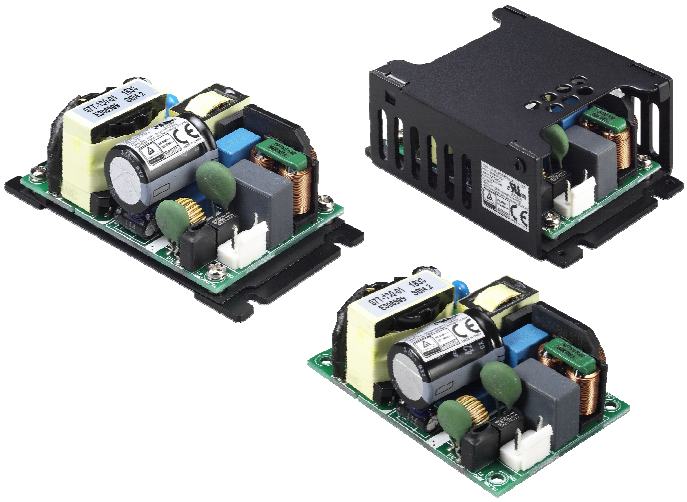
CFM130M SERIES

130 WATT MEDICAL AC-DC POWER SUPPLY WITH PFC

Features



* Universal Input 80~264Vac
* 2”x 3” Open Frame Compact Size
* 100W with Natural Convection
* 130W with Fan-Cooled
* No Load Input Power Consumption<150mW
* Active PFC Function
* High Efficiency up to 94%
* Continuous Short Circuit Protection
* Meets 2 MOPP IEC/EN60335-1
* EMI Safety Meets Class Ⅰ & Class Ⅱ
* Operating Altitude 5000m

Ordering information

CFM130MXXX- **X**

Blank: WAFER

B: Base Cooling

C: with Cover

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT		RIPPLE& NOISE NOTE 2	VOLTAGEA CCURACY NOTE 1	LINE REGULATION NOTE 3	LOAD REGULATION NOTE 4	%EFF. (typ.) NOTE 5
		Natural Convection	Fan Cooled NOTE 7					
CFM130M120	12V	8.34A	10.8A	1%	±2%	±0.5%	±1%	93%
CFM130M240	24V	4.2A	5.4A	1%	±2%	±0.5%	±1%	93%
CFM130M360	36V	2.8A	3.6A	1%	±2%	±0.5%	±1%	94%
CFM130M480	48V	2.1A	2.7A	1%	±2%	±0.5%	±1%	94%

Specifications are subject to change without notice.

Specifications *Specifications*

INPUT SPECIFICATIONS:

Voltage ..... 80~264Vac
Frequency ..... 47 to 63Hz
Inrush Current ..... Cold start @25℃100A max. @240Vac
Input Current ..... 100Vac/1.5A max., 240Vac/0.8Amax.
Leakage Current ..... 100uA max.

OUTPUT SPECIFICATIONS:

Holdup Time ..... 20ms min. @115Vac
Short Circuit Protection ..... Hiccup Mode (Auto Recover)
Over Voltage Protection ..... Auto Recover
Temperature Coefficient ..... ±0.05%/℃ max.

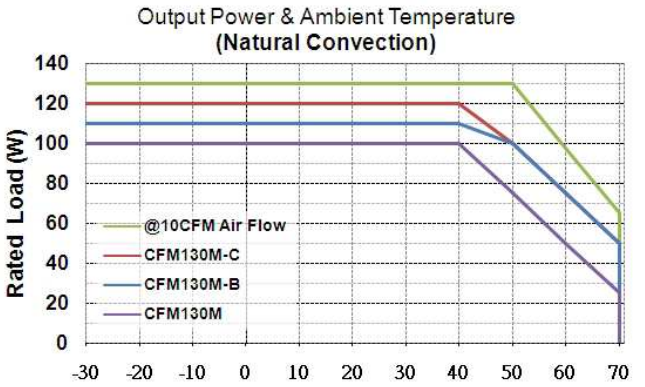
GENERAL SPECIFICATIONS:

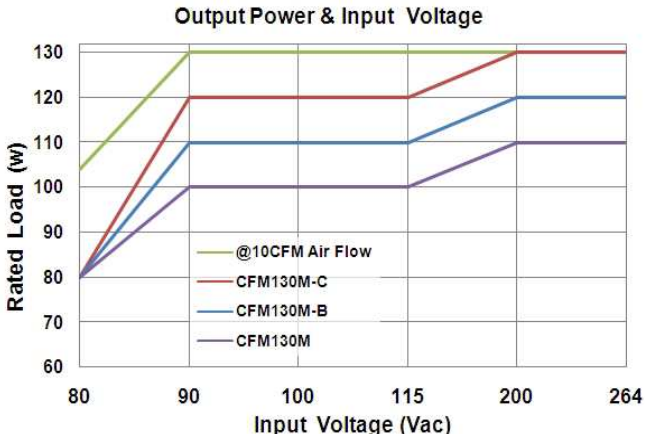
Isolation ..... Input to output = 4000VAC
Operating Temperature ..... -30 ~ 70℃ (See Derating Curve)
Storage Temperature ..... -40 ~ 85℃
Humidity ..... 93% RH max. Non condensing
Cooling ..... Natural Convection@100W, 10CFM Air Flow@130W
Switching Frequency .....105 KHz Typical
MTBF ..... MIL-HDBK-217F, GB, 25℃/115VAC ..... 400 Khrs min.
Altitude 5000m
Dimensions ..... 3.000x2.000x1.20 inches (76.2x50.8x30.5mm)
-B ..... 3.598x2.000x1.299 inches (91.4x50.8x33.0mm)
-C ..... 3.598x2.520x1.358 inches (91.4x64.0x34.5mm)
Weight ..... 135g, 170g(-B), 218g(-C)

SAFETY AND EMC:

Emission and Immunity (Ed. 4.0) ..... EN55011 Class B, IEC61000-3-2
IEC61000-4-2, 3, 4, 5, 6, 8, 11, IEC61000-3-3, FCC Part 18 Class B(note 7)
Safety (Ed. 3.1) ..... Class I, Class II, IEC60601-1, EN60601-1
UL ANSI/AAMI ES60601-1

CFM130M Series Derating Curve





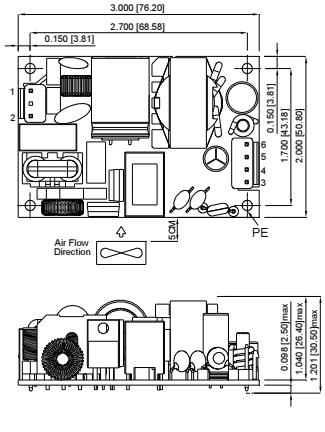
NOTE:

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 measuring @20MHz BW.
3. Line regulation is measured from 100Vac to 240Vac with full load.
4. Load regulation is measured from 10% to 100% full load.
5. Typical efficiency at 230 VAC and full load at 25°C.
6. Standard input and output connectors (CN1 and CN2) wafer with TAIWAN KING PIN TERMINAL PVHI series and mate with JST housing XH series or equivalent.
7. Requires 10CFM.

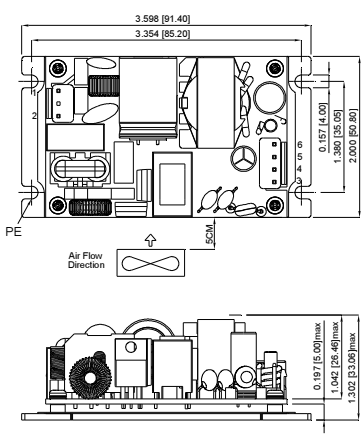
Mechanical Specification

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

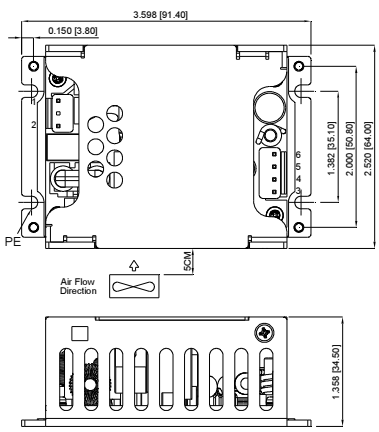
CFM130M



CFM130M-B



CFM130M-C



PIN CONNECTION	
Pin	Function
1	ACL
2	ACN
3	-Vout
4	-Vout
5	+Vout
6	+Vout

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