



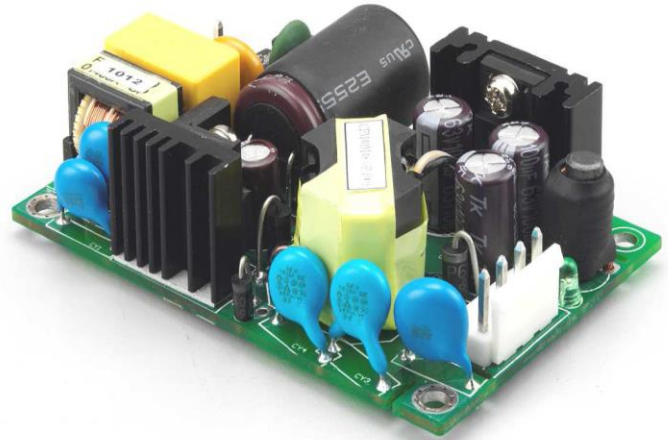
E-Star Power Development Co., Ltd. (E-STAR)
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 22069, Taiwan (R.O.C.)
 Phone : 886-2-2957 5580 Fax : 886-2-2957 7473

40W Open Frame type Medical power supply > CFM40M



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.



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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

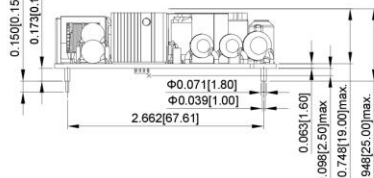
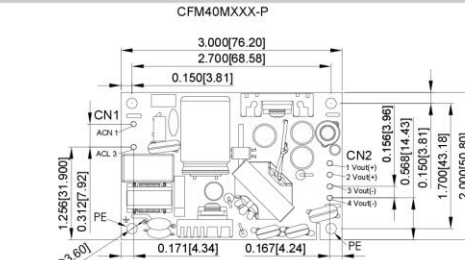
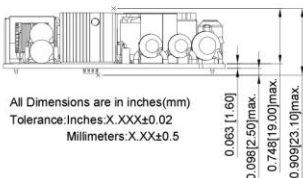
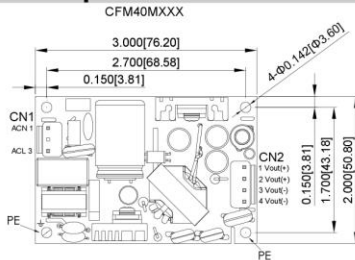
SAFETY AND EMC:

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:

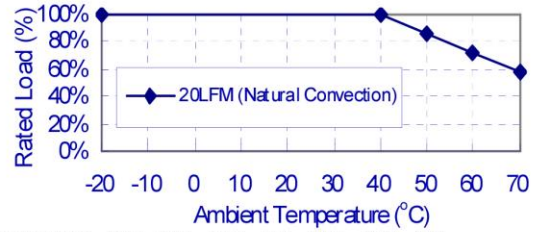
1. Voltage accuracy is set at full load.
2. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for ripple&noise measurement @20MHz BW.
3. Line regulation is measured from high line to low line with full load.
4. Load regulation is measured from 10% to 100% full load.
5. Typical efficiency 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

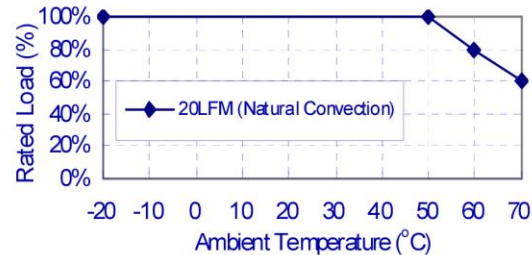


CFM40M Series Derating Curve

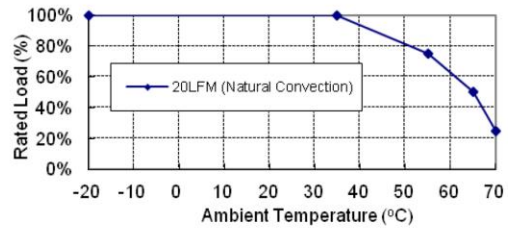
**Open Frame version: CFM40MXXX
CFM40M050**



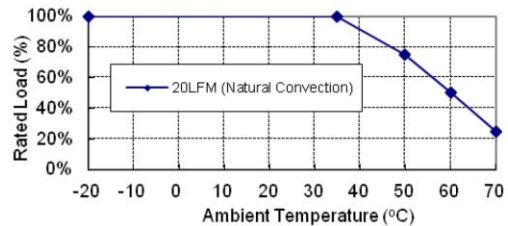
CFM40M033、090、120、150、240、300、360、480



**Covered version: CFM40MXXX-C
CFM40M050-C**



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



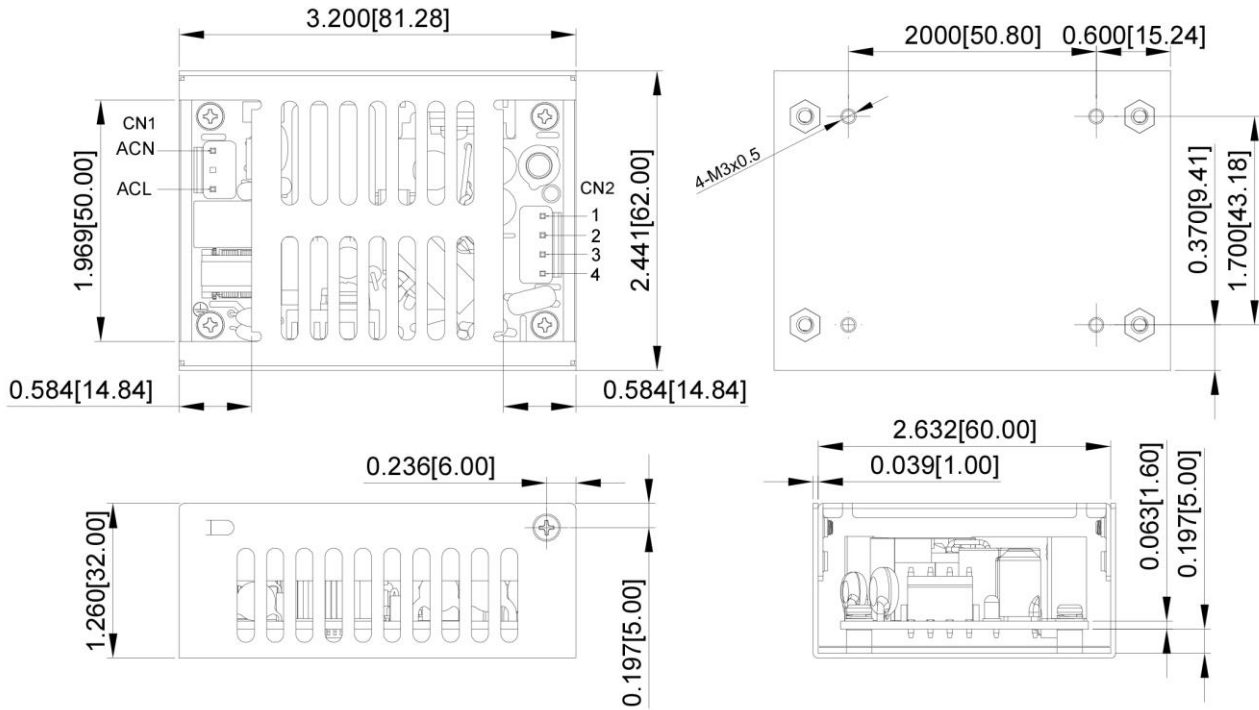


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Mechanical Specification

CFM40MXXX-C



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