

CFM1600H

S E R I E S

1600 WATT SINGLE OUTPUT AC-DC MODULES 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 90% Typical
- PS ON/OFF Remote Control
- +5V Stand-by Output Power
- Fan Speed Control Function (Option)
- Fan Fail Warning Signal
- Active Current Sharing
- Hot Swap Redundancy
- Build-in ORing FETs
- I²C Bus Interface
- Optional 1U x 19" Power Rack

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT (A)		RIPPLE & NOISE	VOLTAGE ADJ. RANGE	VOLTAGE ACCURACY	LINE REG. ³	LOAD REG. ⁴	EFFICIENCY (TYPICAL)
		RATED @ 180~264Vac	MIN.						
		RATED@90~132Vac							
CFM1600H-480-24P	Main Output								
	+48V	33.4	0	1%	45.6~52.8V	± 1%	± 1%	± 1%	90%
		25.0							
	Standby Output Voltage								
	+5V	1	0	100mVp-p	----	----	± 1%	± 1%	----
CFM1600H-240-24P	Main Output								
	+24V	60	0	1%	22.8~26.4V	± 1%	± 1%	± 1%	89%
		50							
	Standby Output Voltage								
	+5V	1	0	100mVp-p	----	----	± 1%	± 1%	----

Specifications

INPUT SPECIFICATIONS:

AC Input Voltage.....90 ~ 264Vac
Frequency47 to 63Hz
Inrush Current.....40A max. @230Vac
Conducted EMI CISPR/FCC Class B
Leakage Current.....3.5mA max.

OUTPUT SPECIFICATIONS:

Total Rated output1200W(@90~132Vac)
1600W(@180~264Vac)
Current Share Single wire Current Sharing
Adjustment Range on Vout +10%, -5%
Remote Voltage SenseCompensates for wire Voltage drop
Hold-up Time 20ms typ.
Over Voltage ProtectionRecycle AC input to Restart
Short Circuit ProtectionAuto Recovery
Temperature Coefficient $\pm 0.05\%/^{\circ}\text{C}$

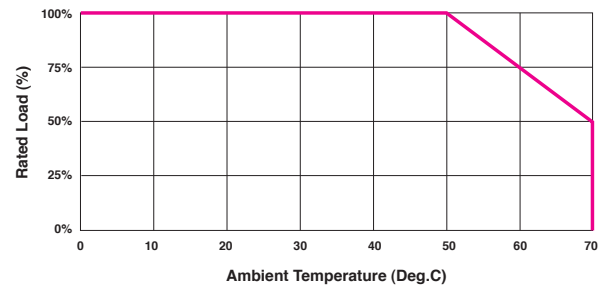
GENERAL SPECIFICATIONS:

Isolation Input to output = 4242VDC
Operating Temperature0~70°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
Humidity93% RH max. Non condensing
Switching Frequency 125KHz Typical
MTBF MIL-HDBK-217F, GB, 25°C/115VAC70K hrs min.
Altitude 2000m
Dimensions 11.52x5.54x1.65Inches (292.6x140.7x42.0mm)

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

CFM1600H Series Derating Curve



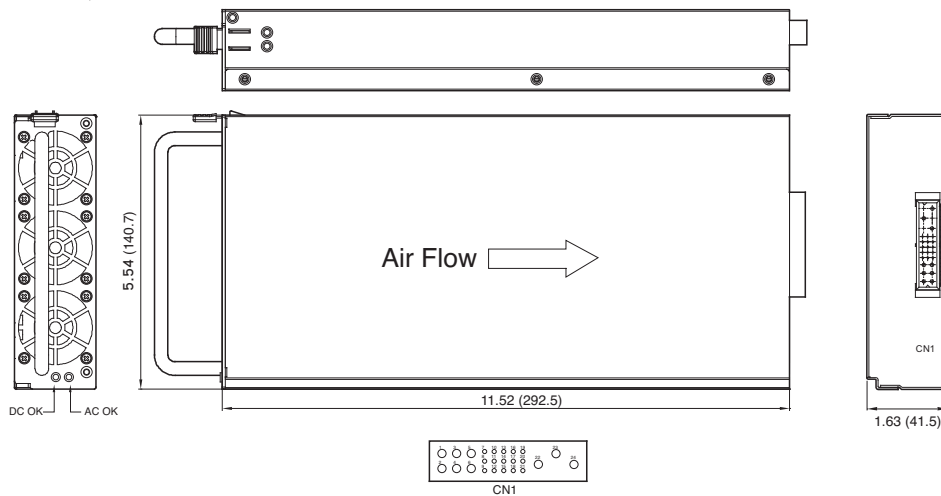
NOTE:

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 load.
5. Suffix"-F" to model number with fan speed control function.

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Mechanical Specification

All Dimensions In Inches(mm)
Tolerance Inches: x.xxx= ± 0.04 , X.XXX= ± 0.010
Millimeters: x.xx= ± 1.0 , X.XX= ± 0.25



CFM1600H-480-24P CN1: Positronic PCB24W9M400A1 or Equivalent PIN CONNECTION

1	-Vout	7	ON/OFF	13	I ² C-A2	19	SB_GND
2	-Vout	8	I ² C-A1	14	+SENSE	20	DC_OK
3	+Vout	9	L_SHARE	15	I ² C-SCL	21	V_TRIM
4	-Vout	10	I ² C-A0	16	+5VSB	22	PE
5	+Vout	11	-SENSE	17	AC_OK	23	N
6	+Vout	12	I ² C-SDA	18	OTPW	24	L

MATING CONNECTOR: Positronic PCB24W9F400A1 or Equivalent
Note: 1. Pin7 is Short Pin 2. Pull Down Pin7 to Activate the PSU

AMEYA360

Components Supply Platform

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