



CFM150M SERIES

150W 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 1 U high : 1.05"
- * Industry Standard Pin Out
- * Active PFC Meets EN61000-3-2
- * High Efficiency up to 93%
- * Meets CISPR/FCC Class B
- * Remote Voltage Sense
- * Over Voltage Protection
- * Continuous Short Circuit Protection
- * No load Power Consumption<0.5W
- * Meets 2MOPP

| MODEL | OUTPUT VOLTAGE | MAX. LOAD | MIN. LOAD | RIPPLE & NOISE NOTE 1 | VOLTAGE ACCURACY NOTE 2 | LINE REGULATION NOTE 3 | LOAD REGULATION NOTE 4 | % EFF. (Typ.) NOTE 5 |
|------------|----------------|-----------|-----------|--------------------------|----------------------------|---------------------------|---------------------------|----------------------------|
| CFM150M120 | 12 V | 12.5 A | 0A | 1% | ±1% | ±0.5% | ±1% | 90% |
| CFM150M240 | 24 V | 6.25 A | 0A | 1% | ±1% | ±0.5% | ±1% | 92% |
| CFM150M360 | 36 V | 4.17 A | 0A | 1% | ±1% | ±0.5% | ±1% | 92% |
| CFM150M480 | 48 V | 3.13 A | 0A | 1% | ±1% | ±0.5% | ±1% | 93% |

Specifications

INPUT SPECIFICATIONS:

Voltage 90~264Vac
 Frequency 47 to 63Hz
 Inrush Current 110A max. @240Vac
 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

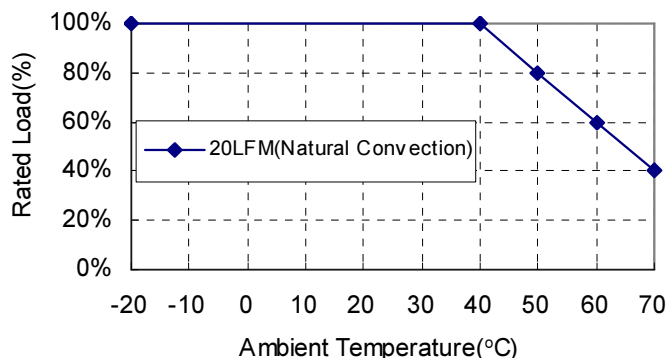
GENERAL SPECIFICATIONS:

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 Frequency 90KHz Typical.
 MTBF MIL-HDBK-217F, GB, 25°C/115VAC 100Khrs min.
 Altitude 3000m
 Dimensions 5.000x3.000x1.050inches (127.00x76.20x26.67mm)
 Weight 270g (0.6Pounds)

SAFETY AND EMC:

Emission and Immunity (Ed. 4.0) EN55011, EN55032 Class B
 FCC CFR 47 Part 15, EN61000-3-2, 3, IEC61000-4-2, 3, 4, 5, 6, 8, 11
 Safety (Ed. 3.1) IEC60601-1:2005+A1:2012
 IEC60950-1:2005+A1:2009+A2:2013, EN60601-1:2006+A11:2011+A1+A12
 EN60950-1:2006+A11+A1+A12:2011+A2:2013, UL ANSI/AAMI ES60601-1:2005, UL60950-1, 2nd Edition

CFM150M Series Derating Curve

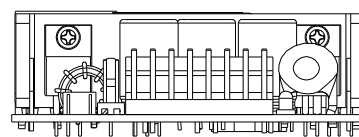
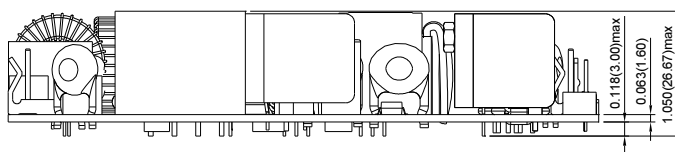
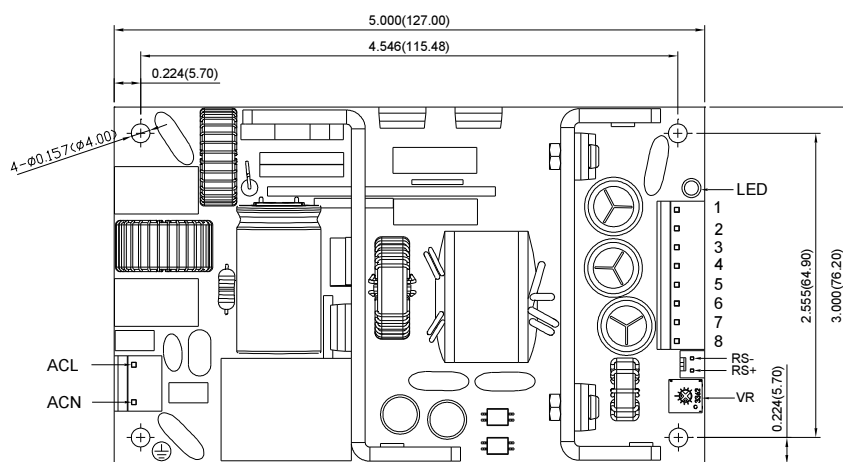


NOTE:

1. Add a 0.1uF ceramic capacitor and 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 (+).

CFM150M Series

All Dimensions are in inches[mm]
 Tolerances : Inches : x.xxx=±0.02
 Millimeters : x.xx=±0.5



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

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