ⁽¹⁾ (Typ.)
CFM100M050	5V	20A	0A	2%	±1%	4.75~5.25	±0.5%	±1%	85%
CFM100M075	7.5V	13.4A	0A	2%	±1%	7.13~7.88	±0.5%	±1%	87%
CFM100M090	9V	11.2A	0A	1%	±1%	8.55~9.45	±0.5%	±1%	88%
CFM100M120	12V	8.4A	0A	1%	±1%	11.4~12.6	±0.5%	±1%	89%
CFM100M150	15V	6.7A	0A	1%	±1%	14.25~15.75	±0.5%	±1%	89%
CFM100M180	18V	5.6A	0A	1%	±1%	17.1~18.9	±0.5%	±1%	90%
CFM100M240	24V	4.2A	0A	1%	±1%	22.8~25.2	±0.5%	±1%	91%
CFM100M280	28V	3.6A	0A	1%	±1%	26.6~29.4	±0.5%	±1%	91%
CFM100M360	36V	2.8A	0A	1%	±1%	34.2~37.8	±0.5%	±1%	91%
CFM100M480	48V	2.1A	0A	1%	±1%	45.6~50.4	±0.5%	±1%	91%

Specifications

INPUT SPECIFICATIONS:

Voltage90 ~ 264Vac
 Frequency47 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

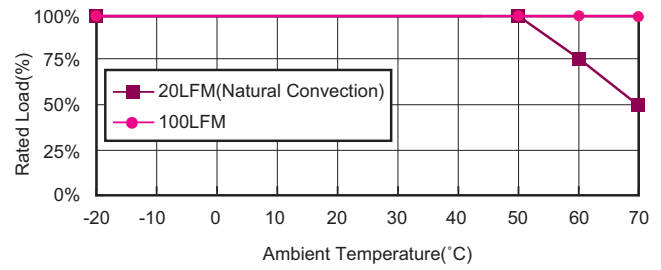
GENERAL SPECIFICATIONS:

Isolation Input to output = 5,656VDC
 Operating Temperature-20°C ~ 70°C (see Derating Curve)
 Storage Temperature -20~85°C
 Humidity 93% RH max. Non condensing
 Cooling Natural Convection
 Switching Frequency90KHz Typical
 MTBFMIL-HDBK-217F, GB, 25°C/115VAC..... 200K 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



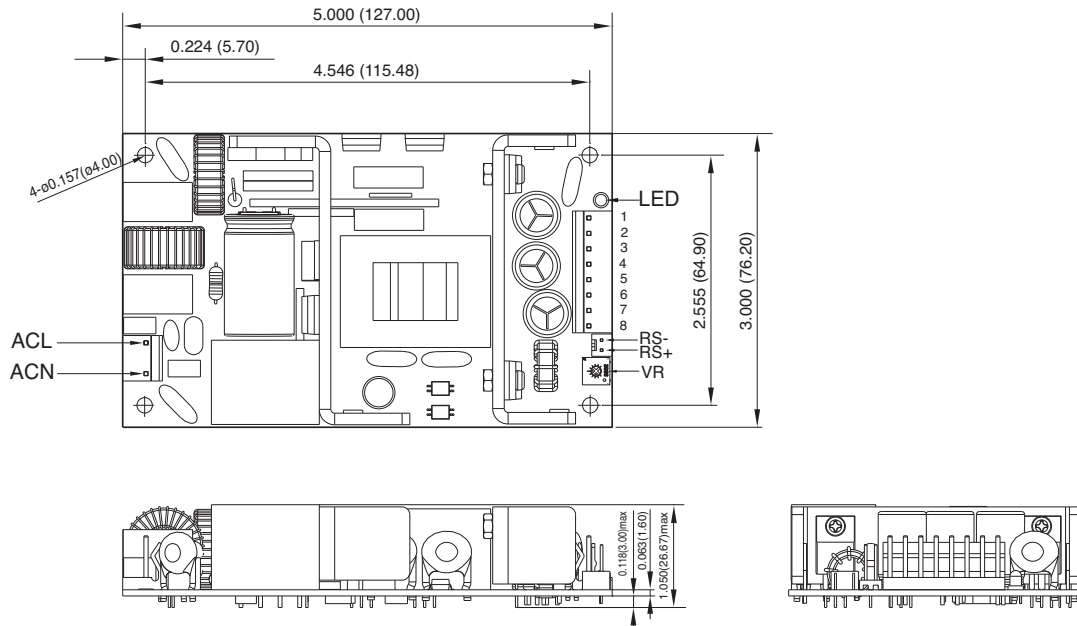
NOTE:

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

CFM100M

CFM100M Series

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