Specification

Project NO.	roject NO. PYW000257-18033		AFCF-700D36+13.8B		
Rev.	S01	Engineer.	Huang Tujun		

Prepared	Date	
Checked	Date	
Approved	Date	

Change Reason and content:						
Sign:						



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■ Feature:

- High voltage input: Rated 180 ~ 264Vac, support a wide voltage range of 150~280Vac normal operation
- LED working instruction
- Comprehensive protection function: input undervoltage, output overload/short circuit/overvoltage/overtemperature
- Constant voltage, constant current output, suitable for battery backup power supply system applications, can use lead-acid battery power supply
- When the AC input is on or off, the backup battery continuously removes or switches the power supply
- Backup battery voltage detection function, battery undervoltage protection, overtemperature protection
- Compatible with SR232/TTL communication (optional), can detect the main input voltage, output voltage and current,

backup battery voltage, temperature, etc



■ Specifications

★ Picture for reference

Product name Note 1		AFCF-700D36+13.8B		AFCF-700D36+13.8B		AFCF-700D36+13.8		AFCF-700D36+13.8			
	Rated output voltage	Main road	Charging	Main road	Charging	Main road	Charging	Main road	Charging		
		36V	14.5V	36V	28V	36V	42V	36V	43.8V		
	Rated output current	18A	5A	18A	3A	18A	2A	18A	2A		
	Rated output current	0~18A	0∼5A	0~18A	0~3A	0~18A	0~2A	0~18A	0~2A		
	Rated output power	700W		700W		700W		700W			
Output	Ripple noise 0~50°C 2	<360 mV _{(600mV} on battery)	<550 mV	<360 mV _{(600mV}	<550 mV	<360 mV _{(600mV}	<400 mV	<360 mV _{(600mV} on battery)	<400 mV		
	Output control range	non-tunable	non-tunable	non-tunable	non-tunable	non-tunable	non-tunable	non-tunable	non-tunable		
	Output setting range	36±1.08V	14.5±0.2	36±1.08V	28±0.2V	36±1.08V	28±0.2V	36±1.08V	43.8±0.2V		
	Voltage regulation	±3.0%	±0.2V	±3.0%	±0.56V	±3.0%	±0.56V	±3.0%	±0.56V		
	Output start time	≤2S (230Vac ir	≤2S (230Vac input, Full load)								
	Output hold time	≥10mS(230Vac input, Full load)									
	Voltage overshoot	<5.0%									
	Dynamic characteristic	V1: 25%-50%	Load:< ±5%	50%-75%l	oad: <±5%						
	Input voltage range	180Vac~264Va	c (Support 150)V~280Vac long-t	erm work)						
	Rated input voltage	200Vac~240Vac/50Hz~60Hz									
	Starting voltage	150±10Vac									
Input	Efficiency (typical	Main: 92% Battery: 90%									
Input	Stand by power										
	consumption										
	Input current (Max.)	<4A									
	Starting impulse	<80A@230Vac Cold start									
	Pattory dotaction	When the system detects that the voltage is lower than 9V, it determines that the battery is connected incorrectly, not									
Charge	Battery detection	connected, and the charging circuit will not open									
Charge management	Charging process	Constant current charging voltage 10-14.2V, > 14.2V (±0.2) when entering the floating charging stage charging current is 1A, the battery will be disconnected after full (14.5V±0.2), the detection voltage is lower than 13.8V (±0.2V) will be recharged (charging current error ±10%)									
	Input power failure protection	Ac input undervoltage (≤ 150V) or power failure, can automatically switch to battery power without interruption; Ac input recovery (≥ 165V), automatic and uninterrupted switching of AC power supply (switching amplitude ≤ 10%VOUT recovery time ≤ 100mS)									
	Input overvoltage	When AC input	overvoltage (≥ 280V±10V), tu	rn off the main	power output, an	d restore the	main power output	when the		
Protection function	protection	voltage returns	to the rated va	alue。							
Protection function	Backup battery	If the BAT volta	ge is lower that	n 10.2±0.3V. the	battery is auto	matically cut off	and the output	is stopped. The A	C can be		
	undervoltage	If the BAT voltage is lower than 10.2±0.3V, the battery is automatically cut off and the output is stopped. The AC can be									
		restarted only after the AC is powered on. In a mandatory emergency, the power supply is stopped below 9.6V±0.3V and can be restarted only after the AC is powered on.									
	protection		<u> </u>	· .							
	Output overpower			g machine, self-re							
	Output overvoltage	Main road: 110%~150% swing machine, self-recovery									

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Output anter-facing. Better concentration. No opinion. no component dismage, no serious healthm, no circuit work. When there is no AC power supply the static current is less than 550uA after the battery overdischarge protection. Violation. 2001-1971; 20%-50%-RFH. No condensing. Violation. Shite. 2001-1972; 20%-50%-RFH. No condensing. Violation. Shite. 2001-1973; 20%-50%-RFH. No condensing. Violation. Shite. 2001-1974; 20%-50%-RFH. No condensing. Violation. Shite. 2001-1974; 20%-50%-RFH. No condensing. Shite. 2001-1974; 20%-50%-RFH. No condensing. Better concentration. B	DONGGUAN PYW ELECTRONICS TECH. CO.,LTD. Model: AFCF-700D36+13.8B Version: S02									
Battery recentance Battery leskage grotecton When there is no AC power supply, the static current is less than 550uA after the battery overdischarge protection Construction of the static protection Working environment A 10 - 5001; 2 - 20% - 90% RFH. No condensing 10 - 5001; 2 - 5001; 1 - 20% - 90% RFH. No condensing 10 - 5001; 2 - 5001; 1 - 20% - 90% RFH. No condensing 10 - 5001; 2 - 5001; 1 - 20% - 90% RFH. No condensing 10 - 5001; 2 - 5001; 1 - 20% - 90% RFH. No condensing 10 - 5001; 2 - 5001; 1 - 20% - 90% RFH. No condensing 10 - 5001; 2 - 5001; 1 - 5000; 2 - 5000; 2 - 5000; 2 - 5000; 2 - 5000; 2 - 5000; 2 - 5000; 2 - 5000; 2 - 5000; 2 - 5000; 2 - 5000; 3 - 500		Output overcurrent	Main road: 110%~150% swing machine, self-recovery							
Bettery were the Battery leakage profection When there is no AC power supply, the static current is less than 550uA after the battery overdischarge profection Working anvironment Chearting temperature and 40°C-85°C; 10%-90%-RH. No condensing Working discovered the state of		Output short-circuit								
## Battery leakage protection Working Protection										
Protection When there is no AL power suppy, the states current is less than 3-bitu's attempt to protection			No ignition, no component damage, no serious heating, no circuit work							
Solve temperature and										
Altitude S000tm Solety standard Safety standard Leakage current	Working									
Althouse 5000 Safety standard G8949/EN60950/EN62369/GB17945 Refer to n Certification Leakage current Primary side - secondary side < 0.25mA Primary side - Earth < 0.35mA Insulation strength Insulation strength Insulation strength		Vibration	10 ~ 500Hz, 20	3 10min./1cycle,	period for60mir	ı. each along X,Y, Z axes				
Safety standard SB4943/EN60950/EN62368/GB17945 Refer to ricertification	environment	Strike	20G/11mS puls	se ,3 times at ea	ch X,Y,Z axes					
Leakage current Primary side - secondary side = 0.25mA Primary side - Earth ≤3.5mA Input - Output - Sudykac/10mA/ Imin, no flare out, no breakdown (with a detonator, the ground screw at the detonator must be removed during the test) Output - Earth: 500Vac/10mA/ 1min, no flare out, no breakdown (with a detonator, the ground screw at the detonator must be removed during the test) Output - Earth: ≥100M ohms@500Vdc Output - Earth: ≥2M ohms@500Vdc Output - Earth										
Insulation strength Insulation strength Insulation strength Insulation strength Input - Corduct. 1.5KVac/10mA/ Triin, no flare-out, no breakdown (with a detonator, the ground screw at the detonator must be removed during the test) Output - Earth: 500Vac/10mA/ Triin, no flare, no breakdown (with a detonator, the ground screw at the detonator must be removed during the test) Output - Earth: 500Vac/10mA/ Triin, no flare, no breakdown Input/output ≥ 10mA ohms@500Vdc Output - Earth: ≥ 10mA ohms@500Vdc Output - Earth: ≥ 10mA ohms@500Vdc Input - Earth: ≥ 10mA ohms@500Vdc Input - Earth: ≥ 2M oh		Safety standard	GB4943/EN609	950/EN62368/G	B17945	Refer to Certification				
Input - Ground: 1.5KVac/10mA/ Timin, no flare out, no breakdown (with a detonator, the ground screw at the detonator must be removed during the test)		Leakage current	Primary side - s	secondary side s	≤0.25mA Primar	y side - Earth ≤3.5mA				
be removed during the test) Output - Earth: 500Vac/10mA/ 1min, no flare, no breakdown Under normal temperature and humidity conditions Enter - Earth: ≥100M ohms@500Vdc Output - Earth: ≥100M ohms@500Vdc Output - Earth: ≥20M ohms@500Vdc Output - Earth: ≥20M ohms@500Vdc Output - Earth: ≥2M ohms@500Vd			Input - Output:	3.0KVac/10mA/	1min(without ho	ousing, single power supply test), no flare, no breakdo	wn			
De removed during the test) Coutput - Earth: 500Vac/10M / Imin, no flare, no breakdown Input/output: ≥100M ohms@500Vdc		Inquilation atropath	Input - Ground:	1.5KVac/10mA	/ 1min, no flare-	out, no breakdown (with a detonator, the ground screv	w at the detonator must			
Under normal temperature and humidity conditions Insulation impedance		insulation strength	be removed du	ring the test)						
Input/output: ≥100M ohms@500Vdc			Output - Earth:	500Vac/10mA/	1min, no flare, r	o breakdown				
Enter - Earth: ≥100M ohms@500Vdc			Under normal to	emperature and	humidity	y				
Constant humid heat: Input/output: ≥2M ohms@500Vdc Input - Earth: ≥2M ohms@500Vdc Input -			conditions			Input/output: ≥100M onms@500Vdc				
Constant humid heat: Input/output: ≥2M ohms@500Vdc Input - Earth: ≥2M ohms@500Vdc Input -					Enter - Ear	h: ≥100M ohms@500Vdc				
Insulation impedance										
Insulation impedance humid heat temperature 40 ℃ ±2 ℃, humidity Output - Earth: ≥2M ohms@500Vdc			Constant	Innut/outnut.			-			
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Size (L * W * H) Connecting terminal Connecting terminal Cooling mode Cooling mode Communication Size (L * W * H) Connecting terminal Linput: 9.525 terminal block /3Pin, Output: 9.525 terminal block /4Pin (VOUT+,VOUT- 2PIN each) Battery: M4 single-port copper terminal (BAT+,BAT-, 1 PIN each) Cooling mode Forced air cooling 80 x 80 x 25 fan The 12V air volume is greater than 70CFM Support RS232 or TTL communication (optional), detect the main input voltage, output voltage and current, backup battery voltage (including single battery voltage), battery temperature			immunity at a		at all phases of	0°, 45°, 90°, 135°, 180°, 225°, 270° and 315°				
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voltage (including single battery voltage), battery temperature	Other	Cooling mode					ourrent healers better			
Compulsory The emergency can be forced through software commands to change the battery overdischarge protection voltage point to		communication			, ,		инені, раскир рацегу			
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www.BDXelec.com 第 3页 共 7 页



Power year world	DONGGUAN PYW	VELECTRONICS TECH. CO.,LTD. Model: AFCF-700D36+13.8B Version: S02						
		After the battery overdischarge protection, if the battery is powered back, it can be forced to switch on the control circuit power supply by short-circuiting the CON4 terminal. When the battery voltage meets the working conditions, the MCU will start the backup power, and turn off the output after the battery voltage drops and triggers the overdischarge protection again. The user can connect a resettable trigger switch on CON4 to the panel to enable this function.						
	Start the backup power	You can manually start the backup power by using software commands or hardware switches						
	Backup switch	After the battery is connected, press the backup switch to start the backup power only after the internal indicator lights up for 15 seconds. To remove the battery, turn off the switch first. (Do not press this switch before the battery is connected or the system is not sure to enable it, otherwise it will cause battery leakage)						
	The software reports the AC voltage range							
	Battery temperature detection	For battery temperature detection, use a temperature sensor (matching a 10 K ω 3950 curve) to connect one end to the battery temperature 1/2/3 Single battery needs to be connected to bit 1, and the other end to the Vout-(negative output pole of the main circuit).						
	Single battery voltage detection	To detect the voltage of a single battery, the user needs to connect the lead from the single power-saving pool to the battery voltage 1/2. 1 battery does not need to be connected, (2 24V or 3 36V battery pack reference: 2 batteries only need to connect the first to the 1 position, 3 batteries only need to connect the first position.						
	Battery voltage	±0.2V						
Software detection	Output voltage	±3%						
Software detection	Charging current	±10% when normal charging, ±0.2A when floating charging						
accuracy	Output current Output power	The minimum detectable current is 0.2A, the detection error is ±10% when VO > 2A, ±0.2A when VO < 2A The detection error is ±10% when PO > 72W, and ±7.2W when PO < 72W						
	Input voltage	±10% when FO > 72W, and ±7.2W when FO > 72W						
	External indicator light	If the external indicator is on, the main power supply is normal						
Pilot lamp	Internal indicator light	If one indicator is steady on, the backup is ready. If the other indicator blinks, the MCU is running.						
	Design MTBF	200,000Hrs AT 25°C, MIL-217 Method 2 Components Stress Method						
Reliability	Designed electrolytic	3 years@ 40°C FULL Load and Units Continuously Working						
	Boolghou oloca olyac	o yourses to a roce Load and office continuously working						

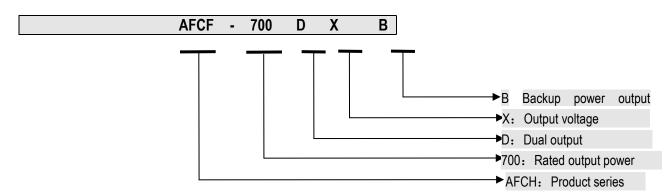
Note 1: Unless otherwise specified, all parameters are tested after 15min in the oven at room temperature.

Note 2: Ripple noise is the use of 12# twisted pair connection length 20mm, and at 20MHz bandwidth, parallel 0.1uF and 10uF capacitors, ripple and dynamic ripple are not

Model Code Description:

required under the condition of -10 \sim 0 $^{\circ}$ C.

Remark

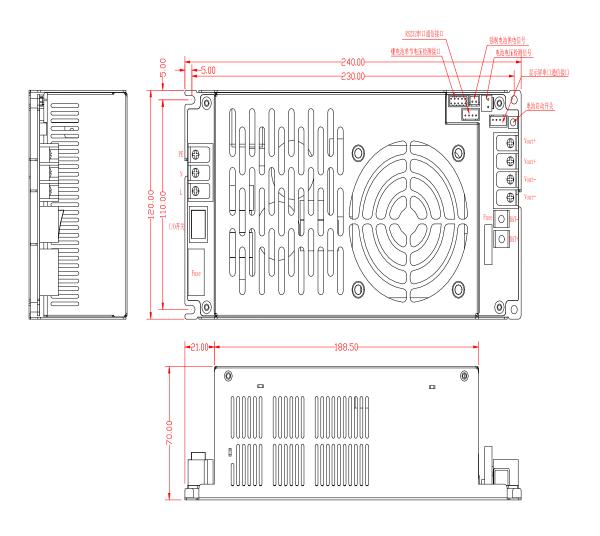


Note 3: In actual application, see the derating curve, positioning diagram, and installation mode description for details.

www.BDXelec.com 第4页 共7页



Mechanical:



比例 1,000

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DONGGUAN PYW ELECTRONICS TECH. CO.,LTD. Model: <u>AFCF-700D36+13.8B</u>

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6页 共7页 www.BDXelec.com