



CFM1600H SERIES

1600WATT 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 89% Typical
- * PS ON/OFF Remote Control
- * +5V Stand-by Output Power
- * Fan Speed Control Function
- * 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 REGULATION	LOAD REGULATION	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%	89%	
		25.0								
	Standby Output									
+5V	1	0	100mVp-p	---	---	±1%	±1%	---		

Specifications

INPUT SPECIFICATIONS:

AC Input Voltage 90~264Vac
 Frequency 47 to 63Hz
 Inrush Current 40A max. @230Vac
 Conducted EMI CISPR/FCC Class B
 Isolation Input to output = 4242VDC
 Leakage Current 3.5mA max.

OUTPUT SPECIFICATIONS:

Total Rated output 1200W(@90~132Vac)
 1600W(@180~264Vac)
 Current Share Single wire Current Sharing
 Adjustment Range on Vout +10%, -5%
 Remote Voltage Sense Compensates for wire Voltage drop
 Hold-up Time 20ms typ.
 Over Voltage Protection Recycle AC input to Restart
 Over Temperature Protection Auto Recovery
 Short Circuit Protection Auto Recovery

ENVIRONMENTAL CHARACTERISTICS:

Operating Temperature 0 ~ 70°C
 50~70°C with 2.5%/°C Derating

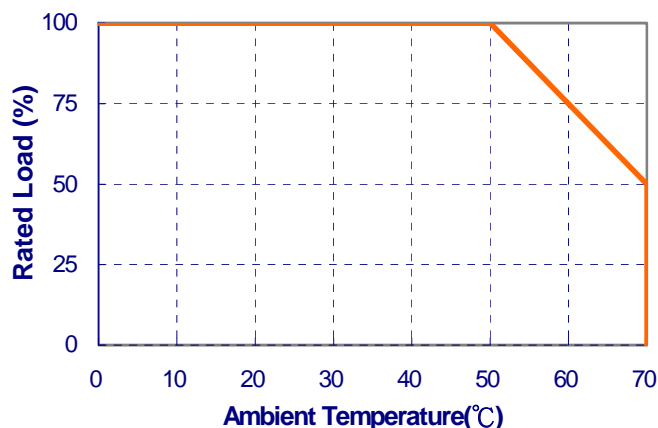
PSU will be in thermal protection for exceeding the rated power output or the operating temperature

Storage Temperature -40~85°C

MECHANICAL CHARACTERISTICS:

Dimensions 11.52x5.54x1.65Inches (292.6x140.7x42.0mm)

CFM1600H Series Derating Curve



NOTE:

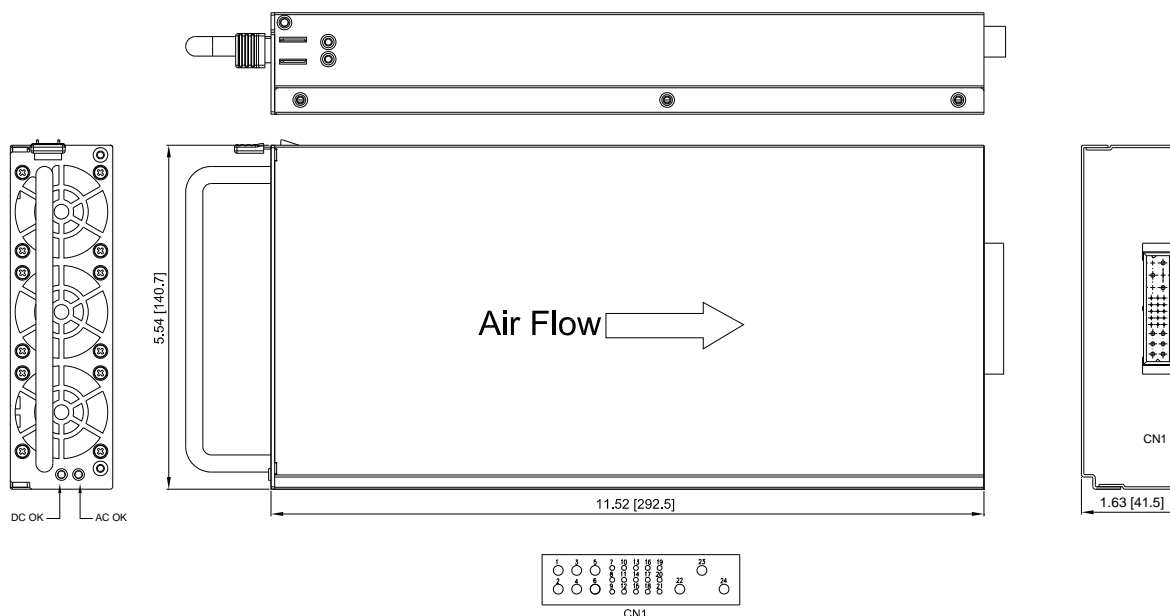
1. Add a 0.1uF ceramic capacitor and a 47uF E.L. capacitor to output for Ripple & Noise measuring @20MHz BW.
2. Voltage accuracy is set at 60% rated load and 25°C.Ta.
3. Line regulation is measured from High Line to Low Line with rated load.
4. Load regulation is measured at 60%±40% rated load.

Mechanical Specification

All Dimensions In Inches(mm)

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

Millimeters: X.X= ±1.0 , X.XX=±0.25



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

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

Revision History

Revision Version	Date	Change Description	Signature
V10	2007/11/30	New Release	Joyce
V11	2008/01/22	Modify Model Number CFM1600H-480 and Mechanicals Drawing	Joyce
V12	2008/03/18	Add Main Output Voltage and Standby Output Voltage, Modify Mechanicals Drawing	Joyce
V13	2008/06/19	Modify <i>Typical at 25°C, 230Vac and 60% rated load, unless otherwise Specified</i>	Joyce
V14	2008/10/24	Modify Mechanicals Drawing and Add Note: CFM1600H-480-24P: 24PIN connector model available	Joyce
V15	2009/02/05	Modify Model CFM1600H-480-24P and delete note: CFM1600H-480-24P: 24PIN connector model available, Modify Mechanicals Drawing	Joyce