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1600W Enclosed type Single output power supply < CFM1600H

CFM1600H

S E R I E S

**1600 WATT SINGLE OUTPUT
 AC-DC MODULES WITH PFC**



Features

- Universal Input Range 90-264VAC
- +5V Standby Output
- 1U Low Profile
- Meets CISPR/FCC Class B
- Active PFC Meets EN61000-3-2
- High Efficiency at 89% Typical
- Internal Cooling Fans
- Fan Speed Control Function (Option)
- Active Current Sharing
- Hot Swap Redundancy
- 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.							
CFM1600H-480	Main Output									
	+48V	33.4	0	1%	45.6~52.8V	± 1%	± 1%	± 1%	89%	
		25.0								
	Standby Output Voltage									
+5V	1	0	100mVp-p	----	----	± 1%	± 1%	----		



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Specifications

INPUT SPECIFICATIONS:

AC Input Voltage.....90 ~ 264Vac
 Frequency47 to 63Hz
 Inrush Current.....40A max. @230Vac
 EMI.....CISPR/FCC Class B
 IsolationInput to output =4,242VDC
 Leakage Current.....3.5mA max.

OUTPUT SPECIFICATIONS:

Total Rated Output Power.....1200W (@90~132Vac)
 1600W (@180~264Vac)
 Current Share.....Single Wire Current Sharing
 Remote Voltage Sense.....Compensates for wire Voltage drop
 Adjustment Range on Vout.....+10%, -5%
 Hold-up Time20mS typ.
 Over Voltage ProtectionRecycle AC input to restart
 Over Temperature ProtectionAuto Recovery
 Short Circuit Protection..... Auto Recovery

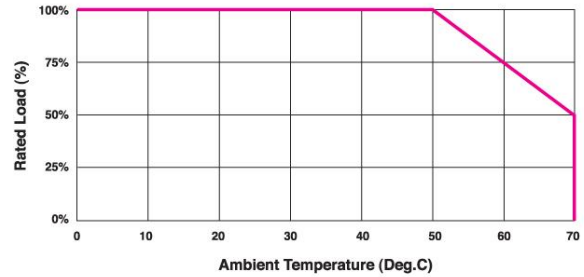
ENVIRONMENTAL CHARACTERISTICS:

Operating Temperature0 ~ 70°C
 50~70°C with 2.5%/°C Derating
 PSU will be in thermal protection for exceeding the rated power output
 or the operating temperature
 Storage Temperature-40 ~ 85°C

MECHANICAL CHARACTERISTICS:

Dimensions.....292.6 X140.7 X 42.0mm (11.52X5.54X1.65Inches)

CFM1600H Series Derating Curve

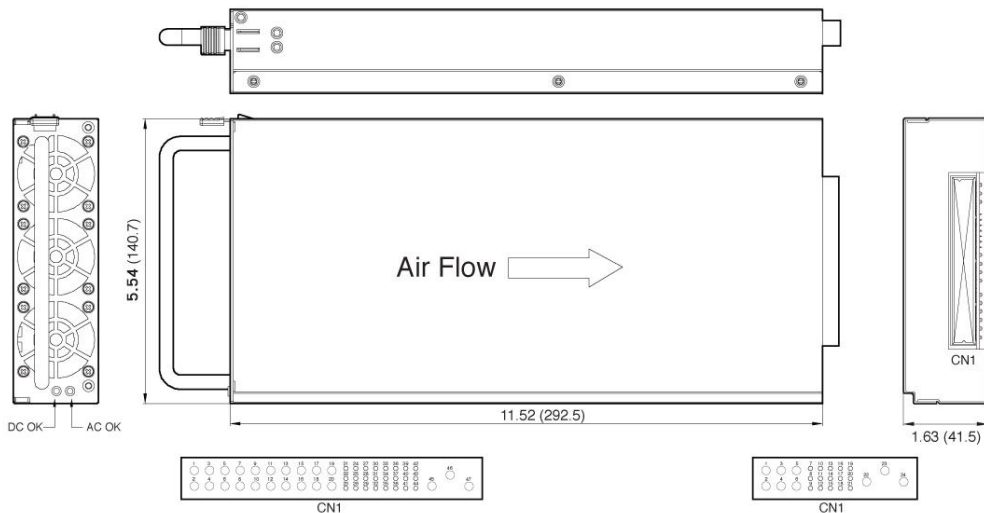


NOTE:

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.

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 CN1: Positronic PCIH47M400A1 or Equivalent
 PIN CONNECTION

1	Reserved	7	-Vout	13	+Vout	19	Reserved	25	I _{PC} -A0	31	I _{PC} -A2	37	I _{PC} -SCL	43	Reserved
2	Reserved	8	-Vout	14	+Vout	20	Reserved	26	Reserved	32	V_TRIM	38	AC_OK	44	PRESENT
3	Reserved	9	-Vout	15	+Vout	21	+5VSB	27	ENABLE	33	+SENSE	39	ON/OFF	45	PE
4	Reserved	10	-Vout	16	+Vout	22	S_GND	28	I _{PC} -A1	34	-SENSE	40	I _{PC} -SDA	46	N
5	-Vout	11	-Vout	17	+Vout	23	Reserved	29	PRFL	35	OTPW	41	L_SHARE	47	L
6	-Vout	12	-Vout	18	+Vout	24	SB_GND	30	FANC	36	Reserved	42	DC_OK	48	

MATING CONNECTOR: Positronic PCIH47F400A1 or Equivalent

Note: 1. Pin27 is Short Pin 2.PRFL: Fan Fail Warning 3. FANC: Fan Speed Control 4. Pull Down Pin27, 39 to Activate the PSU

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

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