

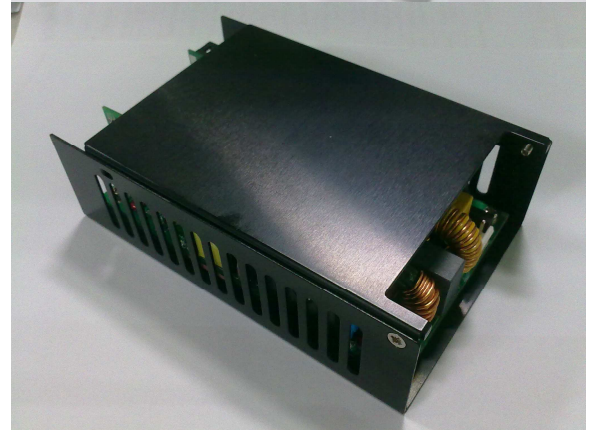


# CFM361S SERIES

## 360 WATT AC-DC POWER SUPPLY WITH PFC

### Features

- \* Universal Input Range 90~264Vac
- \* 3"x 5" Compact Size/CFM361S
- \* 300W with natural convection @ 220Vac/CFM361S
- \* 360W with natural convection @ 220Vac/CFM361SXXXC
- \* 360W with baseplate cooled -20~85°C/CFM361SXXXC
- \* Meets EN60950 and EN55022 Class B
- \* Active PFC Meets EN61000-3-2 Class D
- \* High Efficiency Up to 93.5% Typical
- \* High Power Density Up to 15W/Inch<sup>3</sup>/CFM361S
- \* Remote Voltage Sense
- \* PS ON/OFF Remote Control
- \* +5V Stand-by Output Power
- \* 12V fan output



MODEL	VOLTAGE OUTPUT	OUTPUT CURRENT	RIPPLE & NOISE	VOLTAGE ADJ.RANGE	VOLTAGE ACCURACY	LINE REGULATION	LOAD REGULATION	%EFF. (Typ.)
<b>Main Output Voltage</b>								
CFM361S120	+12V	29.6A	120mVp-p	11.4~12.6V	±1.0%	±0.5%	±1%	92.5%
CFM361S240	+24V	14.8A	150mVp-p	22.8~25.2V	±1.0%	±0.5%	±1%	93.5%
CFM361S480	+48V	7.4A	150mVp-p	45.6~50.4V	±1.0%	±0.5%	±1%	93.5%
<b>Stand-by Output Voltage</b>								
All	+5.0V	0.5	----		----	----	----	
<b>Fan Output Voltage</b>								
All	+12.0V	0.3	----		----	----	----	

# Specifications

## INPUT SPECIFICATIONS:

AC Input Voltage ..... 90~264Vac  
 Frequency ..... 47 to 63Hz  
 Inrush Current ..... 50A max. @240Vac  
 Leakage Current @ 264Vac ..... 3.5mA max.

## OUTPUT SPECIFICATIONS:

Total Rated Output Power ..... 360W  
 Remote Voltage Sense ..... Compensates for wire Voltage drop  
 Adjustment Range on Vout ..... ±5%  
 Hold-up Time ..... 12ms typ.  
 Over Voltage Protection ..... Recycle AC input to restart  
 Short Circuit Protection ..... Hiccup mode(Auto Recovery)  
 Over Temperature Protection ..... Auto Recovery  
 Temperature Coefficient ..... ±0.05%/°C

## SAFETY AND EMC:

Emission and Immunity ..... EN55022 Class B, FCC Part 15 Class B  
 EN61000-6-3, EN61000-3-2, EN61000-3-3  
 EN55024, EN61000-6-1, EN61204-3  
 Safety ..... IEC60950-1, EN60950-1, UL60950-1

## GENERAL SPECIFICATIONS:

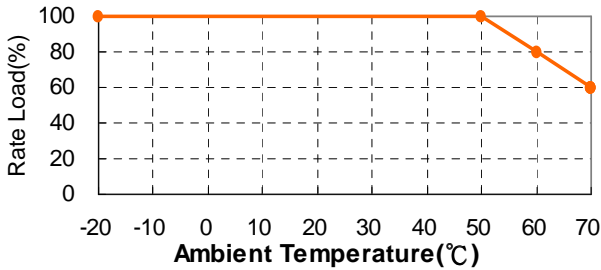
Isolation ..... Input to output = 4242VDC  
 Operating Temperature ..... see Derating Curve  
 Storage Temperature ..... -40~85°C  
 Humidity ..... 93% RH max. Non condensing  
 Switching Frequency ..... 55~60KHz Typical  
 MTBF ..... MIL-HDBK-217F, GB, 25°C/115VAC ..... TBD  
 Altitude ..... 2000m  
 Dimensions :  
 Open frame versions...5.000x3.000x1.598 Inches(127.00x76.20x40.60mm)  
 Covered versions .....5.391x3.425x1.697 Inches(136.94x87.00x43.10mm)  
 Weight :  
 Open frame versions.....470g(1.04Pounds)  
 Covered versions.....550g(1.21Pounds)

## NOTE:

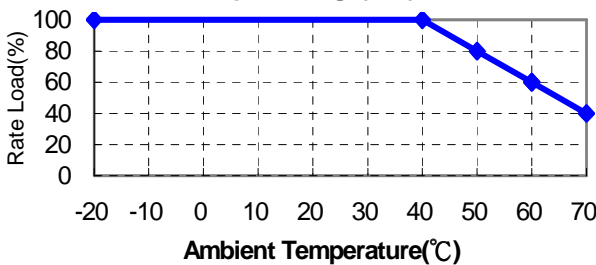
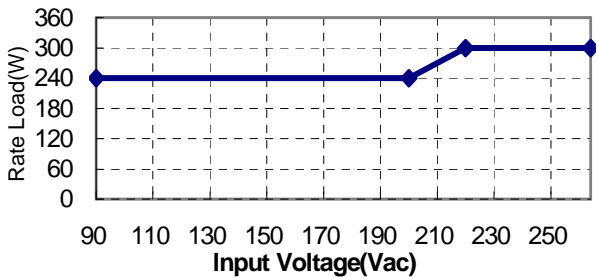
1. Add a 0.1uF ceramic capacitor and a 47uF E.L. capacitor to output for Ripple & Noise measuring @20MHz BW.
2. Voltage accuracy is set at 60% rated load and 25°C .Ta.
3. Line regulation is measured from High Line to Low Line with rated load.
4. Load regulation is measured at 60%±40% rated.
5. Power dissipation (Pd):  $P_d = P_i - P_o = P_o(1-\eta)$

### CFM361S Series Derating Curve

360W With 10CFM Air Flow

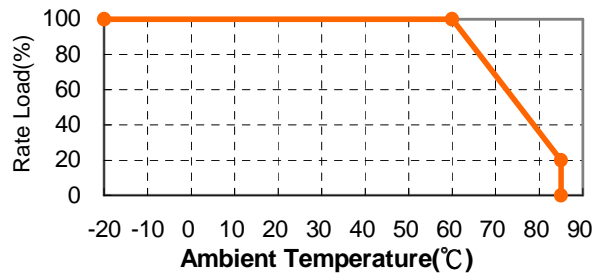


360W With Natural Convection

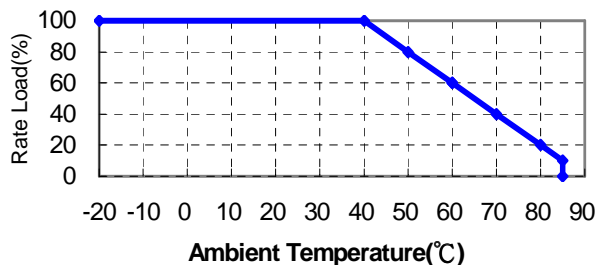
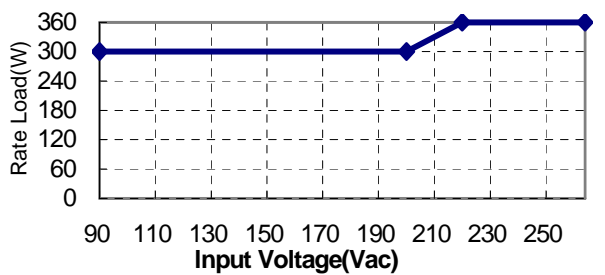


### CFM361SXXXC Series Derating Curve

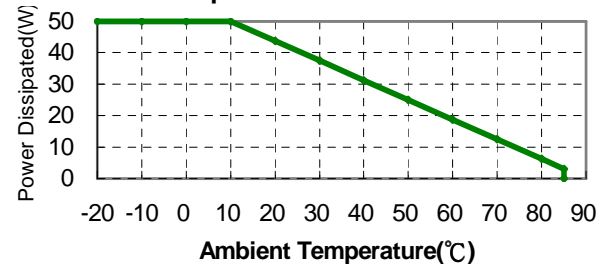
360W With 10CFM Air Flow



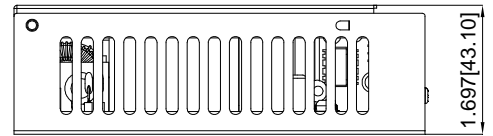
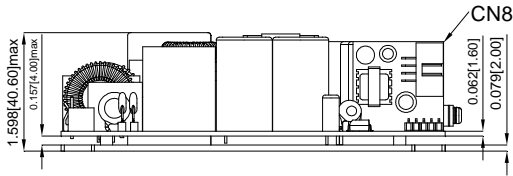
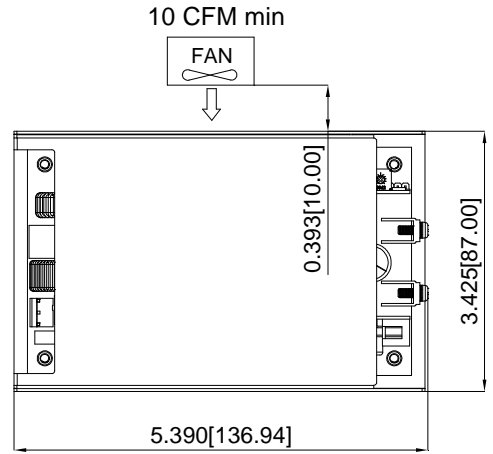
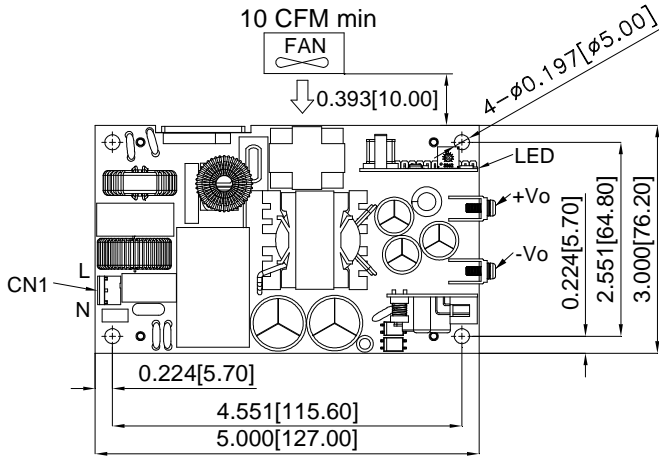
360W With Natural Convection



360W With Baseplate Cooled



All Dimensions in inches[mm]  
 Tolerances : Inches : x.xxx=±0.02  
 Millimeters : x.xx=±0.5



CN8:

PINCONNECTION

PIN	FUNCTION	PIN	FUNCTION
1	+SENSE	8	-SENSE
2	GND	7	ENABLE
3	GND	6	+5VBS
4	FAN output-	5	FAN output+

Note: Pull down Enable to activate PSU

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