



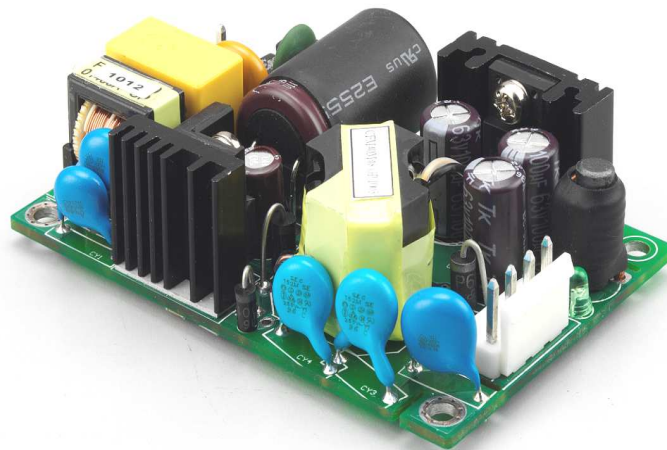
CFM40M SERIES

40W MEDICAL AND ITE OPEN FRAME AC-DC MODULES



Features

- * Universal Input Range 90~264VAC
- * Efficiency to 88% Typical
- * Continuous Short Circuit Protection
- * No Load Power Consumption<0.3W
- * 2"x 3" Size
- * Meets 2 MOPP
- * Medical and ITE Approved
- * Meets IEC/EN60335-1
- * Meets EN55011 and EN55032 Class B



MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE NOTE 2	VOLTAGE ACCURACY NOTE 1	LINE REGULATION NOTE 3	LOAD REGULATION NOTE 4	% EFF (Typ.) NOTE 5
CFM40M033	3.3 V	6 A	50 mV	±1%	±0.5%	±1%	76%
CFM40M050	5 V	6 A	1%	±1%	±0.5%	±1%	80%
CFM40M090	9 V	4.45 A	1%	±1%	±0.5%	±1%	84%
CFM40M120	12 V	3.34 A	1%	±1%	±0.5%	±1%	86%
CFM40M150	15 V	2.67 A	1%	±1%	±0.5%	±1%	87%
CFM40M240	24 V	1.67 A	1%	±1%	±0.5%	±1%	88%
CFM40M300	30 V	1.33 A	1%	±1%	±0.5%	±1%	88%
CFM40M360	36 V	1.11 A	1%	±1%	±0.5%	±1%	88%
CFM40M480	48 V	0.834 A	1%	±1%	±0.5%	±1%	88%

Specifications are subject to change without notice.

Specifications

INPUT SPECIFICATIONS:

Voltage	90~264Vac 120~370Vdc
Frequency	47 to 63Hz
Inrush Current	Cold start @25°C 60A max. @240Vac
Input Current	100Vac/1A max., 240Vac/0.55A max.
Leakage Current	100uA max.

OUTPUT SPECIFICATIONS:

Hold-up Time	10ms 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 min.
Operating Temperature	-20°C ~ 70°C (see Derating Curve)
Storage Temperature	-40°C~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	3.000x2.000x0.909 Inches (76.20x50.80x23.10 mm) CFM40XXX-P: 3.000x2.000x0.948 Inches (76.20x50.80x25.00 mm) CFM40XXX-C: 3.200x2.441x1.260 Inches (81.28x62.00x32.00 mm)
Weight	CFM40MXXX, CFM40MXXX-P: 90g, CFM40MXXX-C: 176g

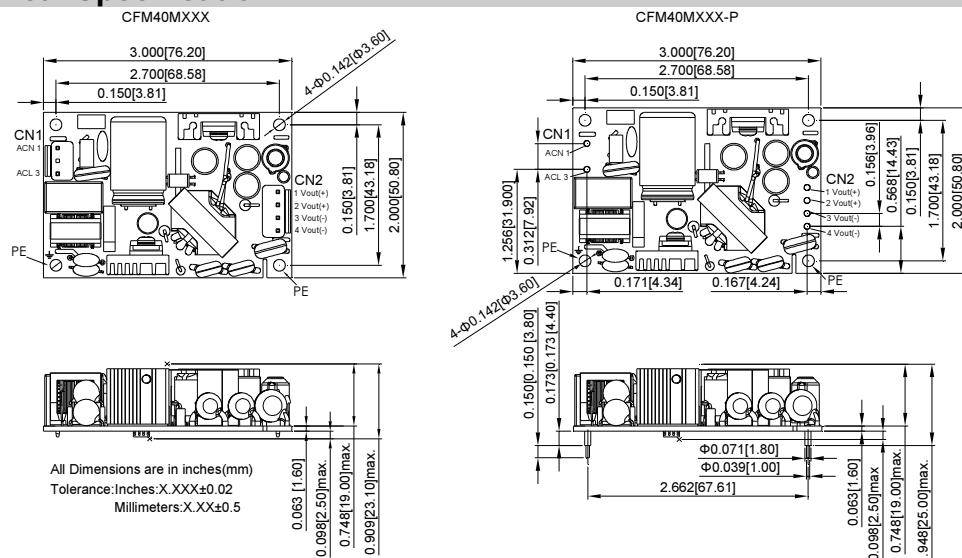
SAFETY AND EMC:

Emission and Immunity (Ed. 4.0)	EN55011, EN55032, EN55032 Class B FCC CFR 47 Part 15,18, EN61204-3, EN61000-6-1, EN610006-3 EN60601-1-2, EN61000-3-2, EN61000-3-3
Safety (Ed. 3.1)	Class I, IEC60601-1:2005+A1:2012, EN60601-1:2006/A1:2013 UL ANSI/AAMI ES60601-1:2005, IEC60950-1, EN60950-1, UL60950-1

NOTE:

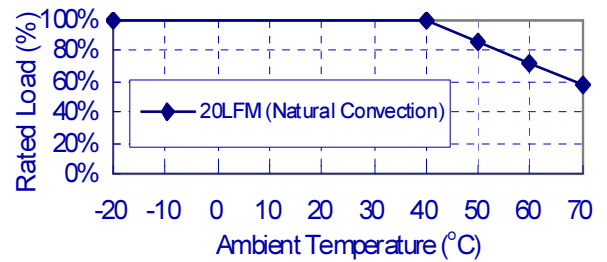
1. Voltage accuracy is set at full load.
2. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for ripple&noise measurement @20MHz BW.
3. Line regulation is measured from high line to low line with full load.
4. Load regulation is measured from 10% to 100% full load.
5. Typical efficiency at 230VAC and full load 25°C.
6. Standard input and output connectors (CN1 and CN2) wafer with TAIWAN KING PIN TERMINAL PVHI series and mate with JST housing VHR series or equivalent.

Mechanical Specification

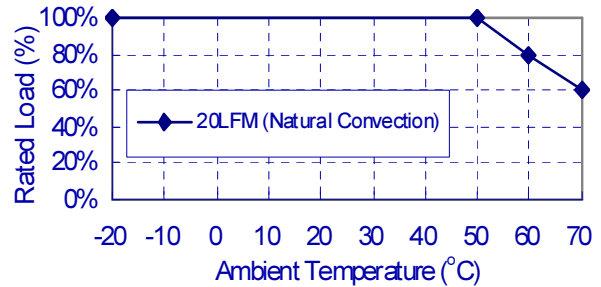


CFM40M Series Derating Curve

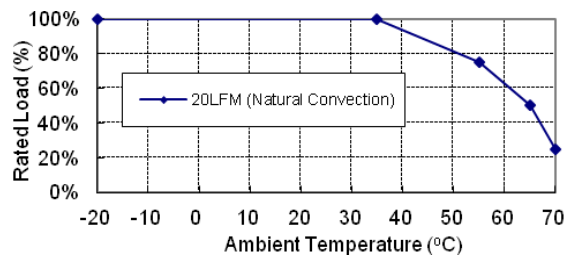
Open Frame version: CFM40MXXX CFM40M050



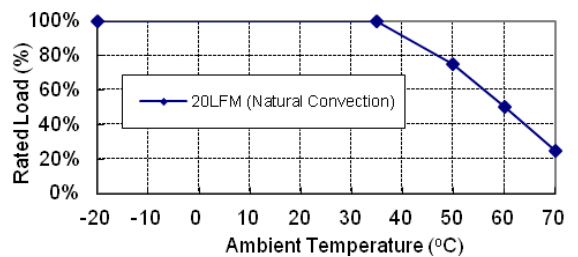
CFM40M033、090、120、150、240、300、360、480



Covered version: CFM40MXXX-C CFM40M050-C

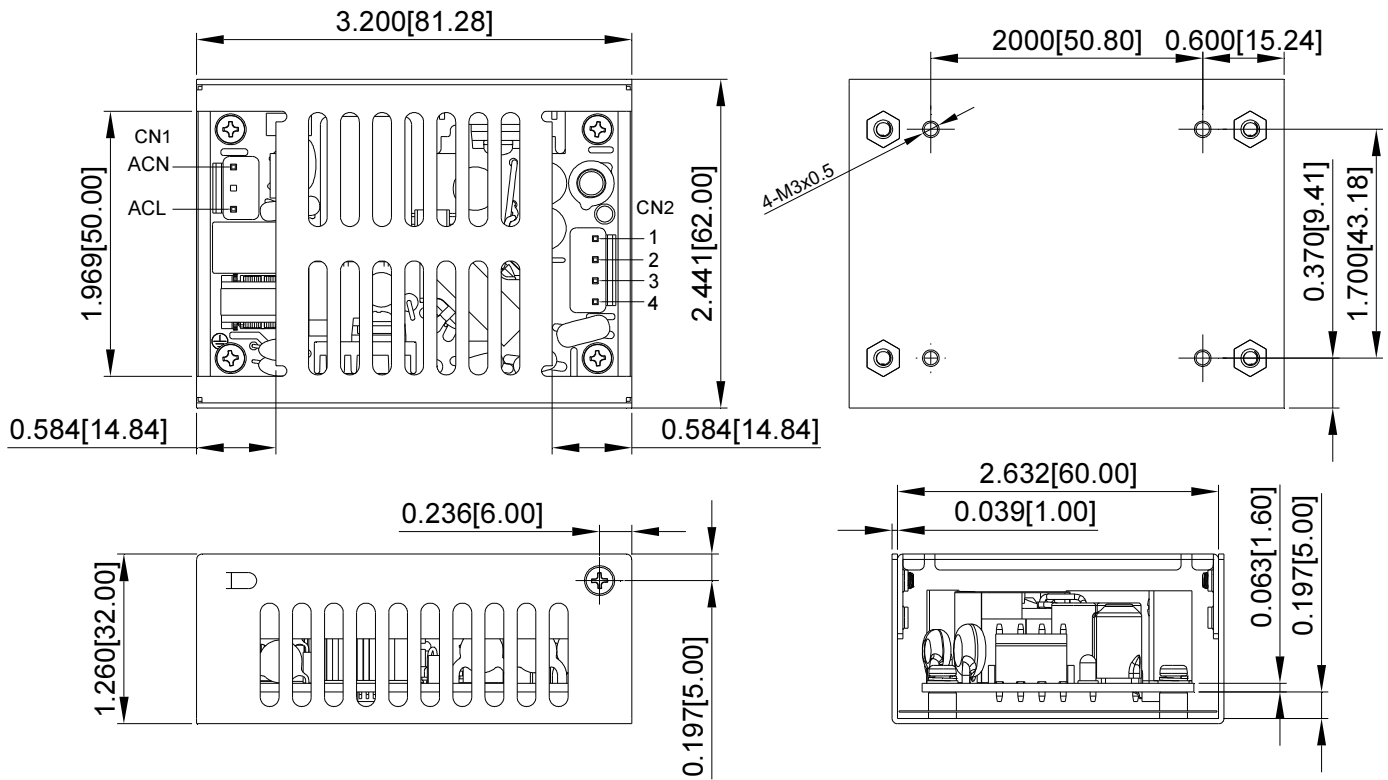


CFM40M033-C、090-C、120-C、150-C、240-C、300-C、360-C、480-C



Mechanical Specification

CFM40MXXX-C



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