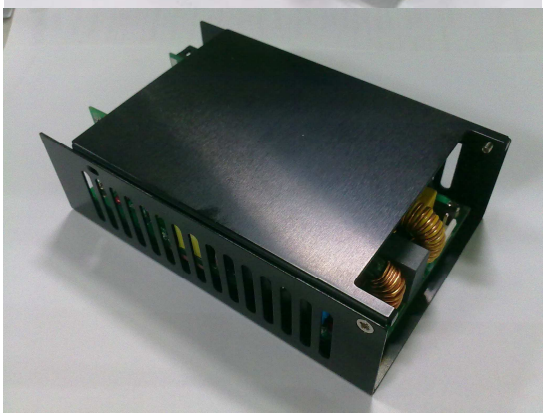
CFM361S SERIES

360 WATT AC-DC POWER SUPPLY WITH PFC

E176177

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 -40~85℃/CFM361SXXXC
* Meets EN60950 and EN55022 Class B
* Active PFC Meets EN61000-3-2
* High Efficiency up to 93.5% Typical
* High Power Density up to 15W/Inch^3/CFM361S
* Remote Voltage Sense
* PS On/Off Remote Control
* +5V Stand-by Output Power
* 12V Fan Output
* Structure Patented



MODEL	VOLTAGE OUTPUT	OUTPUT CURRENT	RIPPLE & NOISE NOTE 1	VOLTAGE ADJ.RANGE	VOLTAGE ACCURACY NOTE 2	LINE REGULATION NOTE 3	LOAD REGULATION NOTE 4	% EFF. NOTE 5
Main Output Voltage								
CFM361S120	+12 V	29.6 A	120 mVp-p	11.4~12.6V	±1.0%	±0.5%	±1%	92.5%
CFM361S240	+24 V	14.8 A	150 mVp-p	22.8~25.2V	±1.0%	±0.5%	±1%	93.5%
CFM361S480	+48 V	7.4 A	150 mVp-p	45.6~50.4V	±1.0%	±0.5%	±1%	93.5%
Stand-by Output Voltage								
All	+5.0 V	0.5	----		----	----	----	
Fan Output Voltage								
All	+12.0 V	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%/℃

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:

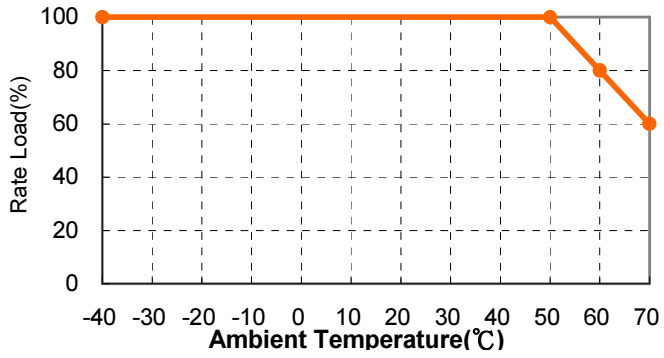
Isolation ..... Input to output = 4242VDC
Operating Temperature ..... see Derating Curve
Storage Temperature ..... -40~85℃
Humidity ..... 93% RH max. Non condensing
Switching Frequency ..... 55KHz Typical
MTBF ..... MIL-HDBK-217F, GB, 25℃/115VAC ..... 100Khrs min.
Altitude 2000m
Dimensions：
Open frame 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:

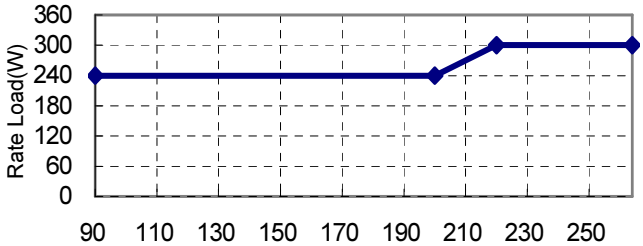
1. Add a 0.1uF ceramic capacitor and a 47uF E.L. capacitor to output for Ripple &Noise measuring @20MHz BW.
2. Voltage accuracy is set at 60% rated load and 25℃Ta.
3. Line regulation is measured from high line to low line with rated load.
4. Load regulation is measured at 60%±40% rated.
5. Typical efficiency at 230Vac and Full Load at 25℃.
6. Power dissipation (Pd): Pd =Pi-Po=Po(1-η)/η
7. Input connectors (CN1) wafer with TAIWAN KING PIN TERMINAL PVHI series and mate with JST housing VHR series or equivalent.
   Output connectors (CN8) wafer with TAIWAN KING PIN TERMINAL PIDC254M1L series and mate with Molex housing 70450 series or equivalent.

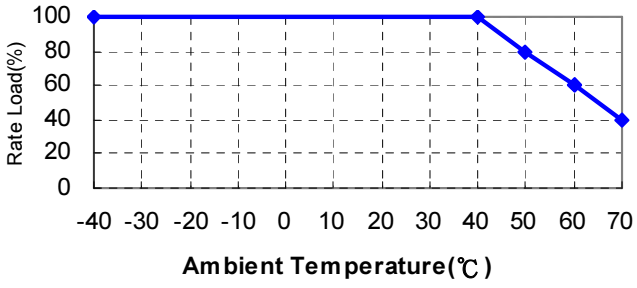
CFM361S Series Derating Curve

360W With 10CFM Air Flow



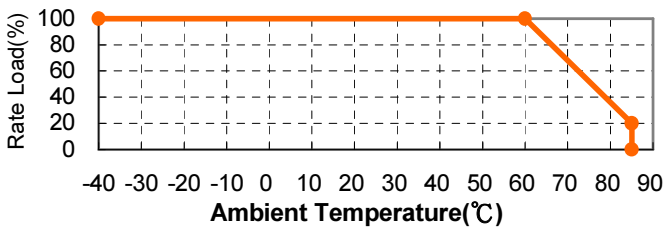
300W With Natural Convection



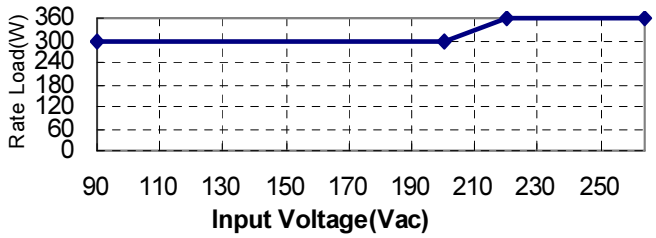


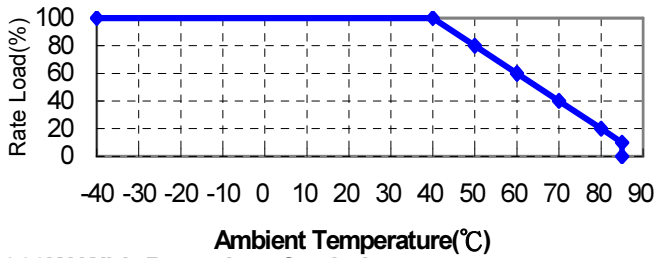
CFM361SXXXC Series Derating Curve

360W With 10CFM Air Flow

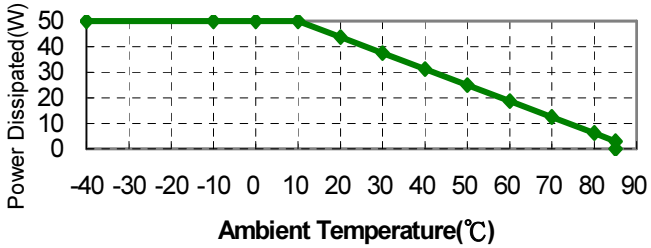


360W With Natural Convection



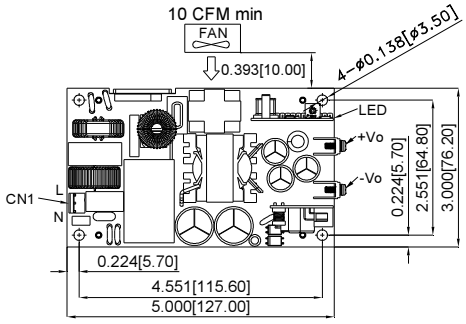


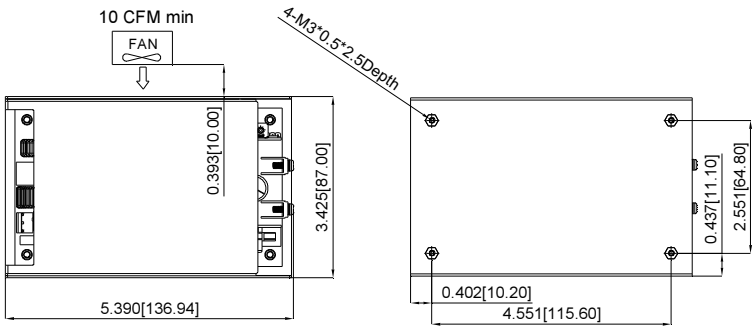
360W With Baseplate Cooled

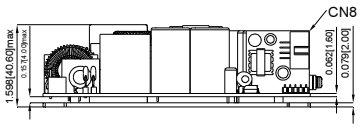


CFM361S Series　　CFM361SXXXC Series

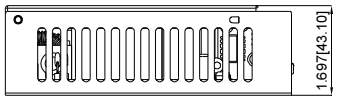
All Dimensions in inches[mm]
Tolerances： Inches：x.xxx=±0.02
Millimeters：x.xx=±0.5







CFM361S



CFM361SXXXC

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

Typical at 25℃, 230Vac and 60% rated load, unless otherwise Specified