



● **Features**

- ✓ Standard slim product, Height 30mm
- ✓ No load power consumption<1W
- ✓ -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:**



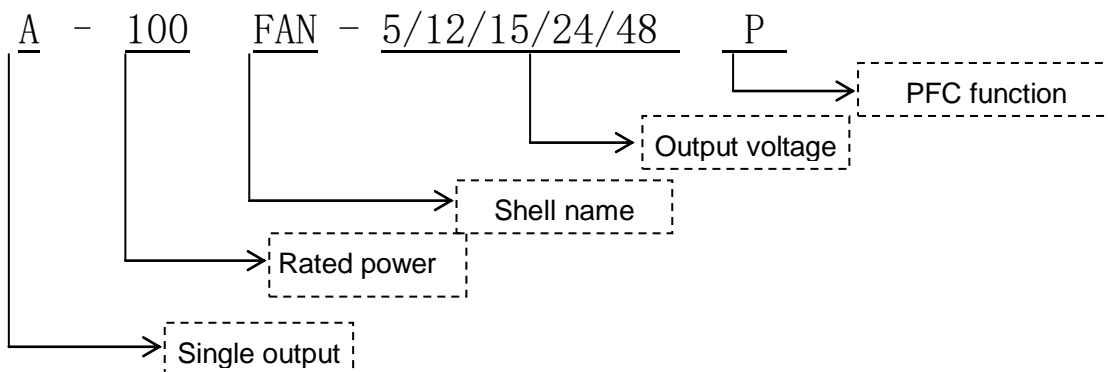
● **Standard reference**

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

● **产品描述**

A-100FAN-P serial power supply is 100W 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 1W, 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**



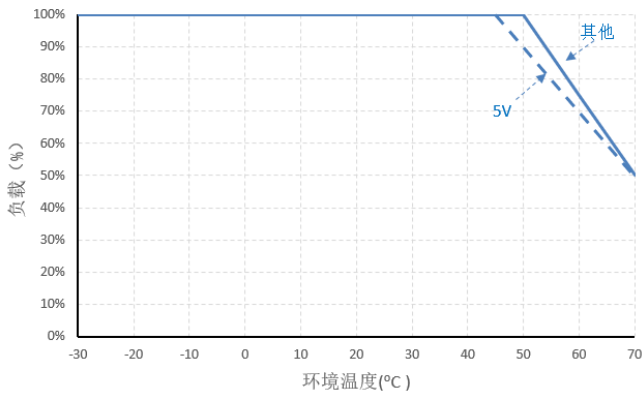
## ● Specification

Model	A-100FAN-5P	A-100FAN-12P	A-100FAN-15P	A-100FAN-24P	A-100FAN-36P	A-100FAN-48P	
<b>Input</b>	Voltage range	90~264VAC					
	AC current	220VAC/0.6A					
		110VAC/1.2A					
	Efficiency	≥86%	≥87.5%	≥88%	≥88%	≥89%	≥89%
	Frequency range	47~63HZ					
	Leakage current	<0.75mA/240VAC					
	Inrush current	Cold start 50A/230VAC					
Power factor	PF≥0.9						
<b>Output</b>	DC voltage	5V	12V	15V	24V	36V	48V
	Rated current	19.6A	8.5A	6.7A	4.2A	2.8A	2.1A
	Power	100W	100.8W	100.8W	100.8W	100.8W	100.8W
	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	120mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p
	Setup, rise time	500ms, 30ms/220VAC Load 100%					
	Keep time	30ms/220VAC Load 100%					
	Line regulation	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	Load regulation	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	Voltage tolerance	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
<b>EMC</b>	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 B					
<b>Safety</b>	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:50M ohms; I/P—Case:50M ohms; O/P—Case:50M ohms					
<b>Protection</b>	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
		Shut down output voltage, re-power to recover					
	Over load	110~150% rated Hiccup mode, recover automatically after over load removed					
	Over temperature	/					
Short circuit	Power protection after output end short circuit, remove short circuit automatically recover.						
<b>Environment</b>	Working temperature & humidity	-30~70℃ 20~95%RH non condensing (Refer to Derating Curve)					
	Storage temperature	-30℃~80℃; 10~95%RH non condensing					
	Vibration	Frequency range 10 ~ 500Hz, Acceleration 2G, each sweep frequency cycle 10min., along X, Y, Z axes 6 sweep frequency cycle					
	Shock	Acceleration 20G, keep time 11ms, along X, Y, Z axes 3 shocks					
	Altitude height	2000mtrs (Above 2000m, rise 100m, Environment temperature decrease 0.6℃)					
<b>Reliability</b>	MTBF	Under 25℃ environment:250000Hrs, MIL-217 Method					

Other requirement	Dimension	129*97*30 (L*W*G)
	Packing	0.4Kg/pc, 40pcs/carton, 16KG/carton
	Way of cooling	<input checked="" type="checkbox"/> self-cooling <input type="checkbox"/> forced air cooling
	Extend modes	<input type="checkbox"/> Double three proofing <input type="checkbox"/> With cover <input type="checkbox"/> Low temperature set up (-40°C) <input type="checkbox"/> other
Remark	<p>* 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.</p> <p>* 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.</p> <p>*All electrical performance test under 25°Cenvironment .</p> <p>*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.</p>	

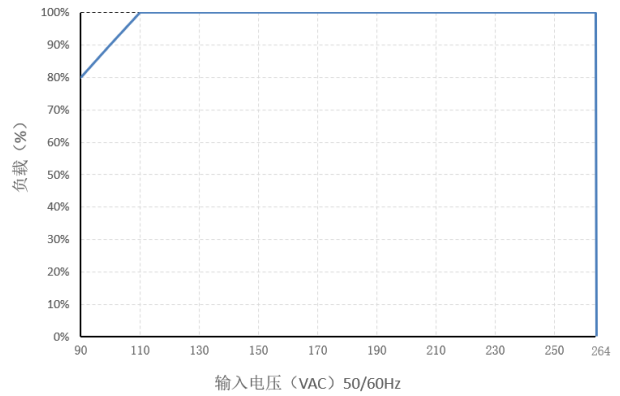
● Output load and temperature curve

负载VS环境温度

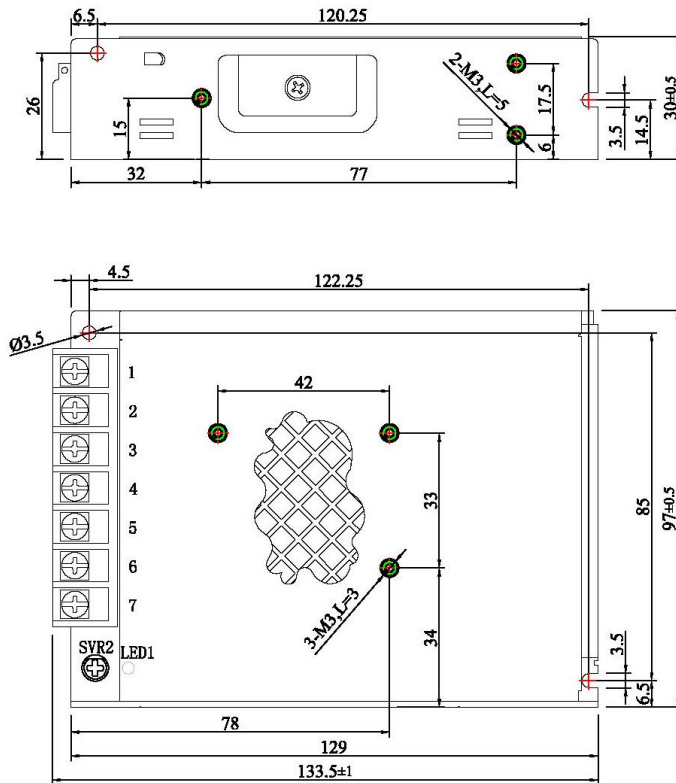


● Static characteristics curve

负载VS输入电压



● Mechanical specification



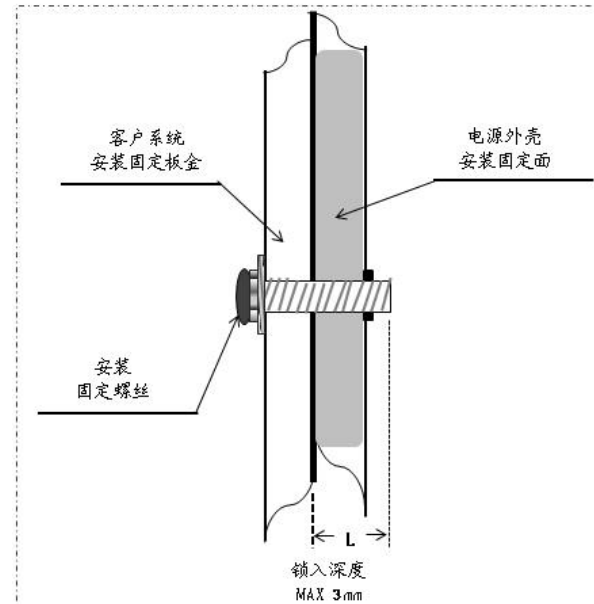
端子脚位定义

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

## ● 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.