



CFM60M SERIES

60W MEDICAL OPEN FRAME AC-DC MODULES



FEATURES

- * Universal Input Range 90~264VAC
- * Medical and ITE Approved
- * Efficiency to 90%
- * Continuous Short Circuit Protection
- * Meets EN55011 and EN55022 Class B
- * Meets 2MOPP
- * No load Power Consumption<0.5W
- * 2"x 4" Size



MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE NOTE 2	VOLTAGE ACCURACY NOTE 1	VOLTAGE ADJ. RANGE	LINE REGULATION NOTE 3	LOAD REGULATION NOTE 4	% EFF (Typ.) NOTE5
CFM60M050	5 V	8 A	1%	±1%	4.75~5.25	±0.5%	±1%	82%
CFM60M120	12 V	5 A	1%	±1%	11.4~12.6	±0.5%	±1%	87%
CFM60M150	15 V	4 A	1%	±1%	14.25~15.75	±0.5%	±1%	88%
CFM60M240	24 V	2.5 A	1%	±1%	22.8~25.2	±0.5%	±1%	89%
CFM60M480	48 V	1.25 A	1%	±1%	45.6~50.4	±0.5%	±1%	90%

授权代理商: 西安浩南电子科技有限公司 TEL:029-88231631 FAX:029-88231651
 网址: www.haonpower.com 邮箱: info@haonpower.com

Specifications are subject to change without notice.

Specifications

INPUT SPECIFICATIONS:

Voltage 90~264Vac
 Frequency 47 to 63Hz
 Inrush Current Cold Start@25 °C 75A max. @240Vac
 Input Current 100Vac/1.6A max., 240Vac/0.8Amax.
 Leakage Current 100uA max.

OUTPUT SPECIFICATIONS:

Hold-up Time 16ms typ. @115Vac
 Short Circuit Protection Hiccup Mode (Auto Recover)
 Over Voltage Protection TVS Component to Clamp
 Temperature Coefficient ±0.05%/°C

GENERAL SPECIFICATIONS:

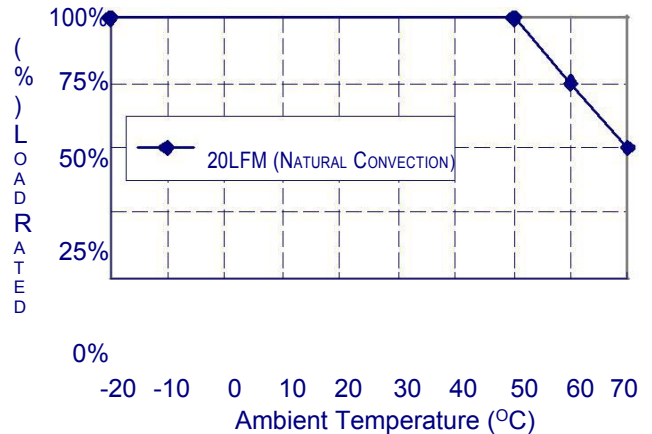
Isolation Input to output = 4000VAC (5,656VDC)
 Operating Temperature -20 ~ 70 °C (see Derating Curve)
 Storage Temperature -20~85°C
 Humidity 93% RH max. Non-Condensing
 Cooling Natural Convection
 Switching Frequency 65KHz Typical
 MTBF MIL-HDBK-217F, GB, 25°C/115VAC 200Khrs min.
 Altitude 3000m
 Dimensions 4.000x2.000x1.100inches (101.6x50.8x27.94mm)
 Weight 125g

SAFETY AND EMC:

Emission and Immunity EN55011, EN55022 Class B, EN55024
 FCC CFR 47 Part 15, 18 EN61204-3, EN61000-6-1, EN61000-6-3
 EN60601-1-2, EN61000-3-2, EN61000-3-3
 Safety IEC60601-1:2005, EN60601-1:2006 UL
 ANSI/AAMI ES60601-1:2005, IEC60950-1, EN60950-1, UL60950-1

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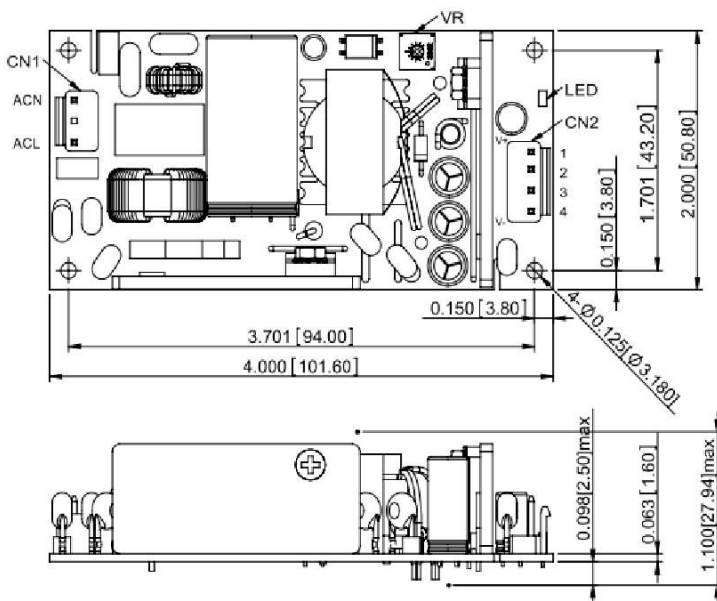
CFM60M Series Derating Curve



NOTE:

- Voltage accuracy is set at full load and 25°C Ta.
- 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 100Vac to 240Vac with full load.
- Load regulation is measured from 10% to 100% full load.
- Typical Efficiency at 230 VAC and Full Load at 25°C
- Standard input and output connectors (CN1 and CN2) wafer with TAIWAN KING PIN TERMINAL PVHI series and mate with JST housing VHR series and JST SVH-21/41T-P1.1 series crimp terminal or Equivalent.
- Optional Input and output connectors (CN1 and CN2) wafer with LONG CHU P3060 series and mate with MOLEX housing 5195 series and MOLEX 5194 series crimp terminal or equivalent.

All Dimensions in Inches[mm]
 Tolerance Inches:x.xxx±0.02
 Millimeters:x.xx±0.5



Input Connector CN1	
Pin 1	Line
Pin 2	Not Fitted
Pin 3	Neutral

Output Connector CN2	
Pin 1	+ Vout
Pin 2	+ Vout
Pin 3	- Vout
Pin 4	- Vout

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