



# 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 Specifications

### INPUT SPECIFICATIONS:

Voltage ..... 80~264Vac  
 Frequency ..... 47 to 63Hz  
 Inrush Current ..... Cold start @25°C 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%/°C max.

### GENERAL SPECIFICATIONS:

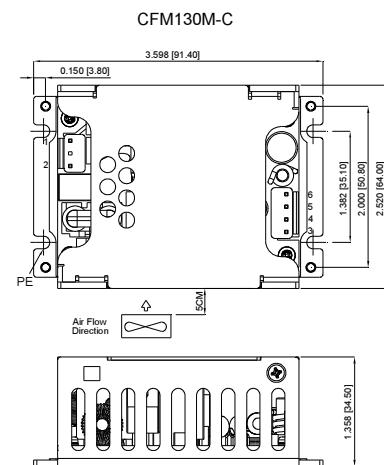
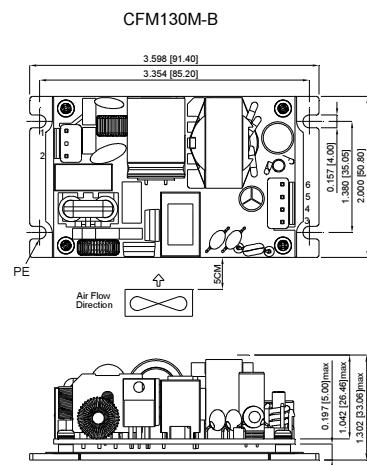
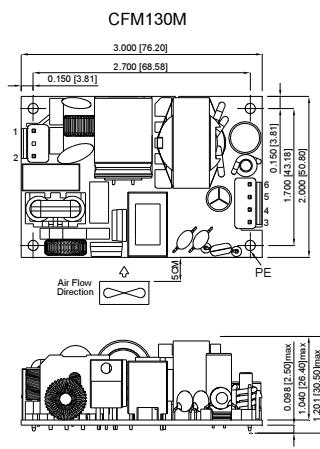
Isolation ..... Input to output = 4000VAC  
 Operating Temperature ..... -30 ~ 70°C (See Derating Curve)  
 Storage Temperature ..... -40 ~ 85°C  
 Humidity ..... 93% RH max. Non condensing  
 Cooling ..... Natural Convection@100W, 10CFM Air Flow@130W  
 Switching Frequency ..... 105 KHz Typical  
 MTBF ..... MIL-HDBK-217F, GB, 25°C/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

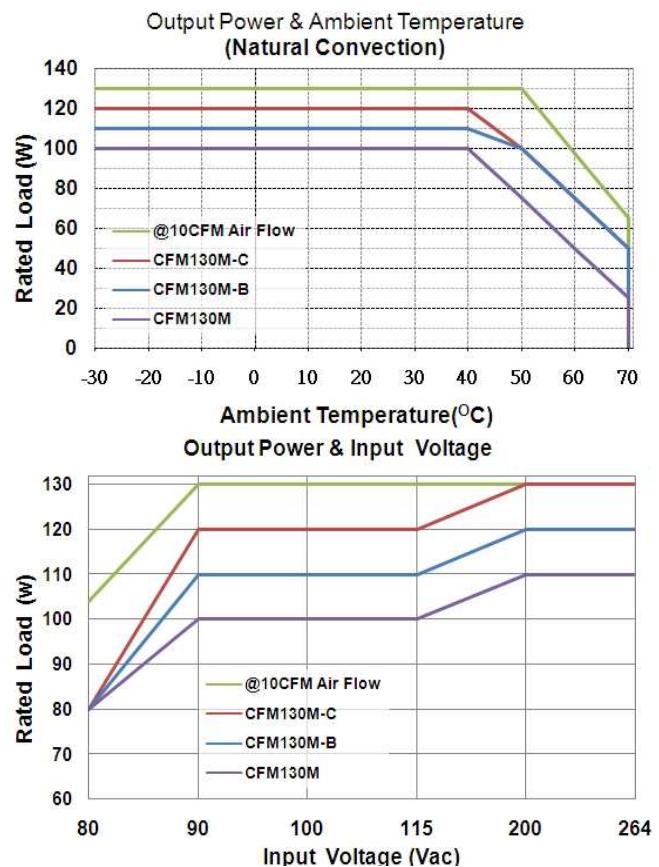
## Mechanical Specification

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



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

## 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.

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