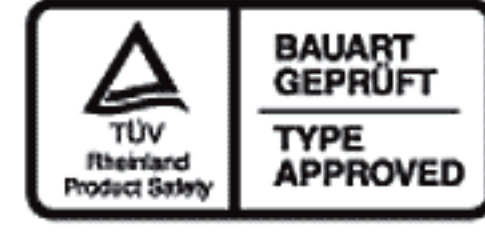


S E R I E S

CFM1600S

NEW

1600 WATT SINGLE OUTPUT
U FRAME AC-DC MODULES
WITH PFC



CB



Features

- 1.63" Low Profile
- Universal Input : 90 ~ 264Vac
- Active PFC Meets EN61000-3-2
- Conductive EMI Meets CISPR/FCC Class B
- High Efficiency at 89% Typical
- Fan Speed Control Signal
- +5V Stand-by Output
- N+1 Hot Swap Redundant
- Remote Voltage Sense
- DC OK Signal (Power Good, Logic High)
- PS ON/OFF Remote Control (Inhibit PSU by Opening the pin)

Specifications

INPUT CHARACTERISTICS:

AC Input Voltage.....90 ~ 264Vac
Frequency 47 to 63Hz
Inrush Current 40A Max.
EMI CISPR/FCC Class B
Isolation Input to output =4,242Vdc
Leakage Current..... 3.5mA max.

ENVIRONMENTAL CHARACTERISTICS:

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

NOTE:

- 1: Optional functions can be added when ordering:
AC OK Signal (PS Fail, Logic High)
Signal Communication.
- 2: Add a 0.1uF ceramic capacitor and a 47uF E.L. capacitor to output for Ripple & Noise measuring @20MHz BW.
- 3: Voltage accuracy is set at 60% rated load and 25C Ta.

OUTPUT CHARACTERISTICS:

Total Rated Output Power.....1200W (@90~132Vac)
1600W (@180~264Vac)
Current ShareSingle wire current sharing
Remote Voltage sense.....Compensates for wire voltage drop
Hold-up Time20ms typ.
Over Voltage ProtectionRecycle AC input to restart
Over Temperature ProtectionAuto Recovery
Short Circuit Protection..... Auto Recovery

MECHANICAL OUTLINE:

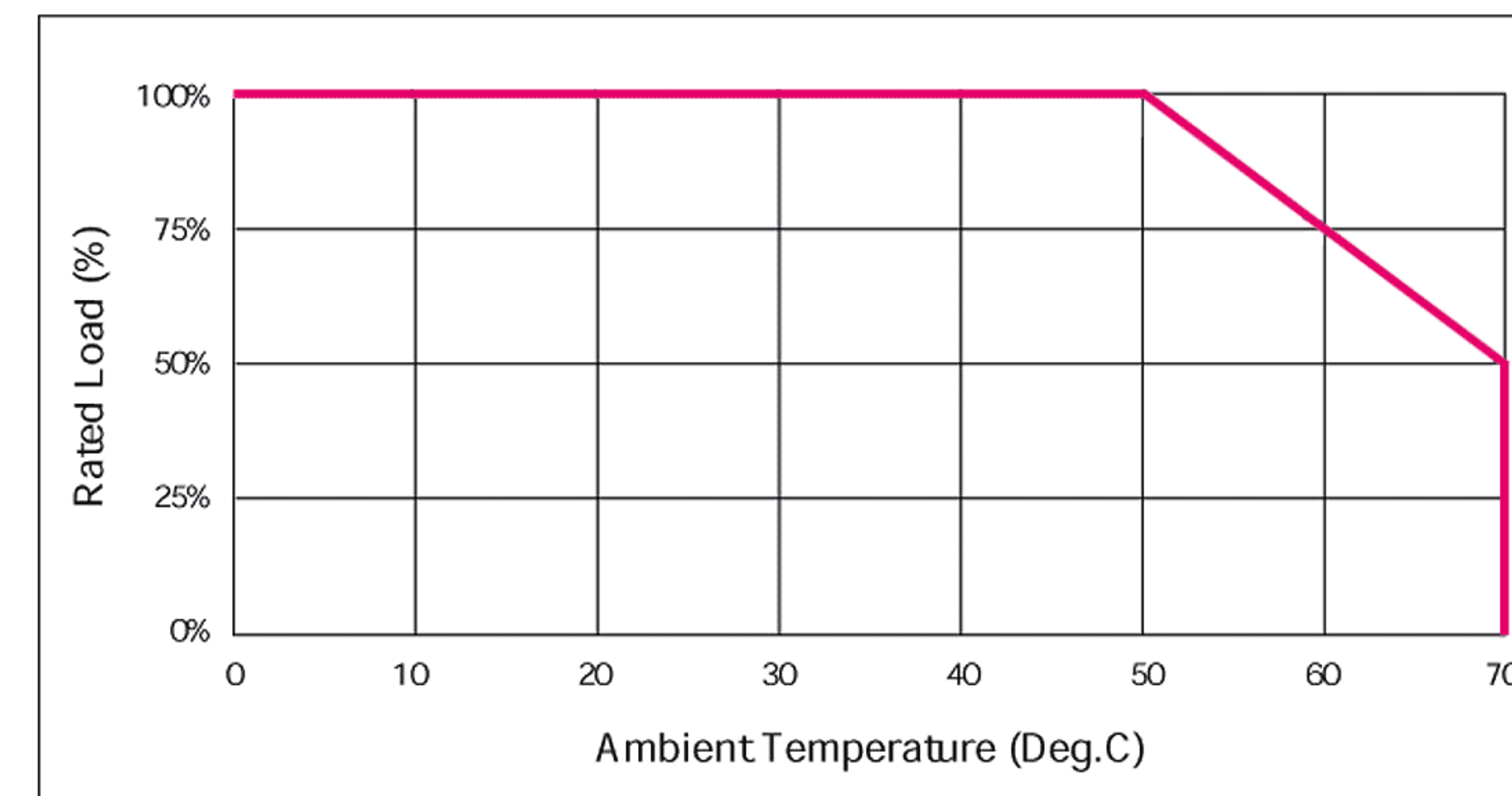
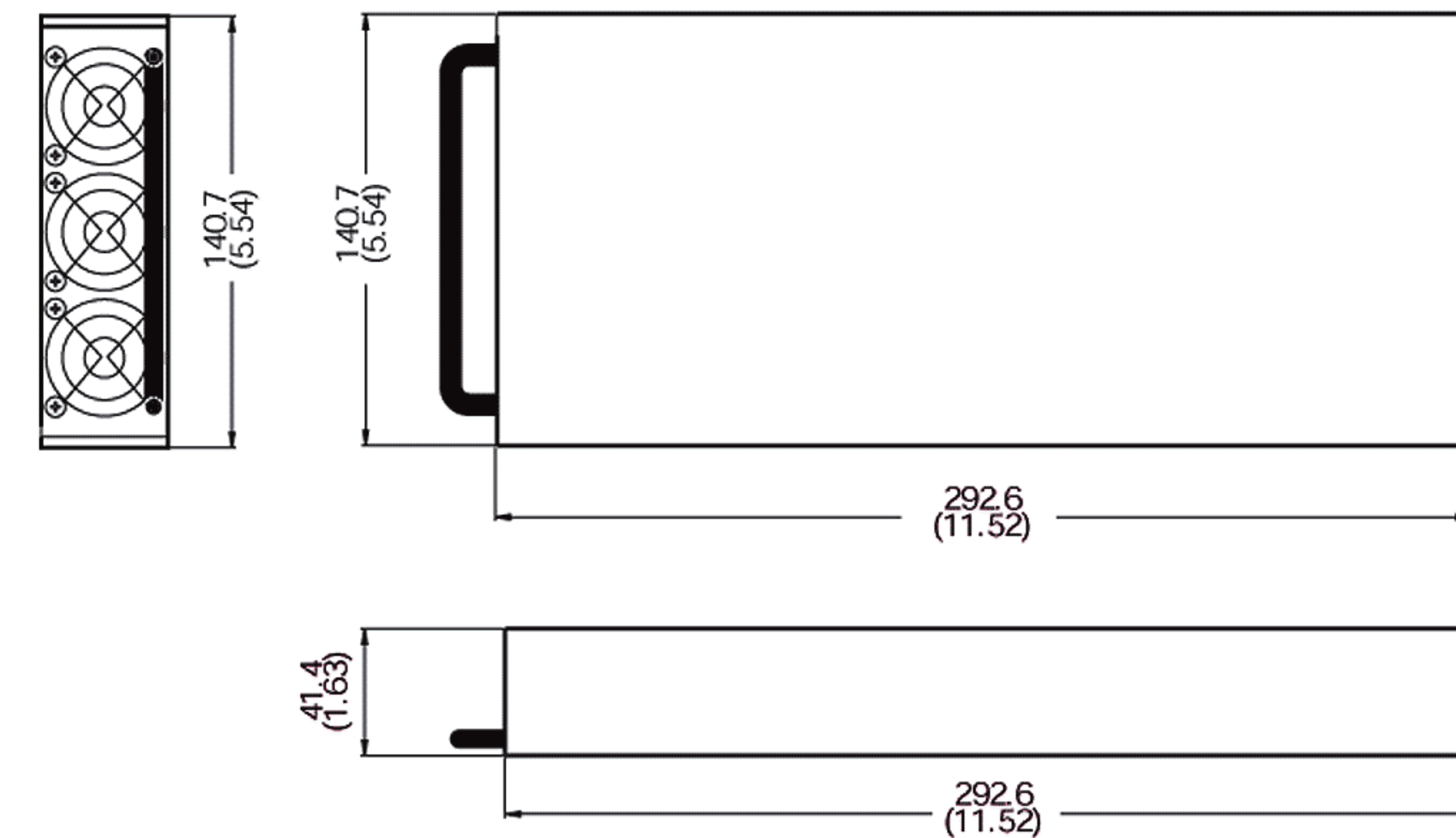
Without Optional Fan.....41.4x140.7x292.6mm
(1.63" x 5.54" x 11.52")

- 4: Line regulation is measured from High Line to Low Line with rated load.
- 5: Load regulation is measured at 60%+40% rated load.
- 6: Dimensions tolerance : +/- 1mm.
- 7: Connectors:
CN1 : Positronic PCIH47M400A1 or equivalent

MODEL	Output Voltage	Output Current (A) Rated@ 180-264Vac Rated@ 90-132Vac	Min.	Ripple & Noise	Voltage Accuracy	Line Reg.	Load Reg.
CFM1600S-120	+12V	133.4	0	1%	±1%	±1%	±1%
		100.0					
CFM1600S-240	+24V	66.7	0	1%	±1%	±1%	±1%
		50.0					
CFM1600S-360	+36V	44.5	0	1%	±1%	±1%	±1%
		33.4					
CFM1600S-480	+48V	33.4	0	1%	±1%	±1%	±1%
		25.0					

Mechanical Specification

All Dimensions are In Inches(mm)
Tolerances: .xx±.04(.xx±.1) unless otherwise noted



PIN CONNECTION

Pin	Signal Name
1	Reserved
2	Reserved
3	Reserved
4	Reserved
5	Vout Return
6	Vout Return
7	Vout Return
8	Vout Return
9	Vout Return
10	Vout Return
11	Vout Return
12	Vout
13	Vout
14	Vout
15	Vout
16	Vout
17	Vout
18	Vout
19	Reserved
20	Reserved
21	+5VSB Output
22	Signal Return
23	Reserved
24	+5VSB Return
25	ADD GA0
26	Reserved
27	Enable (short pin)
28	ADD GA1
29	Reserved
30	Reserved
31	ADD GA2
32	ADJ: Vout Trim Pin
33	+Vout Sense
34	-Vout Sense
35	Reserved
36	Reserved
37	FRU SCL
38	Reserved
39	Inhibit
40	FRU SDA
41	Current Share Signal
42	Power_Good Signal
43	
44	Reserved
45	Chassis Ground
46	AC Input Neutral
47	AC Input Line

Typical at 25C, nominal line and 75% load, unless otherwise Specified.