



● Features

- ✓ Slim size,height 30mm
- ✓ Built-in active PFC function,PF>95%
- ✓ -30~+70°C working temperature
- ✓ Short circuit/Over load/Over voltage/Over temperature
- ✓ High efficiency with PFC
- ✓ Remote control switch(optional)
- ✓ 3 year warranty

● **Product Application:** Industrial control system,mechanical and electrical equipment, electronic instruments, industrial automation, etc.

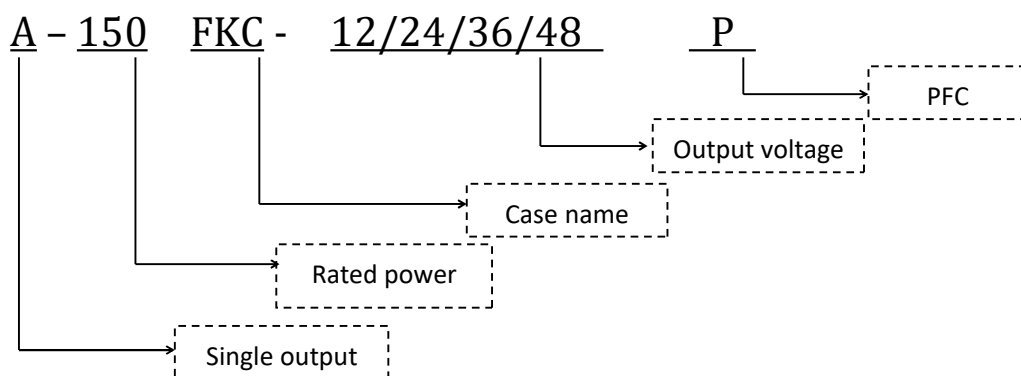
● Standards:

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

● Product Description

A-150FKC-XP series is an industrial control power supply with 150w single channel constant-voltage output. The input voltage range is 90-264 VAC, and the output voltage is 12v, 24v,36v,48v etc. Built in output on/off control and output remote voltage compensation function. It can be applied to various industrial fields such as industrial control system, mechanical and electrical equipment, electronic instruments, industrial automation, etc. The ultra-high efficiency, compact profile design, good heat dissipation, guarantee the long-term stable work of this series of products.

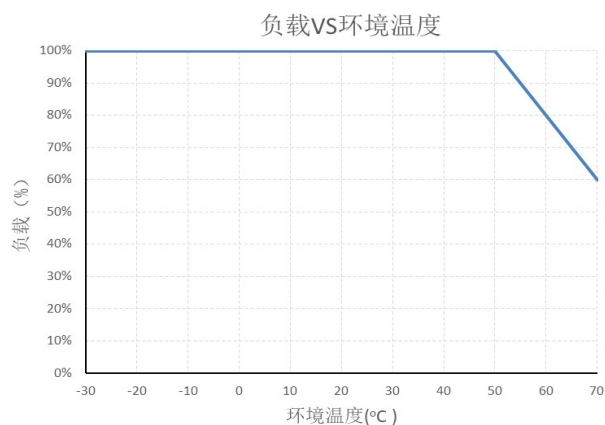
● Product name



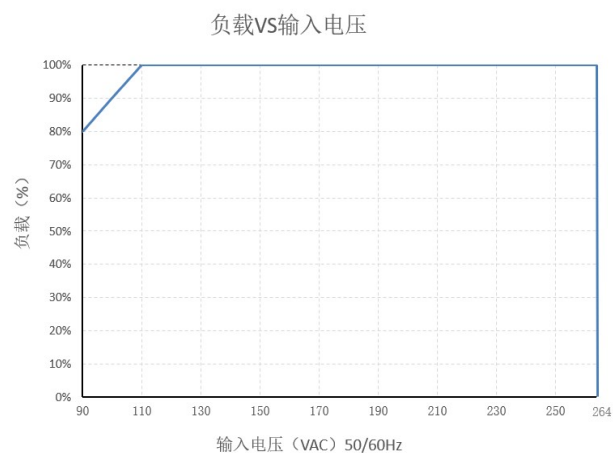
● **Electrical parameters**

Model		A-150FKC-12P	A-150FKC-24P
Input	Voltage range	90~264VAC	
	AC input	230VAC/0.8A、115VAC/1.6A	
	Efficiency	≥88%	
	Frequency range	47~63HZ	
	Leakage current	<2mA/240VAC	
	Inrush current	Cold start 60A/230VAC	
	PFC	PF≥0.95	
Output	DC voltage	12V	24V
	Rated current	12.6A	6.3A
	Power	151.2W	151.2W
	Voltage adjust range	11.4~13.2V	22.8~26.4V
	Ripple and noise	150mVp-p	
	Set up, rise time	2500ms, 30ms/220VAC, load 100%; 3000ms, 50ms/110VAC, load 100%	
	Hold up time	16ms/（115VAC/230VAC）load 100%	
	Line regulation	±0.5%	
	Load regulation	±0.5%	
	Output Voltage accuracy	±1.0%	
EMC	EMS	Design refer to:EN55024 ;EN61000-4-2,3,4,5,6,8,11	
	Harmonic	Design refer to:GB17625.1;EN61000-3-2,-3 limited requirements	
	EMC	Design refer to:EN55032, Class B	
Safety	Safety	Design refer to:GB4943/UL62368-1	
	Withstand voltage	I/P-O/P:3KVac/10mA;I/P-CASE:1.5KVac/10mA;O/P-CASE:0.5KVAC/10mA Each testing time:1min	
	Insulation	I/P-O/P:100M ohms; I/P-Case:100M ohms; O/P-Case:100M ohms	
Protections	Over voltage (10%loading)	13.2~16.2V	26.4~32.4V
		Shut down output voltage; recovers automatically after temperature decreases	
	Over load	110~150% rated current, Hiccup mode, recovers automatically after fault condition is removed	
	Over temperature	Shut down output voltage; recovers automatically after temperature decreases	
	Short circuit	Hiccup mode, recovers automatically after fault condition is removed	
Function	Remote control	CN1: <0~0.8VDC power on,4~10VDC power off	
Environment	Working	-30~70℃ 20%~95%RH non-condensing (Refer to Derating Curve)	
	Storage	-40℃~80℃; 10%~95%RH non-condensing	
	Vibration	10~500Hz,2G, 10min/1 cycle,60min.each along X,Y,Z axes	
	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	
Reliability	MTBF	25℃:250000Hrs, MIL-217 Method	
Other requirements	Size	199*99*30 (L*W*H)	
	Weight	0.6Kg/pcs	
	Cooling method	☒ Free air convection ☐ Fan	
	More options	☒ PCB double side conformal coating ☒ Terminal with cover ☒ low temp start (-40℃) ☒ Other	
Notes	*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℃ 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.		

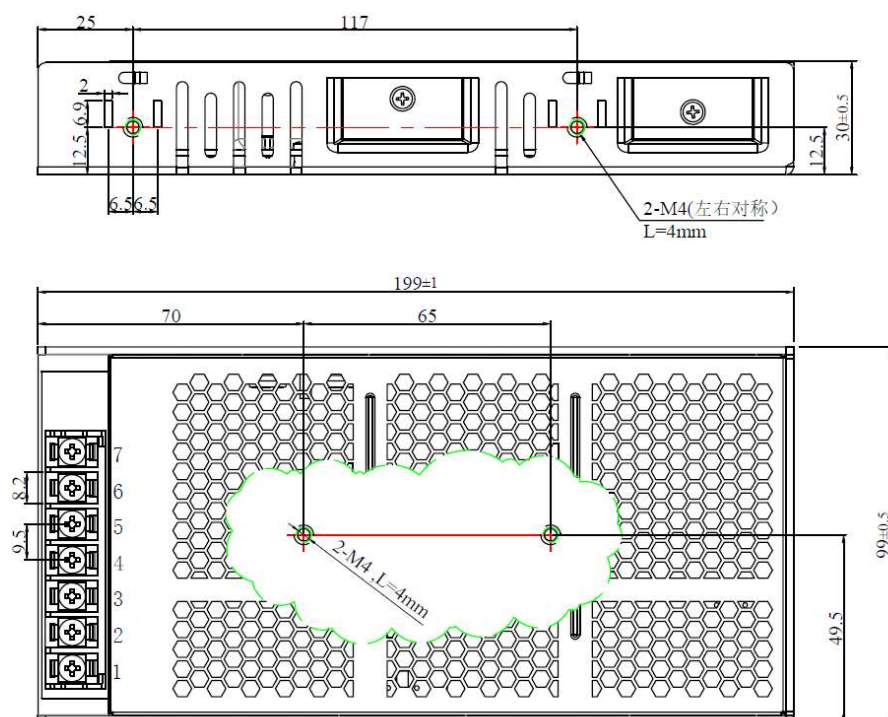
● Load and Temperature curve



● Static characteristic curve



● Drawing size



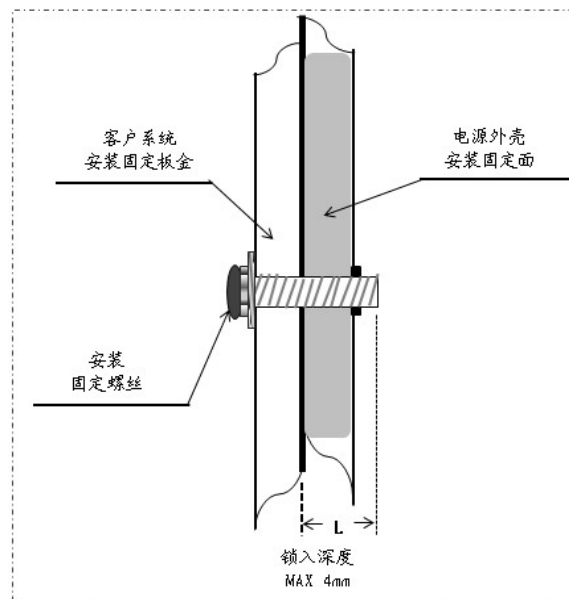
端子脚位定义

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

● Installation method

Warning

- Use mounting screws by M3*6mm,
- Max depth of screws into housing is 4mm,
- Right picture with more details.



● 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.