



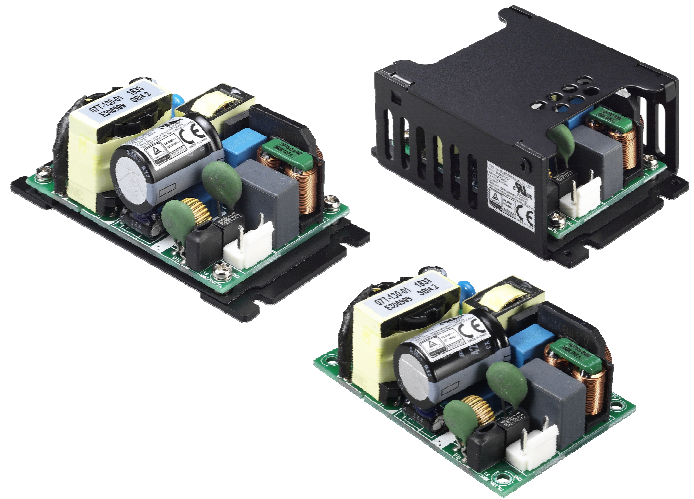
# CFM130M SERIES

## 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	VOLTAGE ACCURACY 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.

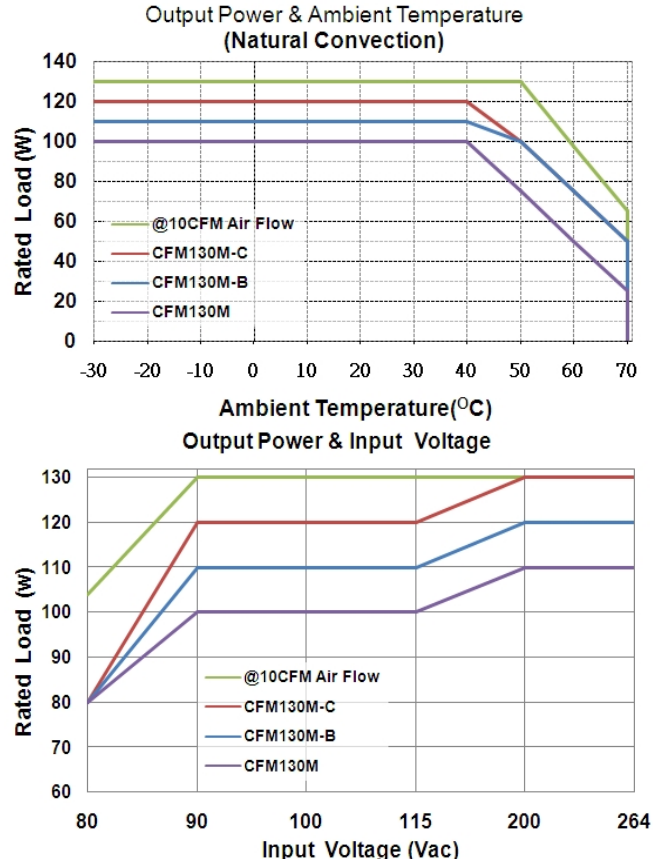
### GENERAL SPECIFICATIONS:

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 ..... EN60601-1-2:2015 Ed. 4.0  
 EN55011 FCC Part 18 Class B  
 IEC61000-4-2, 3, 4, 5, 6, 8, 11, IEC61000-3-2, 3  
 Safety ..... Class I, Class II  
 IEC60601-1, EN60601-1, UL ANSI/AAMI ES60601-1 Ed. 3.1

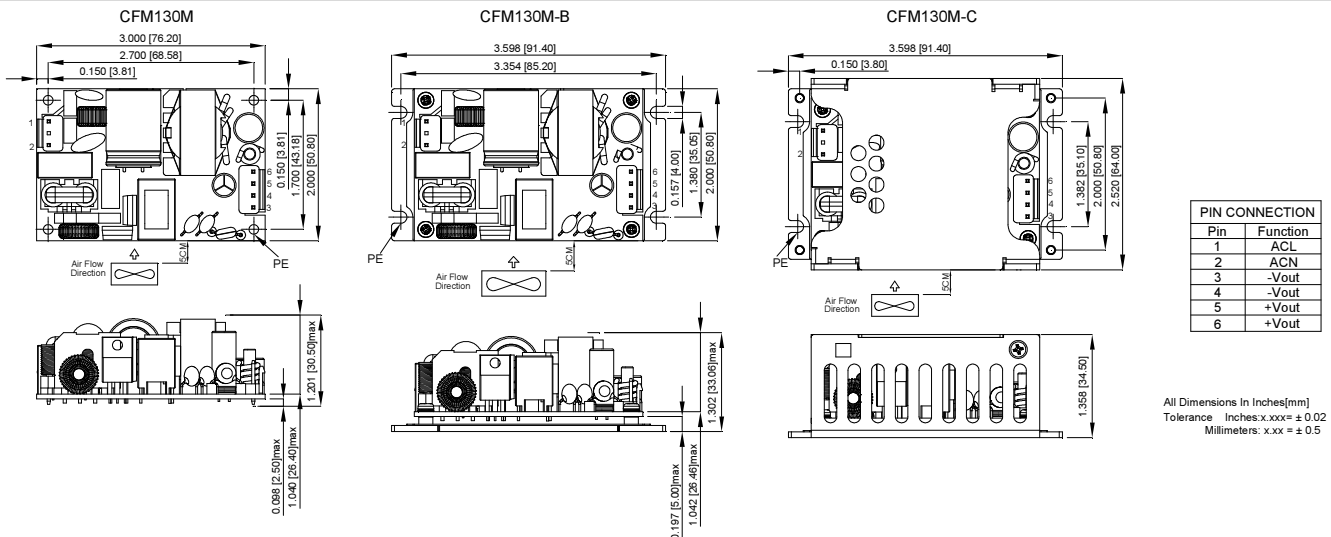
## CFM130M Series Derating Curve



### 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 VHR series or equivalent.
7. Requires 10CFM.
8. EMI meets EN55011 Class B when test condition is Class I, Class II. Radiation meets EN55011 Class B when test condition is Class I. Radiation meets EN55011 Class A when test condition is Class II.

## Mechanical Specification



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