



A-350FAK Switching Power Supply



◆ Features:

- Fixed switching frequency at 65 KHz
- Forced air cooling by built-in DC fan
- Protection: Short circuit/Overload/Over voltage/Over temp.
- 100% pass aging test
- No load power consumption <0.75W
- 3 years warranty

General Specifications

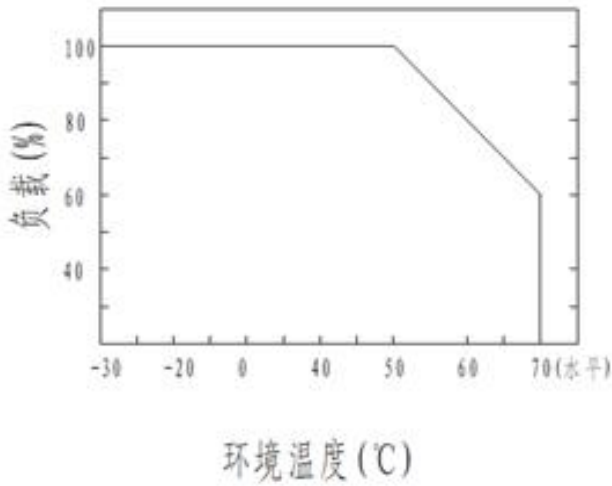
Model No.	A-350FAK-5	A-350FAK-12	A-350FAK-24	A-350FAK-36	A-350FAK-48	
Output	DC voltage	5V	12V	24V	36V	48V
	Rated current	60A	29A	14.6A	9.7A	7.3A
	Current Range	0~60A	0~29A	0~14.6A	0~9.7A	0~7.3A
	Rated power	300W	348W	350W	349W	350W
	Ripple & Noise	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p
	Voltage regulation range	±1%				
	Voltage accuracy	±1.5%				
	Line regulation	±0.5%				
	Load adjustment rate	±1%				
	Rise	1300ms, 50ms/230VAC 1300ms, 50ms/115VAC 100% Load				
Hold up time (Typ)	16ms/230VAC 12ms/115VAC Full Load					
Input	Voltage range	90~132VAC/180~264VAC(by switch) 240~370VDC (switch on 230VAC)				
	Frequency	47~63HZ				
	Efficiency (Typ)	83%	86%	88%	88.5%	89%
	Alternating current	6.8A/115VAC; 3.4A/230VAC				
	Inrush current (Typ)	cold start, 60A/115VAC 60A/230VAC				
	Leakage current	<2mA/240VAC				
Protecti ons	Overload	110~140% of rated output				
	Short circuit	Hiccup mode, auto-recovery				
	Over Voltage	115%-135% rated output voltage, Hiccup mode				
	Over temp.	Hiccup mode, auto-recovery				
Envirom ent	Working temp.	-30℃~+70℃ (refer to output derating curve)				
	Working humidity	20~95%RH non condensing				
	Storage temp.	-40℃~+85℃				
	Storage humidity	10~95%RH non condensing				
	temp. coefficient	±0.03%/℃ (0~50℃)				
	Vibration resistance	10~500Hz, 2G, 10min/cycle, X、Y、Z 60min in each direction				
Safety	Safety standards	Design according to GB4943-2001, UL60950-1				
	withstand voltage	I/P-O/P:3KV AC、I/P-FG: 2KV AC、O/P-FG: 0.5KV AC				
	Isolation Resistance	I/P-O/P、I/P-FG、O/P-FG: 大于100MΩ/500VDC/25℃/70%RH				
	EMC	design refer to GB9254, EN55022 class A				
Others	MTBF	226,400 hours (25℃)				
	Size	215*115*30 (L*W*H)				
	Packing	0.75Kg/pc				
Remarks	<p>*In order to extend the service life, it is recommended to leave 30% more allowance when loading. For example, if the equipment needs 100W power, the power supply should not be less than 130W.</p> <p>*Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.</p>					



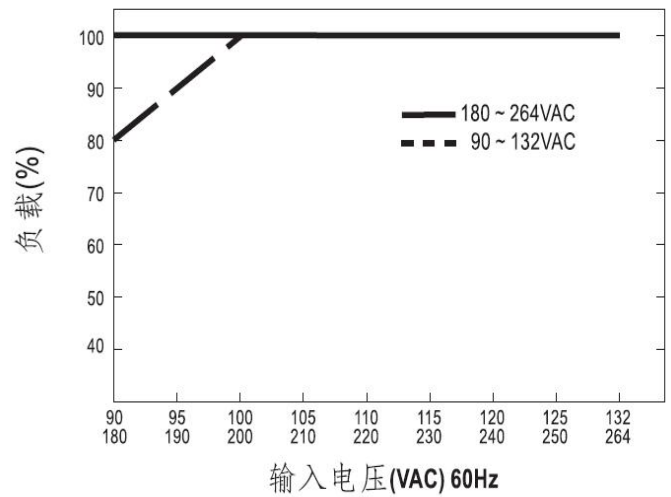
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Load temperature drop curve

■ 负载随环境温度降额曲线:

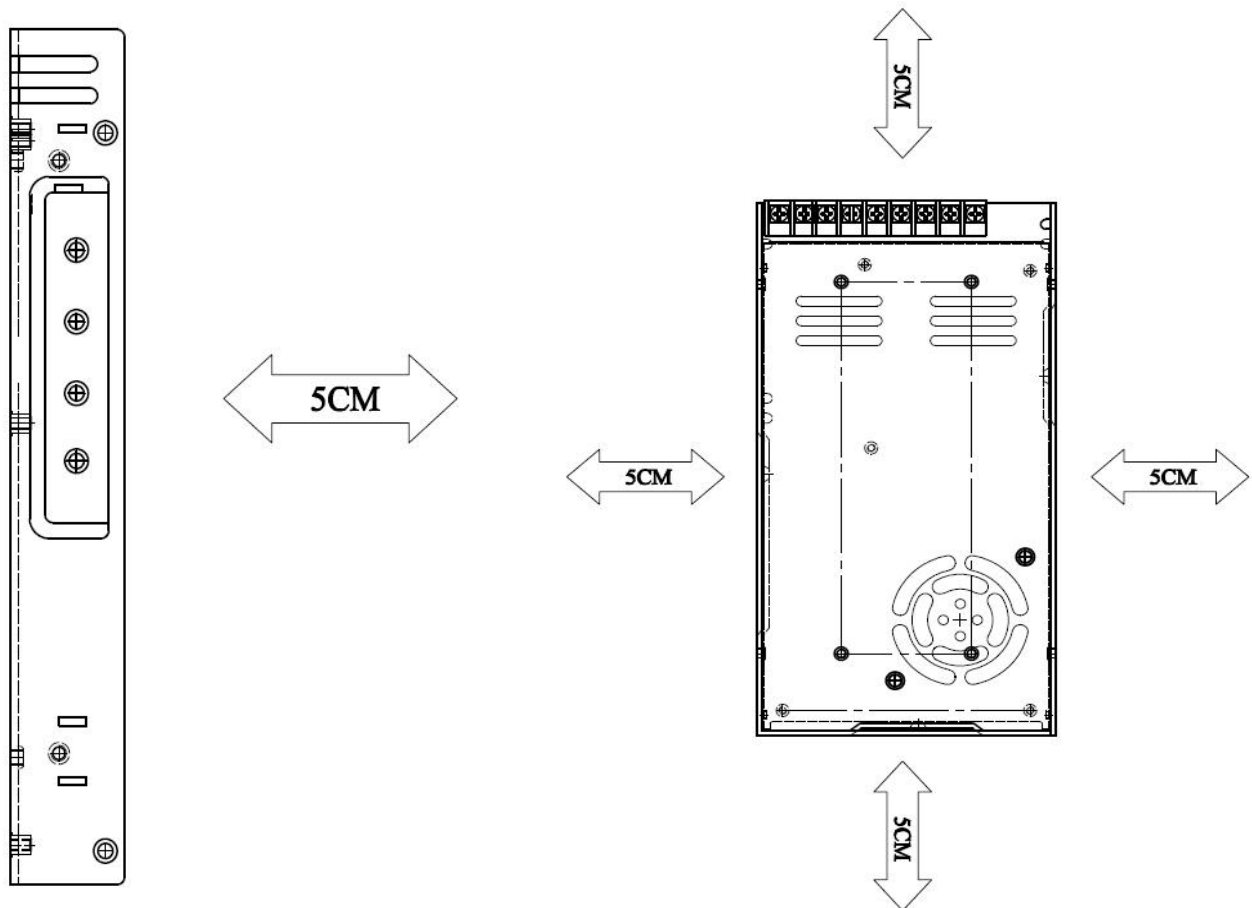


■ 静态特性曲线



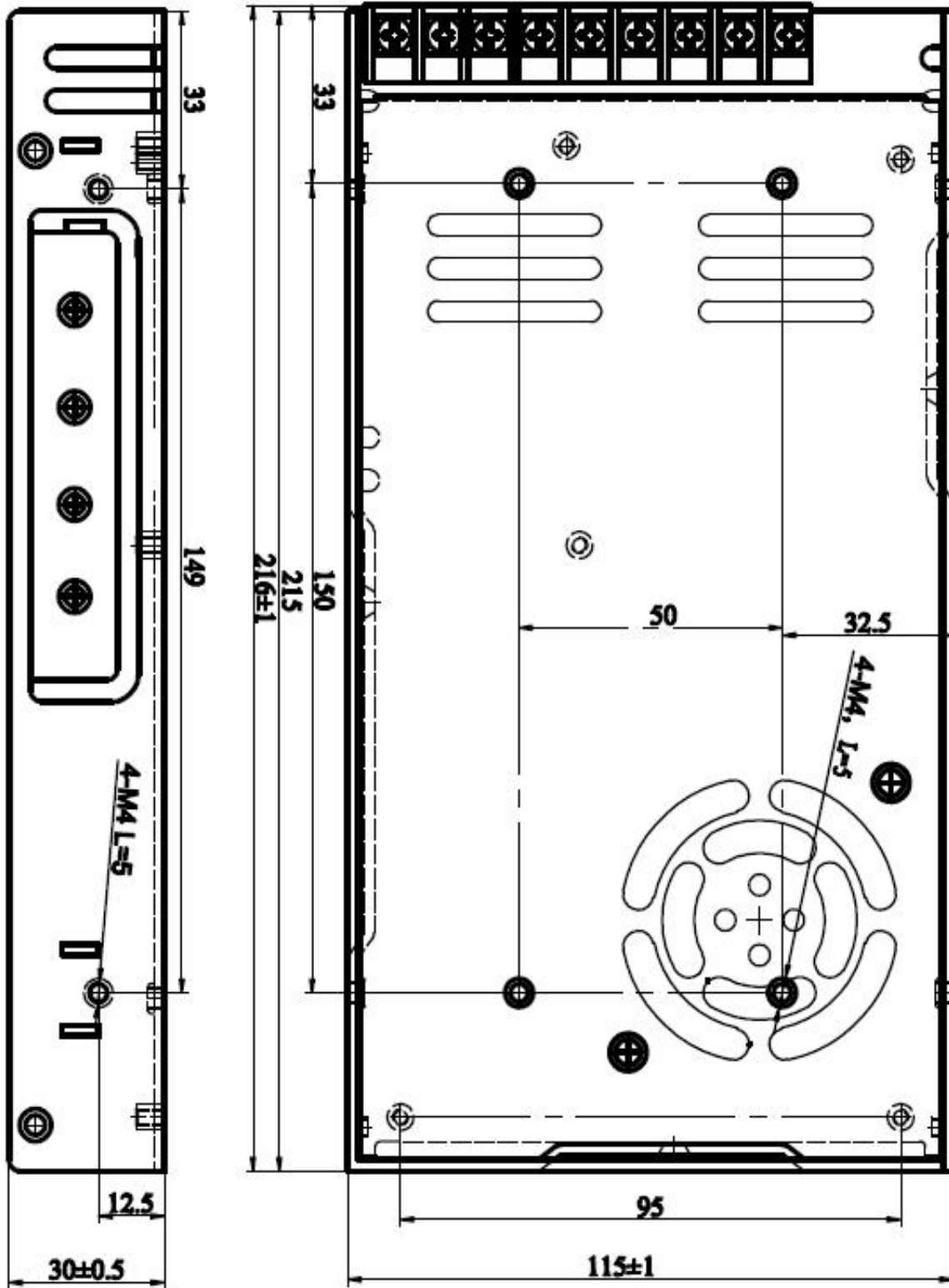
Installation:

- 1、 In order to comply with the reduced amount of curve and static characteristics curve, A-300FAK must be installed in a plate (or the same size above the casing), advice sheet size for 450*450mm*3 for optimizing the thermal performance of aluminum must have a very smooth surface (or coated with thermal paint), and A-350FAK must tightly fitted in the middle of the plate.
- 2、 To ensure good heat dissipation, the power supply must be set aside at least 5cm of space around the installation, as shown in the figure below:





Install drawing



Pin No.	Assignment	Pin No.	Assignment
	FG	-V	DC output (-V)
N	AC/N	+V	DC output (+V)
L	AC/L		