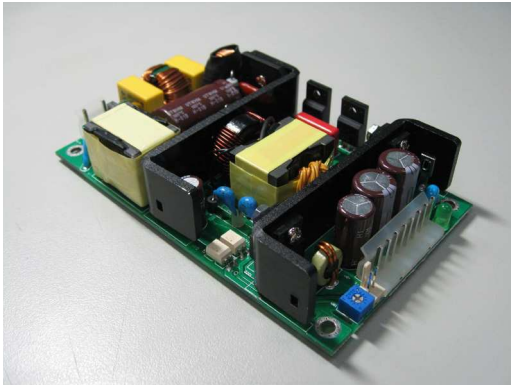


## 150W MEDICAL OPEN FRAME AC-DC MODULES WITH PFC



### Features:

- Universal Input Range 90 ~ 264VAC
- Meets EN60601-1 and EN55011 Class B
- 3" x 5" Compact Size
- Less than 1 U High : 1.05"
- Industry Standard Pin Out
- Active PFC Meets EN61000-3-2
- High Efficiency up to 92%
- Meets CISPR/FCC Class B
- Remote Voltage Sense
- Over Voltage Protection
- Continuous Short Circuit Protection
- No Load Power Consumption < 0.5w

### Safety Approvals



### Electrical Characteristics:

MODEL	OUTPUT VOLTAGE	MAX. LOAD	MIN. LOAD	RIPPLE & NOISE	VOLTAGE ACCURACY	LINE REGULATION	LOAD REGULATION	(%) EFF. (Typ.)
CFM150M120	12V	12.5A	0A	1%	±1%	±0.5%	±1%	90%
CFM150M240	24V	6.25A	0A	1%	±1%	±0.5%	±1%	92%
CFM150M360	36V	4.17A	0A	1%	±1%	±0.5%	±1%	93%
CFM150M480	48V	3.13A	0A	1%	±1%	±0.5%	±1%	93%

## Specifications

### INPUT SPECIFICATIONS:

Voltage ..... 90~264Vac  
 Frequency ..... 47 to 63Hz  
 Inrush Current ..... 110A max. @240Vac  
 Leakage Current ..... 300uA max.

### OUTPUT SPECIFICATIONS:

Holdup Time ..... 16ms typ.  
 Short Circuit Protection ..... Hiccup Mode (Auto Recover)  
 Adjustment Range on Vout .....  $\pm 5\%$   
 Over Voltage Protection ..... Recycle AC Input to Restart  
 Temperature Coefficient .....  $\pm 0.05\%/^{\circ}\text{C}$

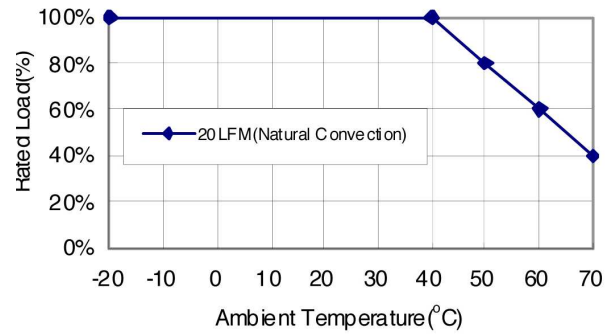
### GENERAL SPECIFICATIONS:

Isolation ..... Input to output = 5,656VDC  
 Operating Temperature .....  $20^{\circ}\text{C} \sim 70^{\circ}\text{C}$  (see Derating Curve)  
 Storage Temperature .....  $-20 \sim 85^{\circ}\text{C}$   
 Humidity ..... 93% RH max. Non condensing  
 Cooling ..... Natural Convection  
 Switching Frequency ..... 90KHz Typical  
 MTBF ..... MIL-HDBK-217F, GB,  $25^{\circ}\text{C}/115\text{VAC}$  ..... 100K hrs min.  
 Altitude ..... 3000m  
 Dimensions ..... 5.000x3.000x1.050Inches (127.00x76.20x26.67mm)  
 Weight ..... 270g (0.6Pounds)

### SAFETY AND EMC:

Emission and Immunity ..... EN55011 Class B, FCC Part 15 Class B  
 EN60601-1-2, EN61000-3-2 Class A, B, C, D, EN61000-3-3  
 Safety ..... IEC60601-1, EN60601-1, UL60601-1

## CFM150M Series Derating Curve



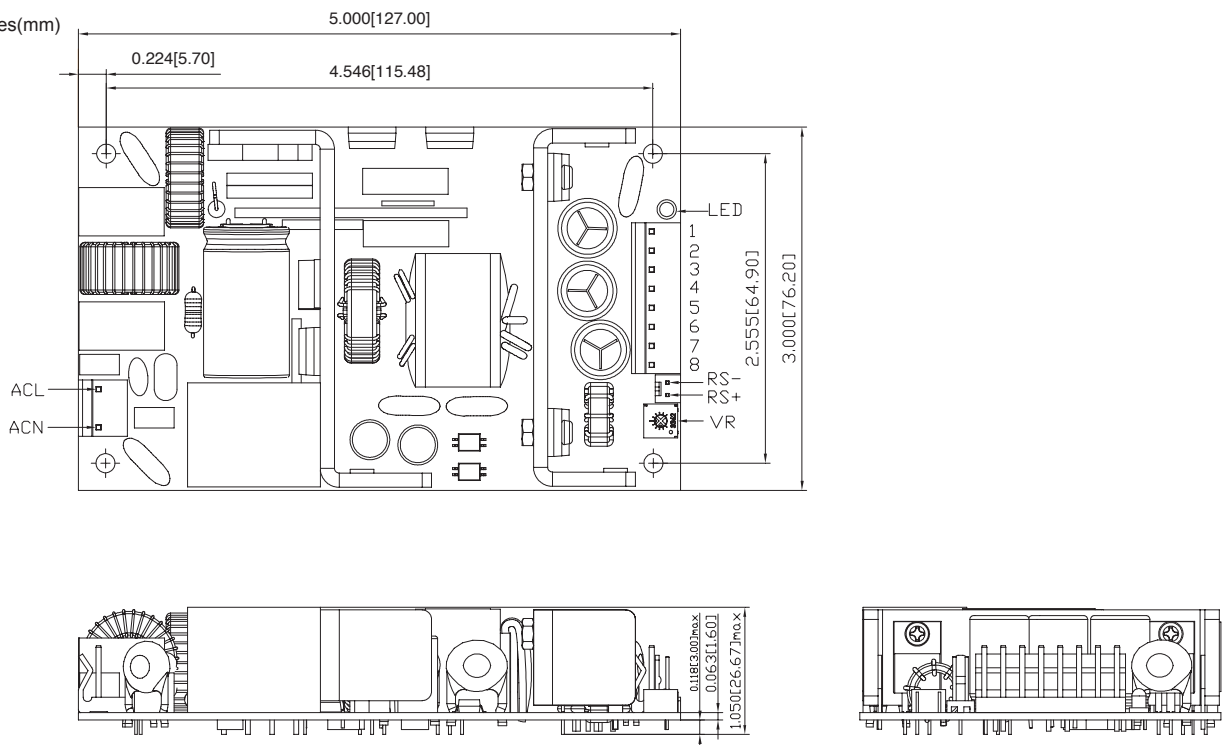
### NOTES:

1. CFM150M: Add a 0.1  $\mu\text{F}$  ceramic capacitor and 10 $\mu\text{F}$  E.L capacitor to output for Ripple & Noise measuring @20MHz BW.
2. Line regulation is measured from High Line to Low Line with full load.
3. Load regulation is measured from Full to 10% load.
4. Connectors: AC input: Molex 5277 or equivalent  
DC output: Molex 5273 or equivalent
5. DC output pin 1, 2, 3, 4: Vout (-), DC output pin 5, 6, 7, 8: Vout (+)

## CFM150M Series

All Dimensions In Inches(mm)

Tolerance  
 Inches: x.xxx=  $\pm 0.02$   
 Millimeters: x.xx=  $\pm 0.5$



TYPICAL AT 25°C, NOMINAL LINE AND 75% LOAD, UNLESS OTHERWISE SPECIFIED