



● **Features**

- ✓ Standard slim product, Height 30mm
- ✓ No load power consumption < 0.5W
- ✓ -30~+70°C working temperature  
(Please refer derating curve for details)
- ✓ Protections: Short circuit/Over load /Over voltage
- ✓ High efficiency with PFC function
- ✓ 2 years warranty

● **Applications:** Industrial control system, mechanical and electrical equipment, electrical instrument, industrial automation, household appliances and etc.

● **Product certification:**



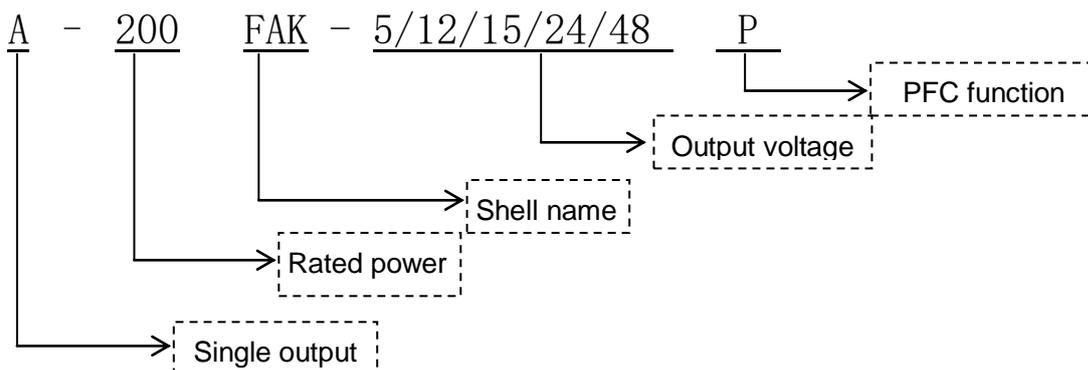
● **Standard reference**

EN55024\EN61000-4-2, 3, 4, 5, 6, 8, 11\GB17625.1\EN61000-3-2, -3\EN55022\GB4943\UL1012

● **Description**

A-200FAK-P serial power supply is 200W single output industrial control constant voltage power supply, voltage input range is 90~264VAC, output voltage is 5V、12V、15V、24V、36V、48V and etc, It applicable for various industrial areas such as industrial control system, mechanical and electrical equipment, electrical instrument, industrial automation, household appliances and etc. This serial product is low power consumption with PFC design, no load power consumption less than 0.5W, it allows the end system to easily meet international energy requirement. High efficiency, compact shell design and good heat exchange guarantee this serial product can long stable working.

● **Product Encoding**



## ● Specification

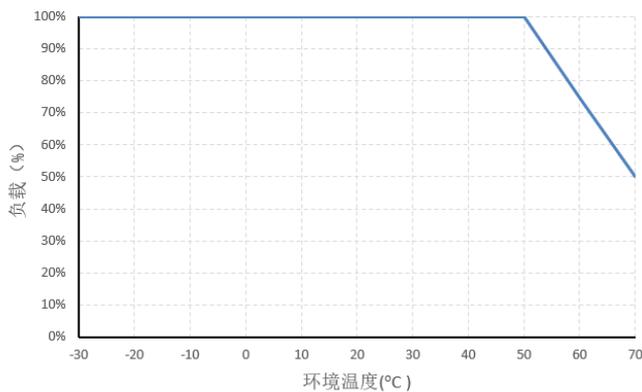
Model	A-200FAK-5P	A-200FAK-12P	A-200FAK-15P	A-200FAK-24P	A-200FAK-36P	A-200FAK-48P	
Input	Voltage range	90~264VAC 或 127~373VDC					
	AC current	230VAC/1.1A、115VAC/2.2A					
	Efficiency	≥86%	≥87%	≥88%	≥89%	≥90%	≥90%
	Frequency rang	47~63HZ					
	Leakage current	<1mA/240VAC					
	Inrush current	Cold start70A/230VAC					
	Power factor	PF≥0.96					
Output	DC voltage	5V	12V	15V	24V	36V	48V
	Rated current	37A	16.7A	13.4A	8.35A	5.6A	4.3A
	Power	185W	200.4W	200.1W	200.4W	201.6W	206.4W
	Voltage adjustment range	4.5~5.5V	10.8~13.2V	13.5~16.5V	21.6~26.4V	32.4~39.6V	43.2~52.8V
	Ripple & noise	150mVp-p	150mVp-p	200mVp-p	240mVp-p	300mVp-p	400mVp-p
	Setup, rise time	1500ms, 50ms/ (230VAC/115VAC) load 100%					
	Keep time	8ms/ (230VAC/115VAC) load 100%					
	Line regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Load regulation	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%
	Voltage tolerance	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
EMC	EMC emission	Design refer to :EN55024 ;EN61000-4-2, 3, 4, 5, 6, 8, 11					
	Harmonic current	Design refer to :GB17625.1;EN61000-3-2,-3 Value limited					
	EMC Index	Design refer to:EN55022, Class A					
Safety	Safety standard	Design refer to:GB4943/UL1012					
	Withstand voltage	Input—Output I/P-O/P:3KVac/10mA; Input---Shell I/P-CASE:1.5KVac/10mA; Output---shell O/P-CASE:0.5KVAC/10mA each item test time :lmin					
	Isolation resistance	I/P-O/P:100M ohms; I/P-Case:100M ohms; O/P-Case:100M ohms					
Protection	Over voltage	5.75~6.9V	13.8~16.2V	18.75~21.75V	28.8~33.6V	41.4~48.6V	55.2~64.8V
		Limited voltage mode					
	Over load	105~175% rated Hiccup mode, recover automatically after overload removed					
	Over temperature	Shut down output voltage, automatically recover after cooling					
	Short circuit	Hiccup mode or self lock, recover automatically after short circuit removed.					
Environment	Working temperature & humidity	-30~70℃ 20%~95%RH non condensing (please refer derating curve)					
	Storage temperature	-30℃~80℃; 10%~95%RH non condensing					
	Vibration	Frequency range 10 ~ 500Hz, Acceleration 2G, each sweep frequency cycle10min., each along X,Y, Z axes 6 sweep frequency cycle					
	Shock	Acceleration 20G, duration 11ms, 3 shocks along X,Y, Z axes.					
	Altitude height	2000mtrs (Above 2000m, rise 100m, Environment temperature decrease 0.6℃)					
Reliability	MTBF	Under 25℃ environment :250000Hrs, MIL-217 Method					

Other requirement	Dimension	215*115*30 mm (L*W*H)
	Packing	0.63Kg/pc, 20pcs/carton, 13KG/carton
	Way of cooling	<input checked="" type="checkbox"/> self cooling <input type="checkbox"/> forced air cooling
	Extension modes	<input type="checkbox"/> Double three proofing <input type="checkbox"/> With cover <input type="checkbox"/> Low temperature set up (-40℃) <input type="checkbox"/> Other
Remark	* In order prolong lifetime , it is recommend to leave 30% more allowance when configuration load. For example: equipment need 100W, the power supply should not less than 130W. * The way of test switching power supply ripple : Use 20MHz oscilloscope in power output terminal test, oscilloscope probe wire length is not more than 12mm, and input parallel 47uF electrolytic capacitors and 0.1uF high frequency capacitance probe. *All electrical performance test under 25℃environment . *Power is the part of equipment system component, all EMC test need assembly sample on the metal plate, power need connect end equipment to process EMC confirm.	

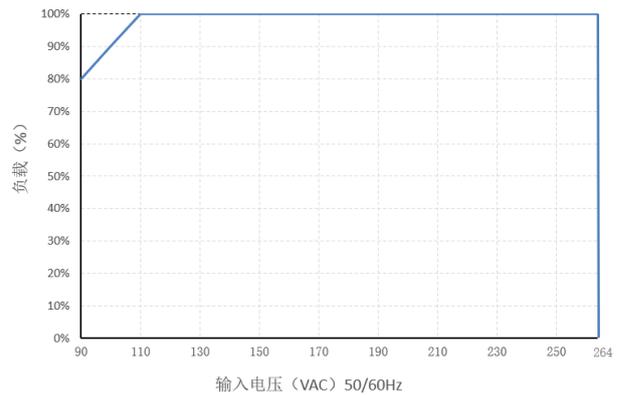
● Output load and temperature curve

● Static characteristics curve

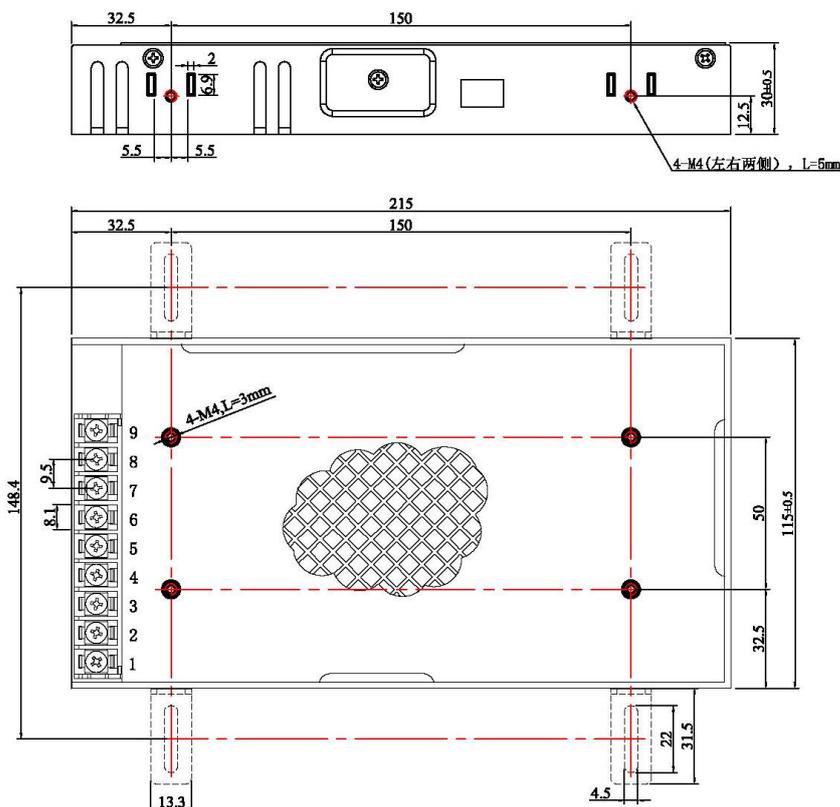
负载VS环境温度



负载VS输入电压



● Mechanical specification



注:  
虚线处安装支架为可选配件!

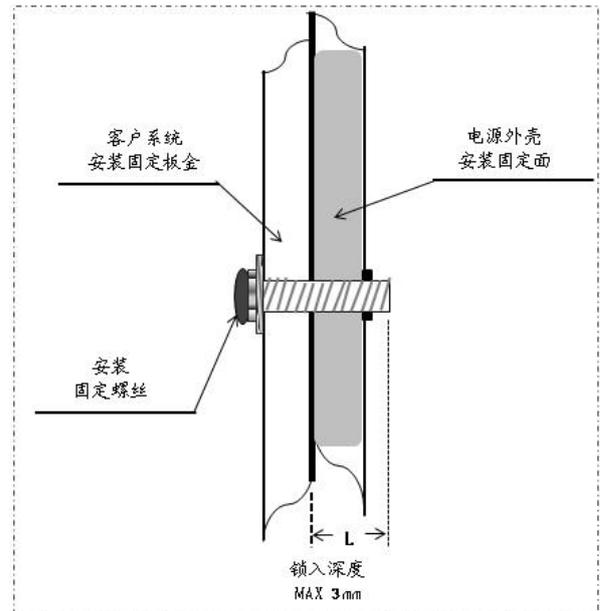
端子脚位定义

引脚编号	引脚功能
1	AC/L
2	AC/N
3	FG ⊕
4	DC OUTPUT -V
5	DC OUTPUT -V
6	DC OUTPUT -V
7	DC OUTPUT +V
8	DC OUTPUT +V
9	DC OUTPUT +V

● Way of installation

**Warning**

- Use install screw M3\*6mm,
- Shell screw height MAX 3mm,
- Please refer to right drawing



**Product installation and instruction**

1. When installing, please install according to instruction of installation
2. Please check and proofread each connecting terminal, make sure input and output, AC and DC, positive and negative, voltage value and current value are correct to avoid damage power supply and user equipment before finish installation and connect electricity.
3. Please use multimeter measure live wire, null wire and ground wire whether short circuit, when connect electricity please no load set up.
4. In order not avoid power supply reliability, Please do not exceed the power supply nominal value when using, if need to change power supply output parameter, please kindly contact with our technical department to make sure use effective and reliability.
5. To ensure safety and interference, please make sure ground end grounding(grounding wire >AWG18#).
6. If the power supply fails, please do not repair it without authorization, please contact our service department ASAP, customer service line: 86-519-85215050

● Transport and storage

1. Transport:

This package applicable for truck, ship, air plane, train and etc, it should be rainproof and handled civilly during transporting.

2. Storage:

The product should put into packing carton before use, storage environment temperature and humidity should meet product requirement, warehouse should not have corrosive air or product and no strong mechanical vibrating, shock and strong magnetic field. Packing carton should at least leave 20cm higher from the ground, do not allow water immersion. If storage time more than one year, it should be re-examined by professional people before use.