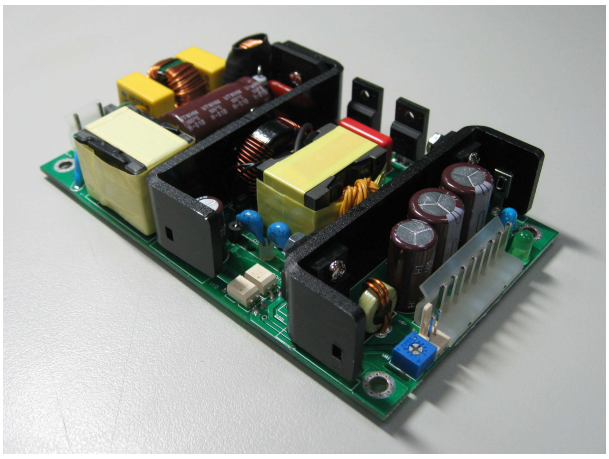
CFM150M SERIES

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 NOTE2	LINE REGULATION NOTE3	LOAD REGULATION NOTE4	% 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%/℃

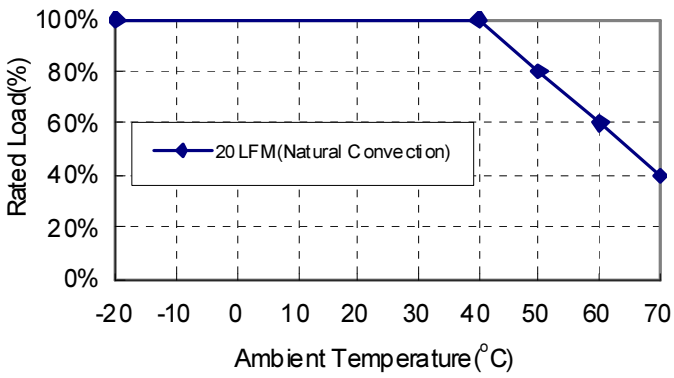
GENERAL SPECIFICATIONS:

Isolation ..... Input to output = 5,656VDC
Operating Temperature ..... -20℃~ 70℃ (see Derating Curve)
Storage Temperature ..... -20 ~ 85℃
Humidity ..... 93% RH max. Non condensing
Cooling ..... Natural Convection
Switching Frequency ..... 90KHz Typical.
MTBF ..... MIL-HDBK-217F, GB, 25℃/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 Editon

CFM150M Series Derating Curve

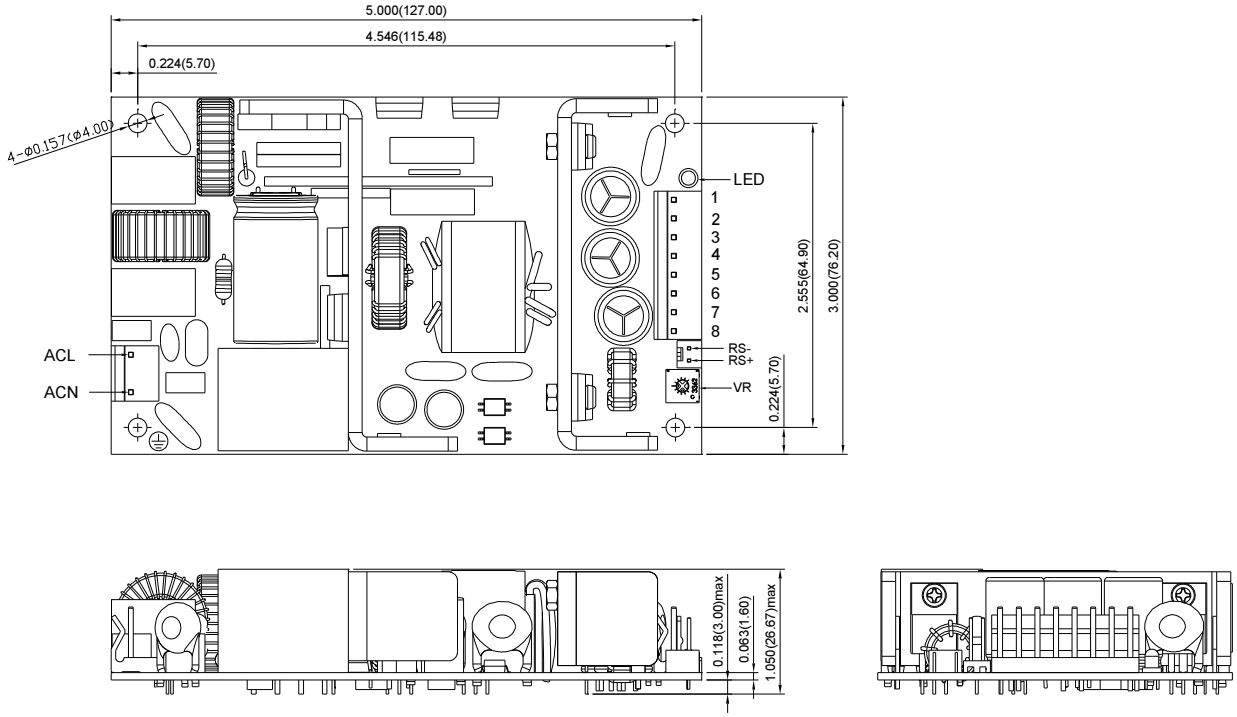


NOTE:

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℃ 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℃.
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