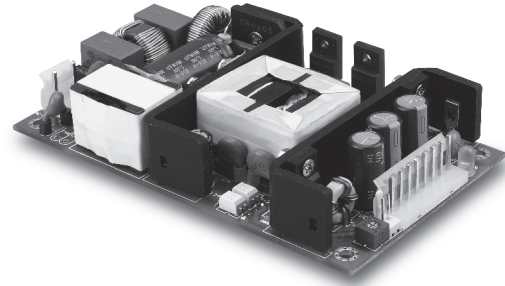


CFM100M

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 Approved
- 3"x5" 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
- Meets 2 MOPP

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE NOTE 1	VOLTAGE ACCURACY NOTE 2	VOLTAGE ADJ. Range	LINE REGULATION NOTE 3	LOAD REGULATION NOTE 4	(%) EFF. (Typ.) NOTE 5
CFM100M050	5 V	20 A	2%	±1%	4.75~5.25	±0.5%	±1%	83%
CFM100M075	7.5 V	13.4 A	2%	±1%	7.13~7.88	±0.5%	±1%	87%
CFM100M090	9 V	11.2 A	1%	±1%	8.55~9.45	±0.5%	±1%	89%
CFM100M120	12 V	8.4 A	1%	±1%	11.4~12.6	±0.5%	±1%	89%
CFM100M150	15 V	6.7 A	1%	±1%	14.25~15.75	±0.5%	±1%	90%
CFM100M180	18 V	5.6 A	1%	±1%	17.1~18.9	±0.5%	±1%	90%
CFM100M240	24 V	4.2 A	1%	±1%	22.8~25.2	±0.5%	±1%	91%
CFM100M280	28 V	3.6 A	1%	±1%	26.6~29.4	±0.5%	±1%	90%
CFM100M360	36 V	2.8 A	1%	±1%	34.2~37.8	±0.5%	±1%	91%
CFM100M480	48 V	2.1 A	1%	±1%	45.6~50.4	±0.5%	±1%	92%

Specifications

INPUT SPECIFICATIONS:

Voltage 90~264Vac
 Frequency 47 to 63Hz
 Inrush Current..... 80A 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

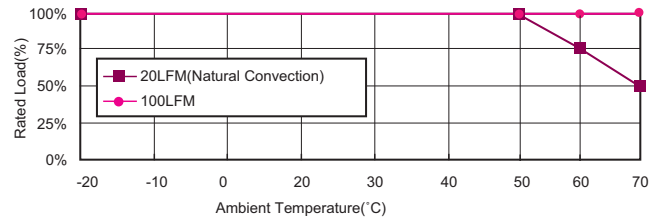
GENERAL SPECIFICATIONS:

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 Frequency 90KHz Typical
 MTBFMIL-HDBK-217F, GB, 25°C/115VAC..... 140K hrs min.
 Altitude 3000m
 Dimensions 5.000x3.000x1.050 inches (127.00x76.20x26.67 mm)
 Weight270g (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 IEC6060H:2005, EN60601-1:2006
 ANSI/AAMI ES6060-1:2005
 IEC60950-1, EN60950-1, UL60950-1

CFM100M Series Derating Curve



NOTE:

- CFM100M050: Add a 0.1µF ceramic capacitor and 220µF E.L. capacitor to output for Ripple & Noise measuring @20MHz BW. Other Model: Add a 0.1µF ceramic capacitor and a 10µF E.L. capacitor to output for Ripple & Noise measuring @20MHz BW.
- Voltage accuracy is set at full load and 25°C.Ta.
- Line regulation is measured from High Line to Low Line with full load.
- Load regulation is measured from Full to 10% load.
- Typical efficiency at 230 VAC and full load at 25°C.
- Standard input and output connectors wafer with LONG CHU P3060 series and mate with MOLEX housing 5195 series or equivalent.
- DC output pin 1, 2, 3, 4: Vout (-), DC output pin 5, 6, 7, 8: Vout (+)

CFM100M Series

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

