

CFM750E

S E R I E S

750 WATT SINGLE OUTPUT AC-DC POWER SUPPLY WITH PFC



Features

- 1U Low Profile, High Power Density
- Universal Input: 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	OUTPUT VOLTAGE	OUTPUT CURRENT (A)	RIPPLE & NOISE NOTE 1	VOLTAGE ADJ. RANGE	VOLTAGE ACCURACY	LINE REG. NOTE 3	LOAD REG. NOTE 4	%EFF (Typ.) NOTE 5
Main Output Voltage								
CFM750E-240	+24 V	31.2	200 mVp-p	22.8 ~ 26.4 V	± 2.0%	± 0.5%	± 1%	89%
CFM750E-360	+36 V	20.8	240 mVp-p	34.2 ~ 39.6 V	± 2.0%	± 0.5%	± 1%	91%
CFM750E-480	+48 V	15.6	240 mVp-p	45.6 ~ 52.8 V	± 2.0%	± 0.5%	± 1%	92%
Standby Output Voltage								
All	+5.0 V	1.0	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/24Vac..... 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 $\pm 0.05\%/^{\circ}\text{C}$

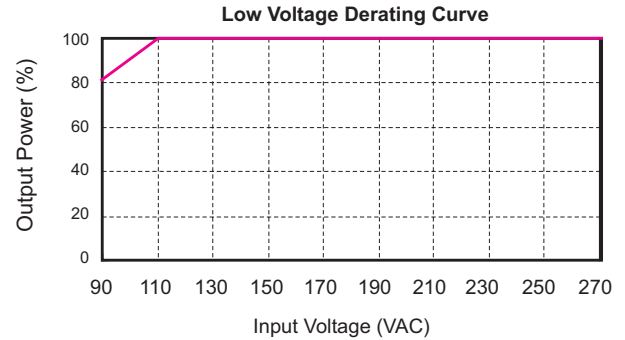
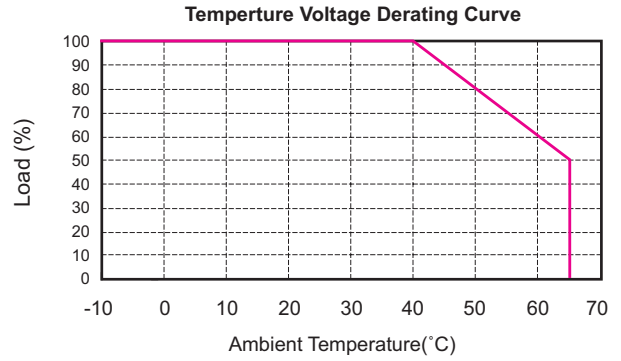
GENERAL SPECIFICATIONS:

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 80K hrs min.
 Altitude 2000m
 Dimensions..... 11.020x4.000x1.650 inches (279.90x101.60x41.91 mm)
 Weight..... 1610g (3.55 Pounds)

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

CFM750E Series Derating Curve



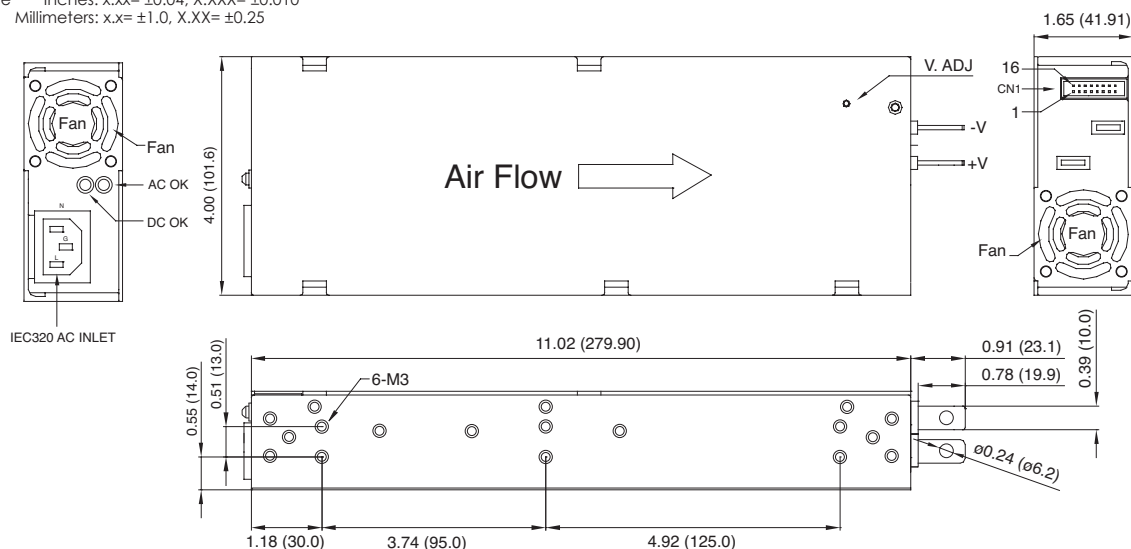
NOTE:

1. Add a 0.1 μF ceramic capacitor and a 47 μF 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% \pm 40% rated load.
5. Typical efficiency at 230 VAC and full load at 25°C.

CFM750E

Mechanical Specification

All Dimensions In Inches(mm)
 Tolerance 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	FC-SDA	9	ON/OFF
1	-SENSE	2	AC_OK	3	+5VSB	4	FC-A0	5	OTPW	6	GND	7	FC-SCL	8	FC-A1