



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 -40~85°C/CFM361SXXXC
- * Meets EN55032 Class B
- * Active PFC Meets EN61000-3-2
- * High Efficiency up to 93.5% Typical
- * High Power Density up to 15W/Inch³/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 120~370Vdc
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 max.

SAFETY AND EMC:

Emission and Immunity	EN55032 Class B, FCC Part 15 Class B EN61000-6-3, EN61000-3-2, EN61000-3-3 EN55024, EN61000-6-1, EN61204-3
Safety	IEC/UL 60950-1

GENERAL SPECIFICATIONS:

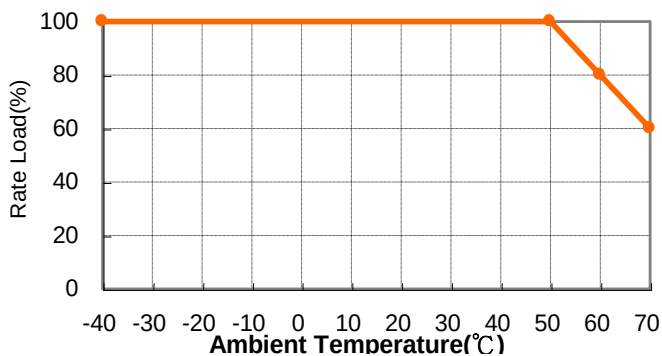
Isolation	Input to Output = 4242VDC
Operating Temperature	See Derating Curve
Storage Temperature	-40~85°C
Humidity	93% RH max. Non Condensing
Switching Frequency	55KHz Typical
MTBF	MIL-HDBK-217F, GB, 25°C/115VAC 100Khrs min.
Altitude	2000m
Dimensions:	
Open Frame Versions	5.000x3.000x1.598 inches (127.00x76.20x40.60mm)
Covered Versions	5.391x3.425x1.697 inches (136.94x87.00x43.10mm)
Weight:	
Open Frame Versions	470g (1.04Pounds)
Covered Versions	550g (1.21Pounds)

NOTE:

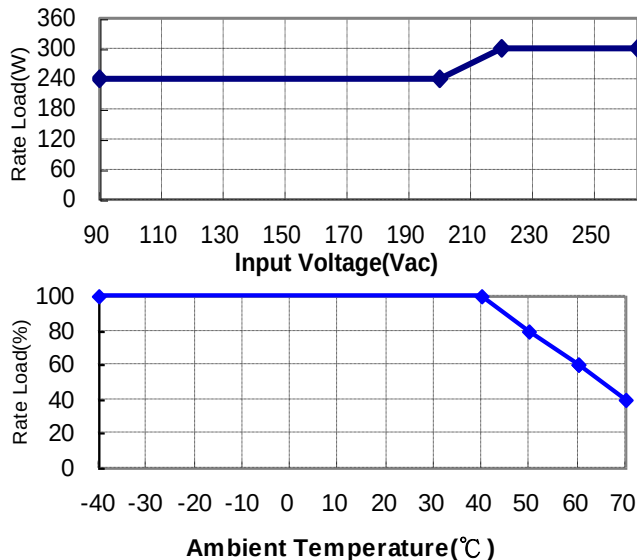
1. Add a 0.1uF ceramic capacitor and a 47uF E.L. capacitor to output for ripple&noise measuring @20MHz BW.
2. Voltage accuracy is set at 60% rated load and 25°C Ta.
3. Line regulation is measured from high line to low line with rated load.
4. Load regulation is measured at 60%±40% rated.
5. Typical efficiency at 230Vac and Full Load at 25°C.
6. Power dissipation (Pd): $Pd = Pi - Po = Po(1-\eta)/\eta$
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

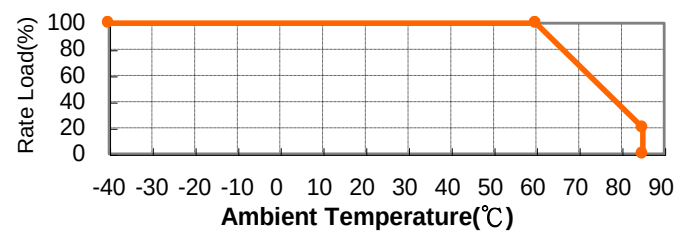


300W With Natural Convection

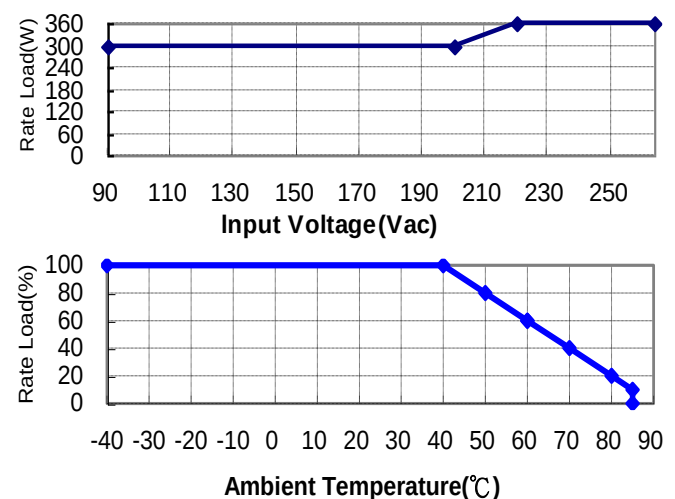


CFM361SXXXC Series Derating Curve

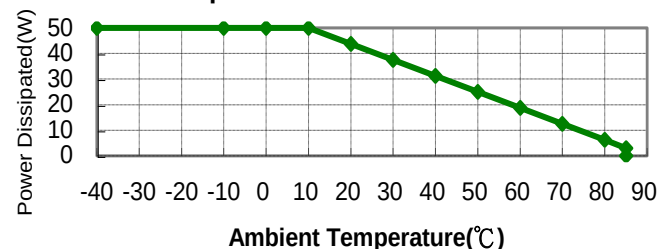
360W With 10CFM Air Flow



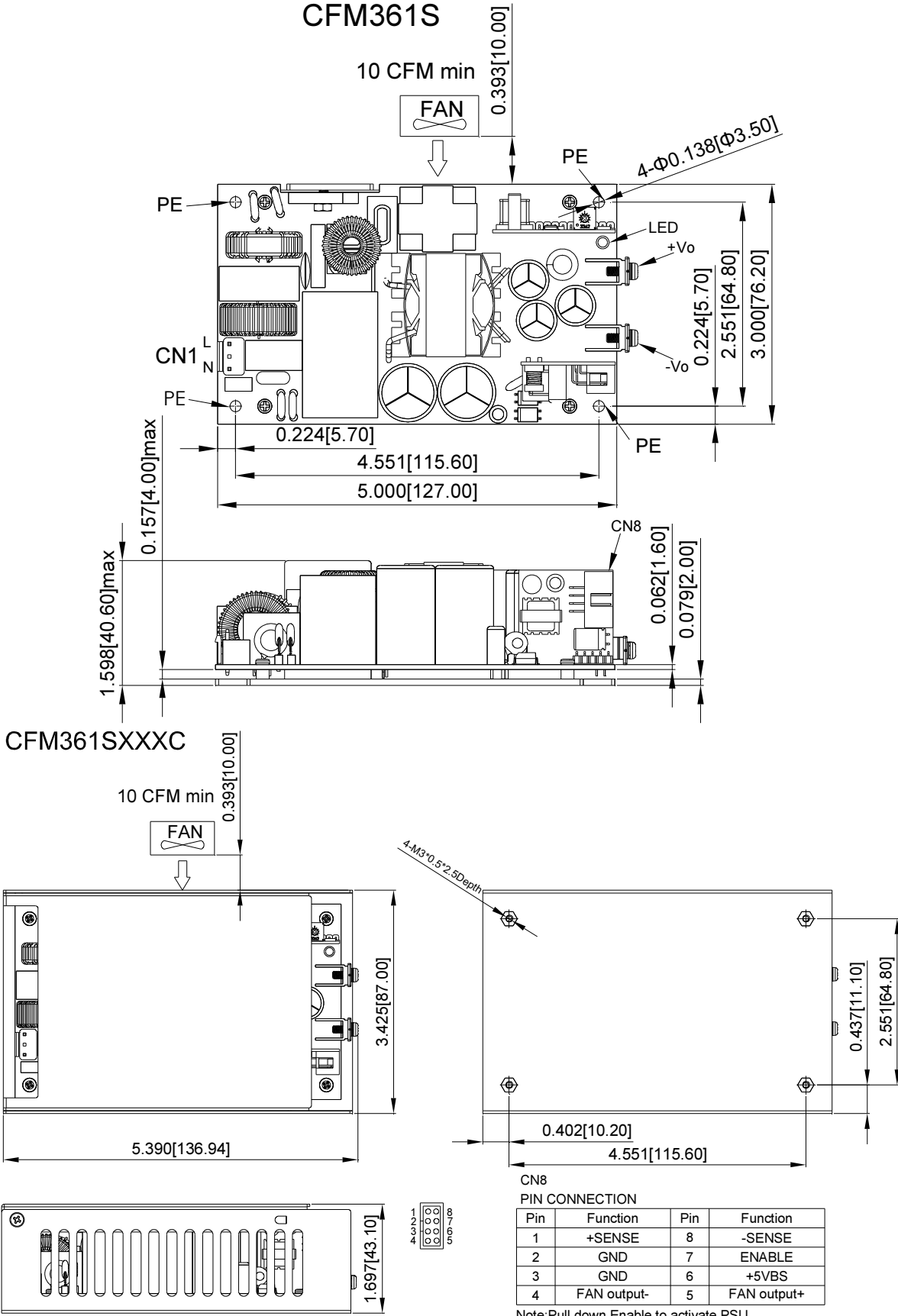
360W With Natural Convection



360W With Baseplate Cooled



Mechanical Specification



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