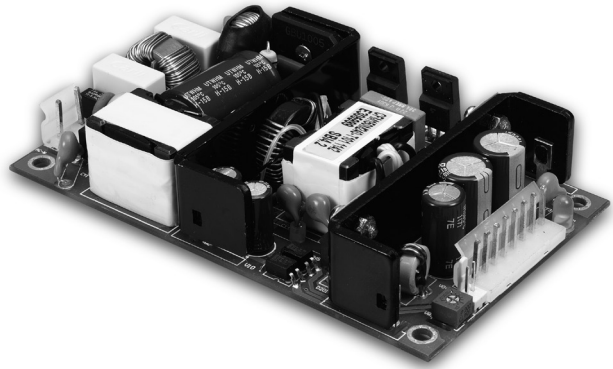


CFM150M

S E R I E S

150W MEDICAL AND ITE OPEN FRAME AC-DC MODULES WITH PFC



Features

- Universal Input Range 90~264VAC
- Medical and ITE Safeties
- 3"x5" 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 2 MOPP

| MODEL | OUTPUT VOLTAGE | OUTPUT CURRENT | RIPPLE & NOISE NOTE1 | VOLTAGE ACCURACY NOTE2 | LINE REGULATION NOTE 3 | LOAD REGULATION NOTE 4 | % EFF. (Typ.) NOTE 5 |
|------------|----------------|----------------|----------------------|------------------------|------------------------|------------------------|----------------------|
| CFM150M120 | 12 V | 12.5 A | 1% | ±1% | ±0.5% | ±1% | 90% |
| CFM150M240 | 24 V | 6.25 A | 1% | ±1% | ±0.5% | ±1% | 92% |
| CFM150M360 | 36 V | 4.17 A | 1% | ±1% | ±0.5% | ±1% | 92% |
| CFM150M480 | 48 V | 3.13 A | 1% | ±1% | ±0.5% | ±1% | 93% |

Specifications

INPUT SPECIFICATIONS:

Voltage 90~264Vac
 Frequency 47 to 63Hz
 Inrush Current 110A max. @240Vac
 Touch current..... 100uA max. @264 Vac
 Earth leakage current..... 300uA max. @264 Vac

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

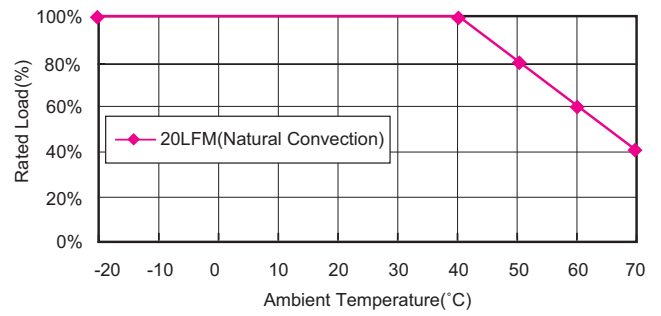
GENERAL SPECIFICATIONS:

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.
 MTBF MIL-HDBK-217F, GB, 25°C/115VAC 150K hrs min.
 Altitude 3000m
 Dimensions 5.000x3.000x1.050 inches (127.00x76.20x26.67 mm)
 Weight 270g (0.6Pounds)

SAFETY AND EMC:

Emission and Immunity EN55011 Class B, FCC Part 15 Class B
 EN60601-1-2, EN61000-3-2, EN61000-3-3
 Safety ... IEC60601-1:2005, EN60601-1:2006, ANSI/AAMI ES60601-1:2005
 IEC60950-1, EN60950-1, UL60950-1

CFM150M Series Derating Curve



NOTE:

1. CFM150M: Add a 0.1µF ceramic capacitor and 10µF 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 5195 series or equivalent.
7. DC output pin 1, 2, 3, 4: Vout (-), DC output pin 5, 6, 7, 8: Vout (+).

CFM150M Series

All Dimensions In Inches(mm)
 Tolerance Inches: x.xxx= ±0.02
 Millimeters: x.xx= ±0.5

