

Product Instruction Manual

Digital display intelligent AC power supply AP-AY151X/251X



Shanghai Anping Static Technology Co., Ltd.

Website : www.ap-static.com Address : 3/F,Building 27,No.69,Guiqing Road,Shanghai,China Tel : +86-21-64517676 Fax : +86-21-64517673

Product Description

AP-AY151X/251X digital display intelligent AC power supply is one of the high-voltage power supply series products for static eliminator produced by Anping Company (AP&T) which is designed for controlling the static electricity on the surface of the target to achieve the purpose of electrostatic safety protection for the discharged object. It is a digital display intelligent AC power supply with alarm function which is a dedicated configuration power supply for Anping's AC ion bar products.

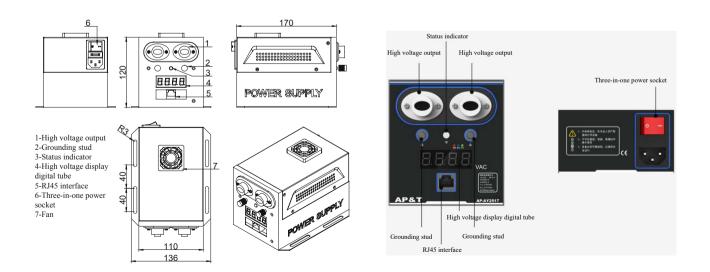
Product Features

- 1. With energy storage components to ensure stable output power.
- 2. The fan can dissipate heat and ozone in real time to extend the service life of the power supply.
- 3. High voltage and low current working.
- 4. Pluggable interface which is easy to operate and install.
- 5. With voltage fault alarm function and the panel display shows the equipment working voltage in real time.
- 6. The power supply with communication function can be monitored online on the adapting software.
- 7. With short-circuit protection function, it will automatically cut off the power supply when the device is short-circuited.

Specifications

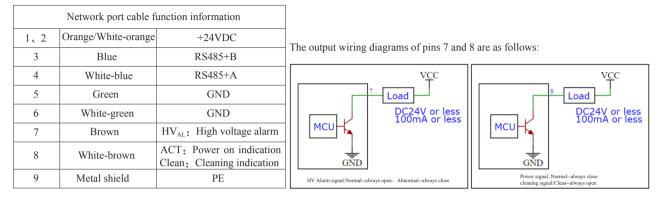
Model	AP-AY1517/2517	AP-AY1515/2515	
Input voltage	AC220V/50Hz or AC110V/60Hz		
Output voltage	AC7000V (No load)	AC5600V (No load)	
Power	< 20W		
Status indicator	Red light—High voltage fault alarm		
	Blue light—cleaning, Blue light flashing—debugging		
	Green light—normal work		
Working temperature	- 10℃—+ 50℃		
Working humidity	<75%RH		
Net weight	3050g		
Dimensions	L*W*H: 136*170*120		

Product details and dimensions



Installation Guide

- Insert the national standard power cord plug into the mains socket.
 Insert the high-voltage connector of the static elimination device into the high-voltage output socket of the power supply and connect its ground terminal to the ground stud of the high-voltage power supply.
 The switch indicator and status indicator light on(Green light on when working normally) and the display showing the working voltage value normally indicates the power supply working normally when turn on the power switch.
 One end of the communication network cable should be inserted into the RI45 communication socket on the front panel of the power supply, and the other end should be connected to a monitoring terminal or connected to a PC through a USB-485 converter If communication is required. The port wiring and namel descriptions are as follows: required. The port wiring and panel descriptions are as follows:



5. The cleaning cycle of the high-voltage power supply can be set by the remote control, as shown in the table below:



Button function instructions				
Unlock		Unlock before adjusting operating parameters		
Run / Pause	1	Device starts running when power is on. Press "STOP" to standby and no high voltage output. Press "RUN" again and the device will start working.		
Parameter display	" +/-	Unlock, press +/- to switch the display of working address, cleaning cycle, working environment temperature/humidity, alarm threshold		
Adjust cleaning cycle	cycle CT _{TH} " +/- Press CT _{TH} first, then press +/- to increase or decrease the cleaning cycle (Default 30 days, adjustment range is 1-60 days)			
Adjust alarm threshold	reshold AL _{TH} " +/- Press AL _{TH} first, then press +/- to increase or decrease the high voltage alarm threshold (Default 1000V, adjustment range is 500-2000V)			
Confirm	CAL″OK	Press CAL first, then press OK to confirm after adjusting the output parameter		
Reset	CAL" 🗘	Reset, Press CAL first, then press 🚺		
Display information description				
3888	7000 Display the real-time high-voltage output value of the high-voltage power supply: 7000V			
8888	A00	Display the working address of the high-voltage power supply: 00		
8885 E15		Display the cleaning cycle of the matching ion bar: 15 (Unit: day)		
8688 C19		Display the internal working environment temperature of the high-voltage power supply: 19°C		
8888	H19	Display the internal working environment humidity of the high-voltage power supply: 19%RH		
8888	1000	Display the alarm threshold of the high-voltage power supply: 1000VAC		
		(eg: High voltage from 7000VAC 1000VAttenuation 6000VAC alarm)		

Maintenance

It should be stopped and repaired by professional maintenance personnel when the red switch work indicator on the back panel of the high voltage power supply is off, or the status indicator on the front panel is red or off, or the display is abnormal. It can be used only after the electrical performance indicators are normal.

NO	Problems	Reasons	Solutions
1 The switch indicator on the back panel is off	The switch indicator on the	Poor contact of the power cable	Check whether the power cable is in good condition and securely connected
	No power supply	Check the on-site power supply lines	
2 The status indicator on the front panel is red	No power supply from high voltage transformer	Return to factory for maintenance	
	High voltage transformer is damaged	Return to factory for maintenance	
	from panel is red	High-voltage components is damaged	Return to factory for maintenance
3	The panel indicator light is blue	Cleaning indication	Ion bar and power supply cleaning maintenance
4	The display is abnormal or fuzzy	Abnormal discharge	Check the connection between the high-voltage plug of the ion bar high-voltage cable and the power supply high-voltage socket to confirm that the plug is inserted in place
5	The product is smoky or burnt	The high-voltage transformer or high-voltage components are damaged or the insulation of the discharge socket is damaged	Return to factory for maintenance

Safety warning

\Lambda Warning

- 1. Please read the instruction manual carefully before installing and using this equipment.
- The working input power of the power box must be reliably connected to the grounding wire of the electrical power supply cable and the grounding resistance should be less than 4 ohm; Otherwise, it is easy to cause abnormal or even damage of ion bar and high voltage power supply.
- 3. Do not use this equipment in environment where humidity is > 70%.
- 4. It is strictly forbidden to use this equipment in flammable and explosive environments.
- 5. Unauthorized disassembly of the product is strictly prohibited, internal maintenance and repair must be performed by professionals.
- 6. It is strictly forbidden to touch liquid during use, otherwise an abnormality may occur and cause electric shock or fire.
- 7. Power must be turned off during inspecting or replacing the product, otherwise it may cause electric shock or fire.
- The product is specially designed for eliminating static electricity. It is strictly forbidden to use it for other purposes. Any abnormal use may cause
 machine failure, electric shock, fire and other accidents.
- 9. Please check the input voltage before powering on the product. Any power supply that does not meet the specifications will cause damage to the product.
- 10. Please check the product power cord regularly and replace it immediately if it is damaged. Otherwise it is easy to cause problems such as electric leakage and abnormal operation.

After-sales service

- 1. AP-AY151X/251X digital display intelligent AC power supply has undergone rigorous testing and aging treatment before ex-work. Its performance has completely reached the relevant indicators marked in the usage instruction.
- 2. AP&T makes a commitment to the customer that any defective parts inspected by AP&T will be repaired or replaced free of charge within one year from the date of purchase. However, this commitment does not apply to:
 - a. The device is incorrectly used or installed.
 - b. Damage caused by negligence or accident during use.
 - c. Modified, disassembled or repaired by other service departments not authorized by Anping Company.
- 3. AP&T shall not be liable for any incorrect use of the products except for repair or replacement of parts as specified above.

Packaging accessories

- 1、Manual
- 2、Certificate of conformity
- $3\,{\ensuremath{\naum{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensure$
- 4、Remote control
- 5、Network cables, converters and matching software are optional if communication function is required