

# **Specification**

Project NO.	PYW000257-18033	Model.	AFOU-5D5+3.3-86PR03
Rev. S01		Engineer.	Huang Tujun

Prepared	Date	
Checked	Date	
Approved	Date	

Change Reason and content:		
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### **■Feature:**

- Global voltage input (90VAC ~ 264 VAC)
- At the same time can provide two DC output, suitable for 86 box system use
- Meet the safety design requirements
- Small size, modular insert
- Ultra-wide operating temperature range (- $10^{\circ}$ C  $\sim 50^{\circ}$ C)
- Comprehensive protection: short circuit/overload/overvoltage
- Warranty for 2 years

## **■**Specifications



## ★ Picture for reference

Product name note 1		AFOU-5D5+3.3-86PR03			
		Dc output parameter			
	Rated output voltage	V1: 5.0V		V2: 3.3V	
	Rated output current	0.6A(含3.3V 站	岩的 0.25A)	0.25A	
	Rated output current range	0~0.6A(含 3.3V 端的 0.25A)		0~0.25A	
	Rated output power	3W			
	Steady state operating	0-10A			
Dc output	Ripple noise note 2	≤100mV ≤50 mV			
	Output control range	/		/	
	Voltage regulation accuracy	±5%		±2%	
	Output start time	≤1.5S (230Vac input, Full load)			
	Output hold time	≥20mS(230Vac input, Full load)			
	Voltage overshoot	<5.0%			
	Dynamic characteristic	10%-100%Load:10%Vp-p 10%-50%Load: 5%Vp-p 50%-100%Load: 5%Vp-p			
	Input voltage range	90Vac~264Vac / 47Hz~63Hz			
	Rated input voltage	100Vac~240Vac / 47Hz~63Hz			
	Starting voltage	90Vac			
Input	Power factor	1			
	Efficiency (typical value)	58%			
	Standby power consumption	<0.5W			
	Input current (Max.)	<0.2A			
	Starting impulse current		<40A@230Vac Cold start		
	Output overpower protection	V1/105% ~200% swing machine, long-term self-recovery. V2/ No requirement.			
Protection	Output overvoltage	VCC self-shutdown			
function	Output overcurrent	V1/105% ~200% swing machine, long-term self-recovery. V2/ No requirement.			
	Output short-circuit	Swing machine, long-term self-recovery			
	Overtemperature protection	1000 5000 20	00/ 000/BH N 1 '		
Working	Operating temperature and		0%~90%RH No condensing		
environme	Store temperature and		%~95%RH No condensing	1 1 3/3/7	
	Vibration	10 ~ 500Hz, 2G 10min./1cycle, period for60min. each along X,Y, Z axes		each along X, Y, Z axes	
nt	Strike		3 times at each X,Y,Z axes		
	Altitude 5000m		ertification		
	Safety standard  Leakage current	GB4943/EN60950 /EN62368 Refer to □ Certification  Primary side and secondary side ≤0.25mA		Cruncauoli	
Safety and	Insulation strength Insulation impedance	Input-output: 3KVac/10mA test time 1min Input - Output: 100M ohms ENGLION 3.2.3			
electromagn	Harmaonic current				
	Electromagnetic interference	EN61000-3-2,-3  Conduction CE   EN55022 CLASSB; FCC PRAT15A margin of 3dB or above			
etic	_	Conduction CE EN55022 CLASSB; FCC PRAT15A margin of 3dB or above  Radiation RE EN55022 CLASSB; FCC PRAT15A margin of 3dB or above			
compatibilit	FMI	Electrostatic			
y standards	Electromagnetic	Surge			
	Č	Fast pulse	IEC61000-4-4: level3, Criterio		
		DIPS	IEC61000-411: Criterion A	, ,	
	anti-interference EMS	Conductive	IEC61000-4-6: Criterion A		
other					
		53.6*58*24.6mm		<b>第 2 五 井 7 五</b>	

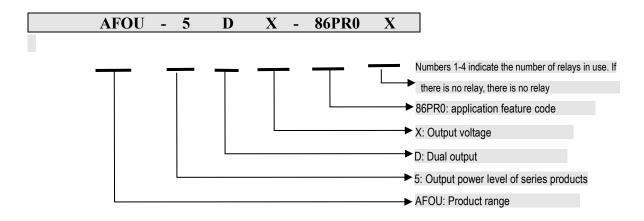
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 3
PYW

### DONGGUAN PYW ELECTRONICS TECH. CO.,LTD. Model: AFOU-5D5+3.3-86PR03 Version: S02

	Connecting terminal	Input: White wire *1, black wire *1; Output 210-2SMT-2*5P with positioning columns in double rows
	Cooling mode	Natural air cooling
Reliability	Design MTBF 200,000Hrs AT 25°C, MIL-217 Method 2 Components Stress Method	
Design electrolytic capacitor		3 years@ 40°C FULL Load and Units Continuously Working
Remark	Note 1: Unless otherwise specified, all parameters are tested after 15min in the oven at room temperature.	

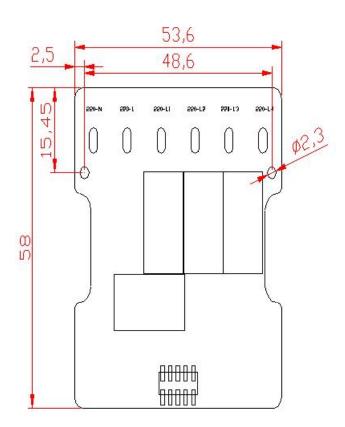
## **Model Code Description:**



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Mechanical: Unit: mm



## Ac input terminal definition:

Pin No.	Assignment	
220-N	earth line	
220-L	Firewire	
220-L1	K1 Output fire line when working	
220-L2	K2 Output fire line when working	
220-L3	K3 Output fire line when working	

## Defined DC output terminal J1:

Pin No.	Assignment
1, 5	Output negative
2、3	+ 3.3V
4	+ 5V
6	S1 Signal input
7	S2 Signal input
8	S3 Signal input
9	S4 Signal input
10	ZX Signal input

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#### **Product installation and instruction:**

- Refer to the mechanical to select the appropriate installation. If necessary, the diameter of the kelly wire is no less than AWG #1.
- 2. Make the electrical connection is correct, to avoid damage to the SPS or equipment: Input & Output, Ac & DC, Positive & negative, Input Voltage Range.
- Do not touch circuit board to avoid electric shock when SPS is working. Do not touch to avoid heat in three minutes after working. Do not touch the soldering side.
- Let it work at ventilated conditions to improve reliability. Do not make it ON/OFF too quickly. Any condition is out of the rated range, please contact FAE for suggestion.
- 5. If the SPS works abnormally, do not open to repair except professional, contact FAE for support.

### Packaging, transportation, storage:

- Package: Unless customer's special demand, Product name, model, manufacturer logo in the box; Date of production can be traced back.
- 2. Transport: Product packaging is suitable for road, railway, air shipping and sea shipping, etc. Be to civilized handling, waterproof, anti-fall, and to avoid severe impact.
- Storage: Do not disassemble or take off the packing box when the product is not in use. Keep 20cm away from ground, and 50cm away from Wall, heat source and air inlet. The storage temperature and relative humidity shall be in accordance with the specifications, and Avoid strong mechanical vibration, shock and strong magnetic field. If the storage period is more than two years, it should be tested again before use.

#### Reference standard:

- GB4943/EN60950/ EN62368: Safety of Information Technology Equipment.
- **GB2324:** Basic environmental testing procedures for electric and electronic products. 2.
- 3. EN55022/EN55032/EN55024: Information technology equipment – Radio disturbance characteristics - Limits and methods of measurement
- IEC61000-4: Electromagnetic compatibility (EMC) test and measurement techniques.
- IEC 61000-6-1: Standard and measurement of electromagnetic immunity for residential, commercial and light industrial 5. environments.
- 6. IEC 61000-6-2: Standard and measurement of electromagnetic immunity for products used in industrial environment.
- 7. GB17625.1-2022: The limits for the harmonic current from low-voltage electrical and electronic equipment (equipment input current≤16A per phase ).
- 8. **GB/T 17626:** Electromagnetic compatibility testing and measurement techniques.
- GB/T14714: General specification for switching power supply of micro computer system equipment.
- GB/T9254.1-2021: Radio disturbance limits and methods of measurement for information technology equipment.
- 11. DONGGUAN PYW ELECTRONICS TECH. CO.,LTD. Enterprise standard.

#### Statement

## Class A statement

## Warning

In a residential environment, running this device may cause radio

interference.

第5页 共7页 www.BDXelec.com