

● Features

- ✓ Standard slim product,height is 30mm
- ✓ -30~+70°C working temperature (refer to derating curve)
- ✓ Protections: short circuit / overload /over voltage
- ✓ Free air cooling
- ✓ 100% pass aging test
- ✓ 3 years warranty

● Application:

Industrial control system,machinery and electrical equipment, electronic instruments, industrial automation, household appliances, etc

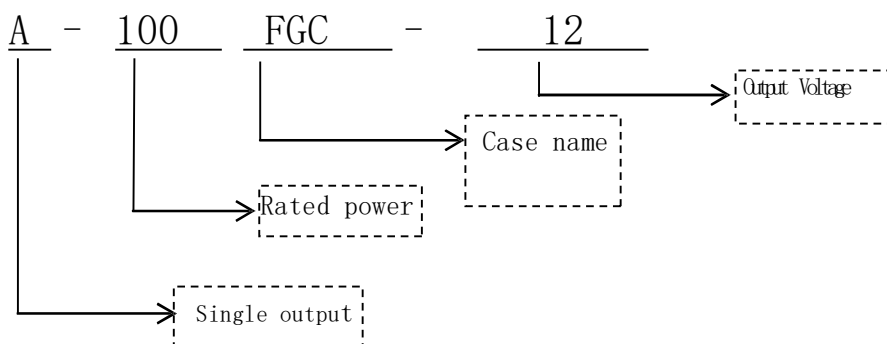
● Standards:

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

● Product description

A-100FGC Series is a 100W single output constant voltage output industrial control power supply, with input range of 90 ~ 264vac, output voltage of 12V, 15V, 24V, 36V, 48V, etc., which can be applied to industrial control system, mechanical and electrical equipment, electronic instruments, industrial automation, household appliances and other industrial fields. Super high efficiency, compact shell design and good heat dissipation ensure the long-term stable work of this series.

● Product Name:

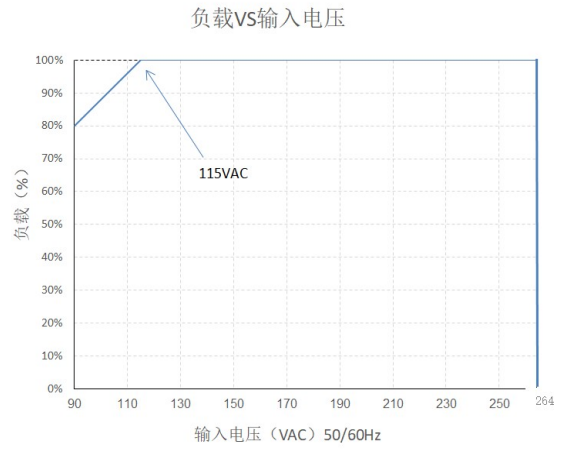
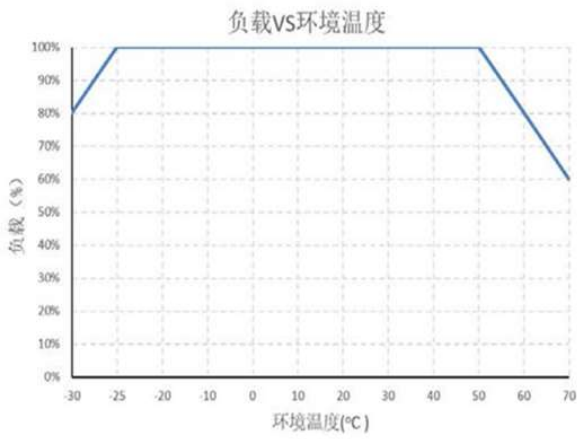


**● Specification**

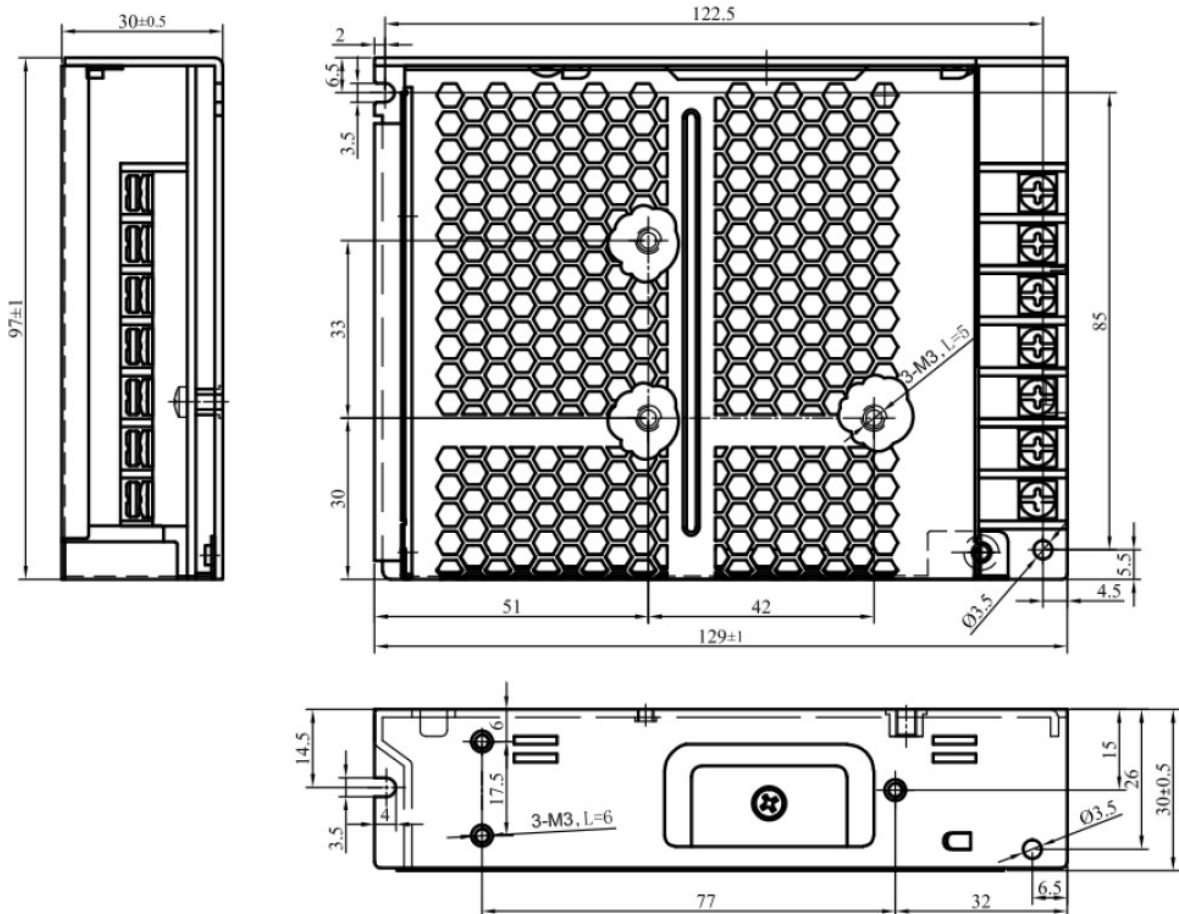
Model	A-100FGC-5	A-100FGC-12	A-100FGC-15	A-100FGC-24	A-100FGC-36	A-100FGC-48	
<b>Input</b>	Voltage range	90~264VAC					
	Input current	230VAC/1.2A					
		115VAC/1.9A					
	Efficiency	≥83%	≥85%	≥85%	≥85%	≥86%	≥86%
	Frequency range	47~63HZ					
	Leakage current	<1mA/240VAC					
Inrush current	COLD START 60A/230VAC						
<b>Output</b>	DC voltage	5V	12V	15V	24V	36V	48V
	Rated current	16A	8.4A	6.7A	4.2A	2.8A	2.2A
	Power	80W	100.8W	100.5W	100.8W	100.8W	105.6W
	Voltage	4.5~5.5V	10.8~13.2V	13.5~16.5V	21.6~26.4V	33~39V	44~52V
	Ripple and noise	100mVp-p	120mVp-p	120mVp-p	150mVp-p	200mVp-p	200mVp-p
	Set up, rise time	2500ms, 30ms/230VAC 100% loading					
	Hold up time	20ms/230VAC 100% loading					
	Line regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Load regulation	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	Output Voltage	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
<b>EMC</b>	EMS	Design refer to:EN55024 ;EN61000-4-2, 3, 4, 5, 6, 8, 11					
	Harmonic	Design refer to:GB17625.1;EN61000-3-2, -3					
	EMC	Design refer to:EN55022					
<b>Safety</b>	Safety standard	Design refer:GB4943/UL1012					
	Withstand voltage	I/P-O/P:3KVac/5mA;I/P-CASE:1.5KVac/5mA; O/P-CASE:0.5KVAC/5mA 1min for each test					
	Isolation	I/P-O/P:100M ohms; I/P-Case:100M ohms; O/P-Case:50M ohms					
<b>Protection</b>	Over voltage	5.75~6.5V	13.5~16V	16.8~19.5V	27~32V	40~48V	53~60V
		Voltage limited					
	Over load	110~160% rated Hiccup mode,auto-recovery after fault condition removed					
	Over	/					
Short circuit	Hiccup mode,auto-recovery after fault condition removed						
<b>Environment</b>	Working	-30~70°C 20%~95%RH no condensing (refer to derating curve)					
	Storage	-40°C~85°C 10%~95%RH no condensing					
	Vibration	10~500Hz,2G, 10min/1 cycle,60min.each along X,Y, Z axes six sweep cycles					
	Impact	20G,last 11mS, 3 impacts along X, y and Z axes					
	Altitude	the ambient temperature derating of 0.6 °C/100m for operating altitude higher than 2000m					
<b>Reliability</b>	MTBF	Under 25°C:250000Hrs, MIL-217 Method					
<b>Others</b>	SIZE	129*97*30 (L*W*H)					
	Packing	0.35Kg/piece, 40 pcs/ctn, 15KG/ctn					
	Cooling mode	<input checked="" type="checkbox"/> Free air cooling <input type="checkbox"/> Fan					
	Extension mode	PCB double side conformal coating <input checked="" type="checkbox"/> block with cover low temp start (-40°C) Other					
<b>Note</b>	*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, please choose the power supply over 130W. *Ripple&noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. *All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. *the auxiliary heat dissipation of aluminum plate with an area of 400 * 400 * 3mm must be used when full load working. *The power supply is considered a component which will be installed into a final equipment.The final equipment must be re-confirmed that it still meets EMC directives.All our EMC tests are carried out by mounting samples on metal plates.						

∞ Load and temperature curve

∞ Static characteristic curve



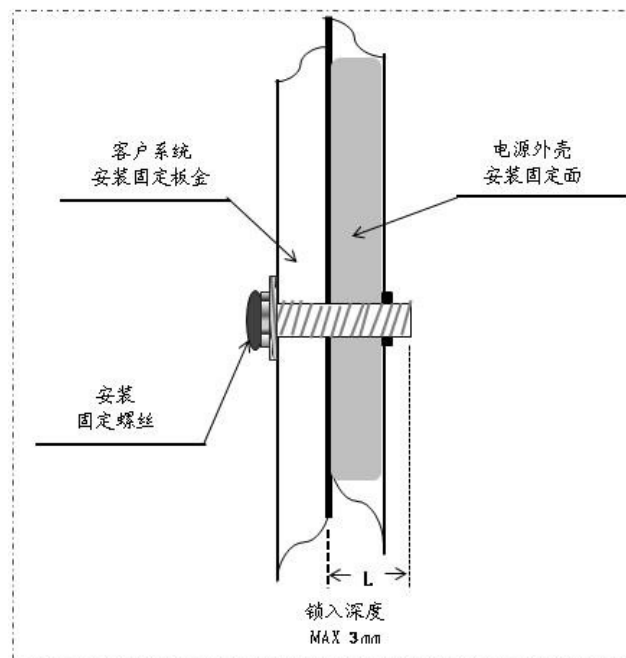
● Drawing



## ● Installation

### Warning

- Use mounting screws by M3\*6mm,
- Max depth of screws into housing is 3mm,
- Right picture with more details.



## ● Use instructions:

- 1、 please follow the installation instructions when use the power supply.
- 2、 Before power on test run after installation, please check and proofread the wiring on each terminal, make sure that the input and output, AC and DC, positive and negative, voltage and current values are correct, prevent the occurrence of wrong connection, and avoid damaging the power supply and user equipment.
- 3、 Before power on, please use a multimeter to measure whether the live wire, zero wire and ground wire are short circuited, and whether the output terminal is short circuited; it is better to start without load when power on.
- 4、 Do not exceed the nominal value of the power supply when using, so as not to affect the reliability of the product. If you need to change the output parameters of the power supply, please consult our technical department before using.
- 5、 In order to ensure the safety of use and reduce interference, please ensure that the grounding terminal is reliably grounded (ground wire please thicker than AWG18#) .
- 6、 If the power supply fails, please do not repair it without permission. Please contact our customer service department as soon as possible, customer service line: 86-519-85215050.

## ● Transport、 storage:

### 1、 Transport:

The package is suitable for shipping by automobiles, ships, airs, trains, etc. During transportation, it shall be rain proof, loaded and unloaded gently.

### 2、 Storage:

When the product is not in use, it shall be placed in the packing box. The storage environment temperature and relative humidity shall meet the requirements of the product. No corrosive gas or product in the warehouse, and no strong mechanical vibration, impact and strong magnetic field. The packing box shall be padded at least 20cm above the ground, and not be soaked. If the storage time is too long (more than 1 year), it shall be rechecked by professionals before use.