



CFM750E SERIES

750 WATT SINGLE OUTPUT AC-DC POWER SUPPLY WITH PFC



Features

- * 1U Low Profile, High Power Density
- * Universal Input Range 90~264Vac
- * Active PFC Meets EN61000-3-2
- * Meets CISPR/FCC Class B
- * High Efficiency at 91% Typical
- * Remote Voltage Sense
- * PS On/Off Remote Control
- * +5V Stand-by Output Power
- * Fan Speed Control with Temperature
- * Active Current Sharing
- * I²C Bus Interface



MODEL	VOLTAGE OUTPUT	OUTPUT CURRENT(A)		RIPPLE & NOISE	VOLTAGE ADJ. RANGE	VOLTAGE ACCURACY	LINE REG.	LOAD REG.	% EFF. (Typ)
		RATED	MIN.						
Main Output Voltage									
CFM750E-240	+24 V	31.2	0	200 mVp-p	22.8~26.4V	±2.0%	±0.5%	±1%	89%
CFM750E-360	+36 V	20.8	0	240 mVp-p	34.2~39.6V	±2.0%	±0.5%	±1%	91%
CFM750E-480	+48 V	15.6	0	240 mVp-p	45.6~52.8V	±2.0%	±0.5%	±1%	92%
Standby Output Voltage									
All	+5.0 V	1.0	0	100 mVp-p		±2.0%	----	----	

Specifications

INPUT SPECIFICATIONS:

AC Input Voltage 90~264Vac
 Frequency 47 to 63Hz
 Inrush Current 40A max. @230Vac
 Conducted EMI CISPR/FCC Class B
 Leakage Current/240Vac 3.5mA max.

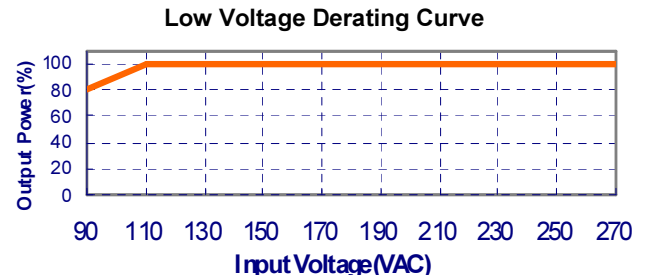
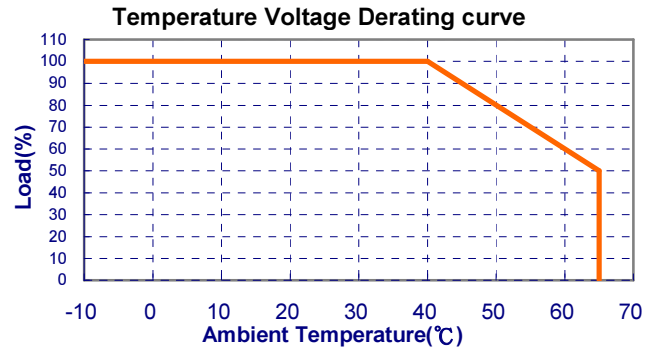
OUTPUT SPECIFICATIONS:

Total Rated Output Power 750W
 Remote Voltage Sense Compensates for wire Voltage drop
 Adjustment Range on Vout +10%, -5%
 Hold-up Time 20ms typ.
 Over Voltage Protection Recycle AC input to Restart
 Short Circuit Protection Auto Recovery
 Temperature Coefficient ±0.05%/°C

GENERAL SPECIFICATIONS:

Isolation Input to output = 4242VDC
 Operating Temperature -10~65°C (see Derating Curve)
 PSU will be in thermal protection for exceeding the rated power output or the operating temperature
 Storage Temperature -20~85°C
 Humidity 93% RH max. Non condensing
 Switching Frequency 100KHz Typical
 MTBF MIL-HDBK-217F, GB, 25°C/115VAC 80Khrs min.
 Altitude 2000m
 Dimensions 11.02x4.00x1.65inches (280.0x101.6x41.9mm)
 Weight 1610g(3.55Pounds)

CFM750E Series Derating Curve



SAFETY AND EMC:

Emission and Immunity EN55022 Class B, FCC Part15 Class B
 EN61000-6-3, EN61000-3-2, EN61000-3-3
 EN55024, EN61204-3, EN61000-6-1
 Safety IEC60950-1, EN60950-1, UL60950-1

NOTE:

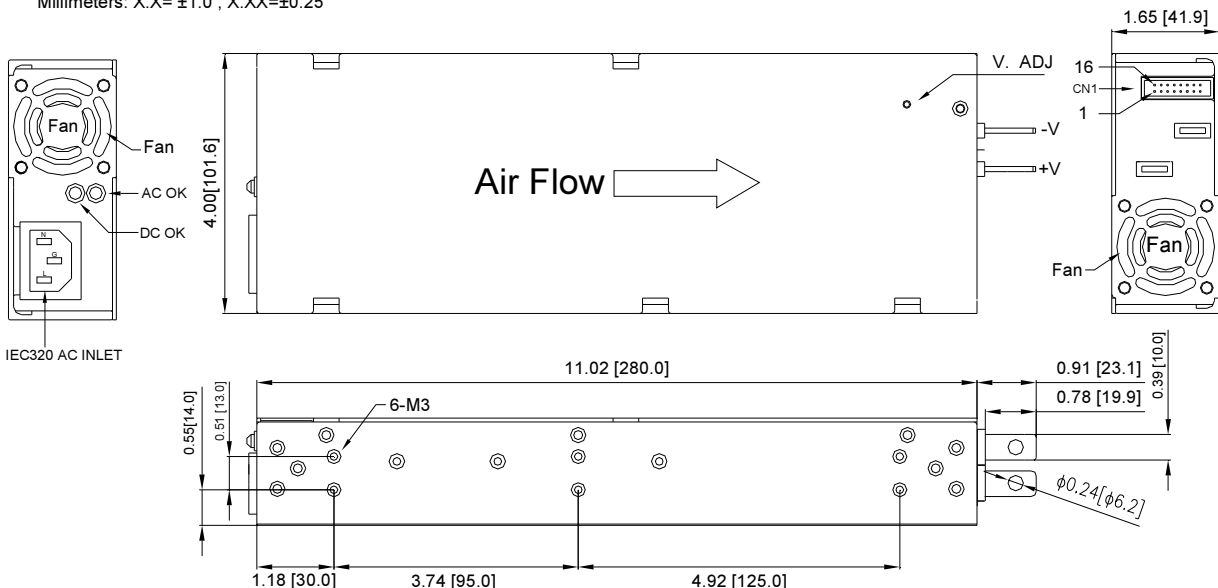
1. Add a 0.1uF ceramic capacitor and a 47uF E.L. capacitor to output for Ripple & Noise measuring @20MHz BW.
2. Voltage accuracy is set at 60% rated load and 25°C. Ta.
3. Line regulation is measured from high line to low line with rated load.
4. Load regulation is measured at 60%±40% rated.

Mechanical Specification

All Dimensions In Inches(mm)

Tolerances Inches: X.XX= ±0.04 , X.XXX= ±0.010

Millimeters: X.X= ±1.0 , X.XX=±0.25



CN1 : Molex70247-16 or equivalent
 PIN CONNECTION

16	+SENSE	15	I_SHARE	14	+5VSB	13	DC_OK	12	V_TRIM	11	GND	10	IC-SDA	9	ON/OFF
1	-SENSE	2	AC_OK	3	+5VSB	4	IC-A0	5	OTPW	6	GND	7	IC-SCL	8	IC-A1

Typical at 25°C, 230Vac and 60% rated load, unless otherwise Specified