

# CFM150M SERIES 150W MEDICAL AND ITE OPEN FRAME AC-DC MODULES WITH PFC



# **Features**

- \* Universal Input Range 90 ~ 264Vac
- \* Medical Approved
- \* 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 93%
- \* Meets CISPR/FCC Class B
- \* Remote Voltage Sense
- \* Over Voltage Protection
- \* Continuous Short Circuit Protection
- \* No Load Power Consumption < 0.5W
- \* Meets 2MOPP
- \* Meets Class I



MODEL	OUTPUT VOLTAGE	MAX. LOAD	MIN. LOAD	RIPPLE & NOISE NOTE 1	VOLTAGE ACCURACY NOTE2	LINE REGULATION NOTE 3	LOAD REGULATION NOTE 4	% EFF. (Typ.) NOTE 5
CFM150M120	12 V	12.5 A	0A	1%	±1%	±0.5%	±1%	90%
CFM150M240	24 V	6.25 A	0A	1%	±1%	±0.5%	±1%	92%
CFM150M360	36 V	4.17 A	0A	1%	±1%	±0.5%	±1%	92%
CFM150M480	48 V	3.13 A	0A	1%	±1%	±0.5%	±1%	93%

# **Specifications**

### INPUT SPECIFICATIONS:

Voltage	90~264Vac
	120~370V <sub>dc</sub>
Frequency	47 to 63Hz
Inrush Current	110A max. @240Vac
Leakage Current	300uA max.

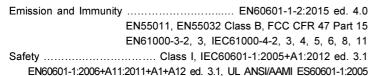
### **OUTPUT SPECIFICATIONS:**

Hold-up Time	16ms typ.
Short Circuit Protection	Hiccup Mode (Auto Recovery)
Adjustment Range on Vout	±5%
Over Voltage Protection	Recycle AC input to Restart
Temperature Coefficient	±0.05%/°C max.

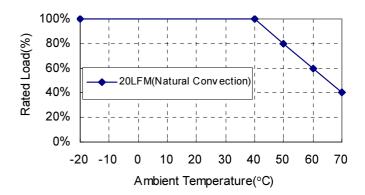
### **GENERAL SPECIFICATIONS:**

Input to Output = 5,656V <sub>dc</sub>
e20°C ~ 70°C (See Derating Curve) 20 ~ 85°C
Natural Convection
90kHz Typical.
DBK-217F, GB, 25°C/115V <sub>ac</sub> 100khrs min.
3000m
.000x3.000x1.050 inches (127.00x76.20x26.67 mm)
re :  H

### **SAFETY AND EMC:**



# **CFM150M Series Derating Curve**



### NOTE:

- Add a 0.1uF ceramic capacitor and 10uF E.L. capacitor to output for ripple&noise measuring @20MHz BW.
- 2. Voltage accuracy is set at 100% rated load and 25°C Ta.
- 3. Line regulation is measured from high line to low line with full load.
- 4. Load regulation is measured from full to 10% load.
- 5. Typical efficiency at 230VAC and full load at 25  $^{\circ}\!\mathrm{C}_{\,\cdot}$
- Standard input and output connectors wafer with LONG CHU P3060 series and mate with MOLEX housing 09-50-1031 and 09-50-1081 or equivalent.
- 7. DC output pin 1, 2, 3, 4: Vout (-), DC output pin 5, 6, 7, 8: Vout (+).

# **Mechanical Specification**

