

The background is a solid blue color with a pattern of small white dots arranged in a grid. A green diagonal line runs from the top left to the bottom right. In the top left, there is a close-up of an AP&T product, possibly a sensor or actuator, with a blue and silver body. In the bottom right, there is a row of several AP&T static eliminators, which are rectangular units with fans on the front. The AP&T logo is in the top right corner.

# AP&T®

## Electrostatic Elimination and Monitoring Products

STATIC  
CONTROL  
SOLUTION

[www.ap-static.com](http://www.ap-static.com)

# Enterprise Profile

Founded in 1999, Shanghai Anping Static Technology Co., LTD., is a high-tech enterprise with integrating R&D, production, sales and technical services.

Our company is a professional static analysis, intelligent monitoring and elimination solutions provider.

Our products are widely used in electronics, printing, packaging, textile, semiconductor, medical equipment, plastic film and many other industries.

We have reached cooperations with thousands of customers, including many well-known enterprises domestic and overseas.

We are committed to providing high quality products and services, creating values with our speciality for our partners.



# Enterprise Qualification

## ■ Patents



## ■ Qualification Certificate



## ■ Explosion-proof Certificate



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# AP-YV3302/YV3303

## INTELLIGENT STATIC SENSOR

### Product Profile

**AP-YV3302** The Static Sensor is developed by non-contact vibration capacitance electrostatic detection technology, Auto-detecting the static electricity on the surface of the objects in high precision. Data transmitted to PC in real time and data collection and storage realizable.

Pre-set electrostatic alarm threshold, red light alarms when the threshold is exceeded.

**AP-YV3303** static sensor developed by Shanghai Anping Static Technology Co., Ltd. is a test instrument which can detect the static electricity on the surface of the objects.

It can minimize the influence on the detection tester to the electrostatic fields from the surface of the objects by using non-contact measuring technology for the measuring accuracy.



### Working Environment



Working Temperature  
0°C → + 50°C



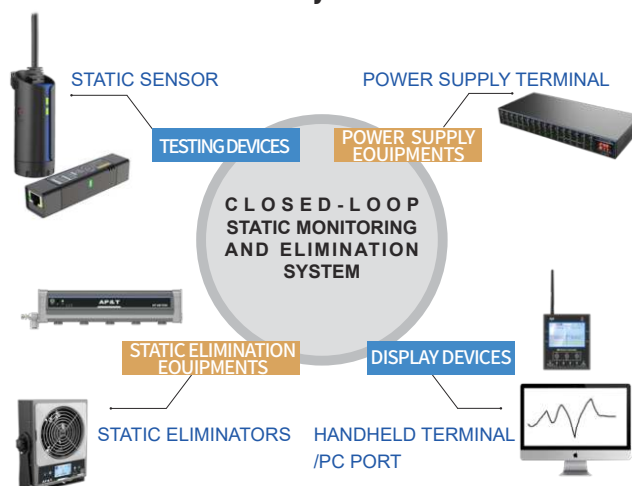
Working Humidity  
30→65%RH

### Industry Application

Widely used in electronics, optoelectronics, plastics and other industries.



### Closed-loop electrostatic monitoring and elimination system





## Technical Parameters

### Specifications

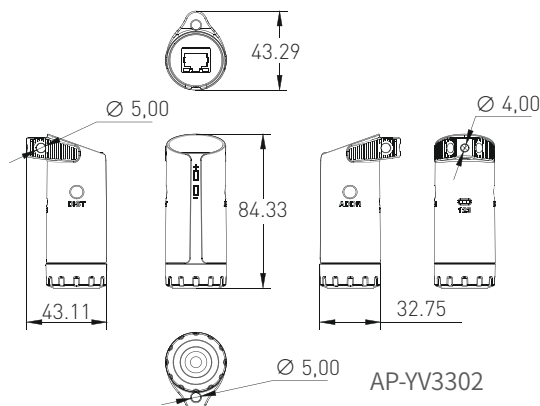
NO.	Parameter														
		AP-YV3302							AP-YV3303						
1	Working voltage	DC8-24V													
2	Working current	< 50mA													
3	Sampling time	About 1ms													
4	Vibration	< 1KHz													
5	Noise	< 5dB													
6	Signal output	RS485(115200bps,8,1,n,n) ( ≥ 20ms)													
		Open Collector (<50V/100mA)													
7	Network interface	1、 2	3	4	5、 6	7	8	9	1、 2	3	4	5、 6、 9	7	8	
		Orange、 white -orange	White-blue	Blue	Green、 white-green	Brown	White -brown	Metallic shield shell	Orange、 white -orange	White-blue	Blue	White-green、 green	Brown	White-brown	
		VCC	RS485+A	RS485+B	GND	C1	C2	PE	VCC	RS485+A	RS485+B	GND、 PE	NPN-C1	NPN-C2	
8	Communication distance	< 300m													
9	Alarm indication	LED													
10	Threshold setting	0 ~ ±5000V													
11	Detection angle	< 15°													
12	Test plate size	600mm X 600mm													
13	Startup stand-by time	5S													
14	Infrared control distance	< 20°, 1m													
15	Dimensions	44*33*85mm							24*22*102mm						
16	Net weight	about 49.7G							about 47.4G						

Corresponding static voltage range and minimum resolution by each detection distance:

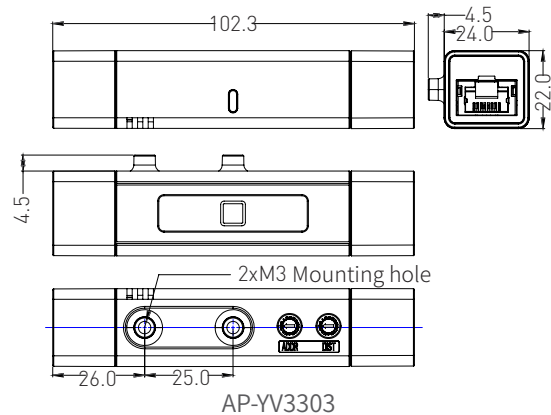
AP-YV3302							
Detection gear	Distance coding	Detecting distance	Measuring range	Resolution	Deviation	Zero Jump	Calibration
1	0	5mm	±2000V	1V	10%	±1V	×
	1	10mm	±4000V	3V		±3V	
	2	25mm	±10000V	5V		±5V	
	3	50mm	±15000V	10V		±10V	√
	4	100mm	±20000V	10V		±10V	
	5	150mm	±20000V	10V		±20V	×
	6	200mm	±20000V	15V		±30V	
2	7	250mm	±20000V	20V		±40V	√
	8	300mm	±20000V	10V		±20V	
	9	350mm	±20000V	15V		±30V	×
	A	400mm	±20000V	15V		±30V	
3	B	450mm	±20000V	15V		±30V	√
	C	500mm	±20000V	10V		±30V	
	D	550mm	±20000V	15V		±30V	×
	E	600mm	±20000V	15V		±60V	
	F	700mm	±20000V	20V		±80V	

AP-YV3303							
Detection gear	Distance coding	Detecting distance	Measuring range	Resolution	Deviation	Zero Jump	Calibration
1	0	5mm	±2000V	1V	10%	±1V	×
	1	10mm	±4000V	2V		±2V	
	2	25mm	±20000V	5V		±10V	
	3	50mm	±20000V	10V		±10V	√
	4	100mm	±20000V	10V		±10V	
	5	150mm	±20000V	10V		±10V	×
	6	200mm	±20000V	10V		±10V	
2	7	250mm	±20000V	10V		±10V	√
	8	300mm	±20000V	10V		±10V	
	9	350mm	±20000V	10V		±10V	×
	A	400mm	±20000V	10V		±10V	
3	B	450mm	±20000V	10V		±10V	√
	C	500mm	±20000V	10V		±10V	
	D	550mm	±20000V	10V		±10V	×
	E	600mm	±20000V	10V		±10V	
	F	700mm	±20000V	10V		±10V	

## Product Size



AP-YV3302



AP-YV3303

# AP-KS9302

## SYSTEM MONITORING TERMINAL

### Product Profile

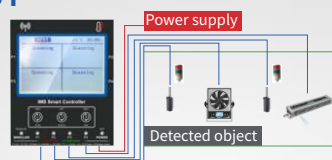
The AP-KS9302 system monitoring terminal is a monitoring display of the static monitoring and elimination system produced by AP&T, and is used for monitoring the working state of the pulsed DC ion fan, the pulsed AC ion bar, and the electrostatic sensor.

System monitoring terminal (AP-KS9302), also known as IMS intelligent monitor, can provide 4 communication network transmission, support the Features of LAN/WAN connection, flexibly configure real-time monitoring static electricity detection and elimination equipment, realize power supply, data interaction, real-time display, linkage, etc.



### Product Features

01



#### Smart Display Screen

Monitor or display the work of Static Sensor or Static Eliminator

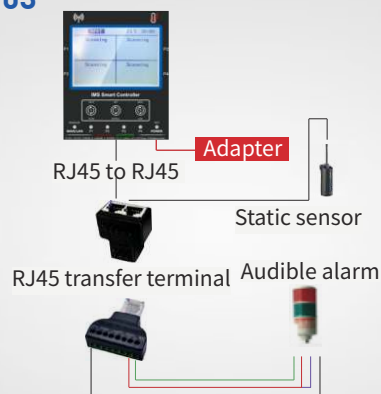
02



#### Indicator light

4 way working station indicator light  
1 way communication status indicator light  
1 way power-on indicator light

03



#### communication interface

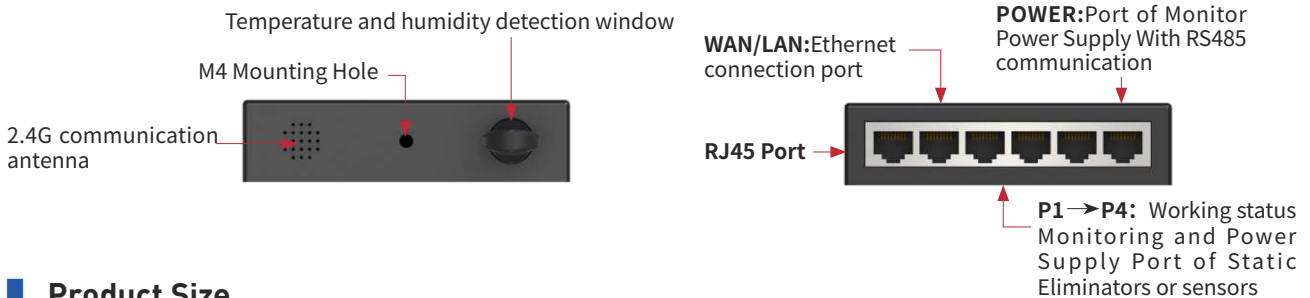
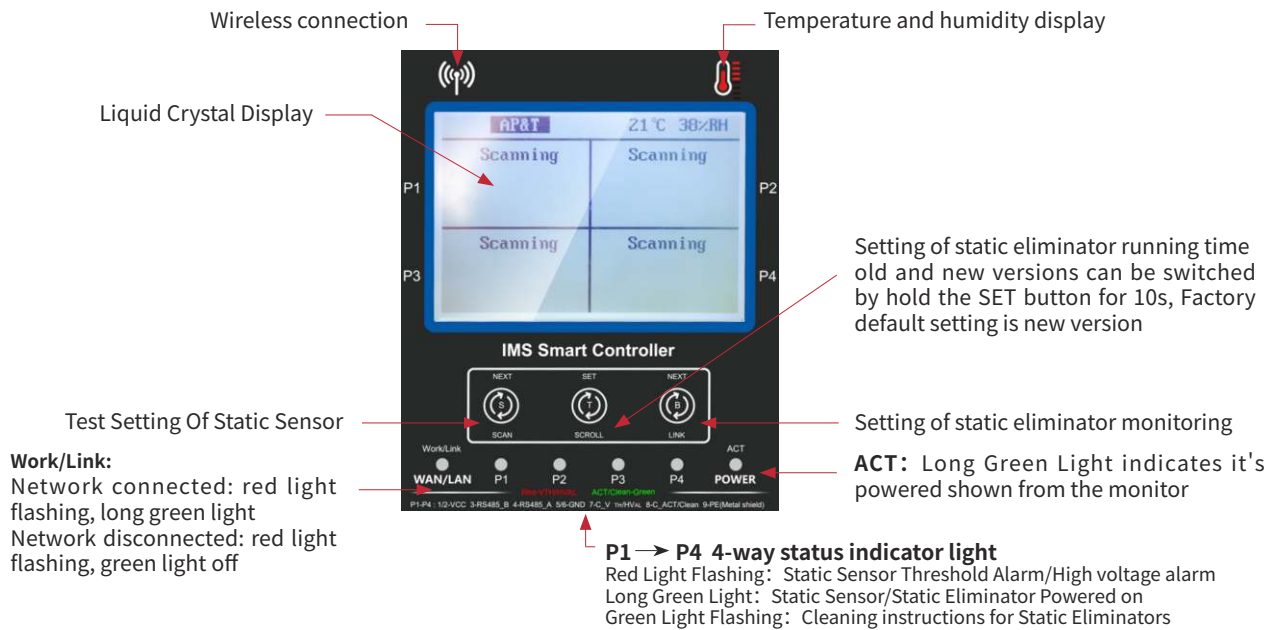
RJ45 power supply and communication interface, RS485 and wireless communication function.

### Product Parameter

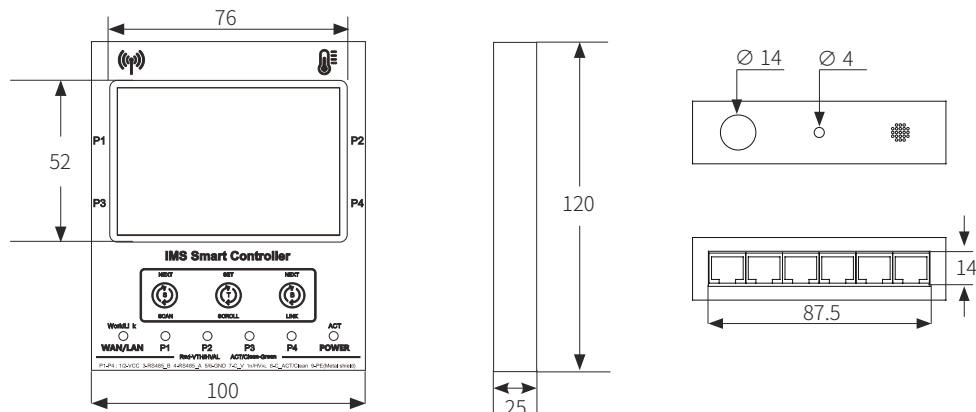
NO.	Specifications						
1	Adapter	IN:AC85-240V OUT:24V 2A					
2	Product size	100*120*25					
3	Indication	LED					
4	Digital display	3.5 Inch COG, monochrome					
5	Working environment	temperature: 0-50°C; humidity: 30-70%RH					
6	Product network port	4 port: P1-P4					
7	Network port definition	1、2	3	4	5、6、9	7	8
		White-orange, orange	White-blue	Blue	White-green, green	Brown	White-brown
		VCC	RS485+A	RS485+B	GND、PE	NPN-C1	NPN-C2
8	Communication network port	WAN/LAN					
9	Power network port	POWER					
10	Net weight	400g					
11	Gross weight	500g					

NO.	Function					
1	Network port	POWER	Power interface (with RS485 communication method)			
		P1-P4	Static eliminator or static sensor			
		WAN/LAN	Ethernet connection			
2	LED	P1-P4	Red	Static eliminator	High voltage indication	Flicker
				static sensor	Threshold indication	
			Green	Static eliminator	Power on indication	Constantly bright
				static sensor		
		Static eliminator		Cleaning instructions	Flicker	
Note: 1.P1 - P4 : Power supply limit, only 2 heaters can be connected						
2.WAN/LAN: This network port cannot be connected to the power supply, otherwise the wireless module will						

## Functional Diagram



## Product Size



# AP-YV1301/1302/1303 AP-YF1201 PORTABLE STATIC METER

## ■ Product Profile

The product is a handheld static meter which can test the static electricity on the surface of the objects. it adopts non-contact measurement technology to test the static value accurately on the surface of the objects. Explosion-proof static meter optional which can be used in inflammable working place.

## ■ Product Features

- 1.Comfortable hand feeling and beautiful shape.
- 2.Dual LED for precise positioning.
- 3.Wide range of detection with high detection accuracy.
- 4.Comfortable keys operation, Easy to use.
- 5.High definition, omnidirectional LCD data display.
- 6.AP-YF1201 has explosion-proof function, which can be used in corresponding grade to EX IB II B T5 GB or lower grade inflammable and explosive environments.



## ■ Industry Application

Widely used in electronics, optoelectronics, plastics and other industry.



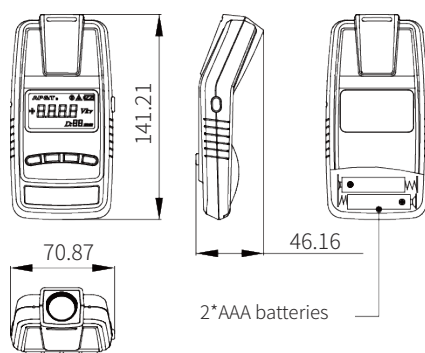
## Product Parameter

Name	Static Meter			Explosion-proof Static Meter		
Model No.	AP-YV1301	AP-YV1302	AP-YV1303	AP-YF1201		
Measuring Range (KV)	0.001—±2.000	0.01—±20.00	0.1—±200.0	0.001—±2.000	0.01—±20.00	0.1—±200.0
Appearance and colour	Gray shell gray key	Black shell gray key	Black shell black key	Gray shell gray key	Black shell gray key	Black shell black key
Explosion-proof level	Ex ib II B T5 Gb					
Detection accuracy	±10%					
Detection distance	25mm±1.0mm					
Input voltage	DC3V(2*AAA)					
Working current	<100mA					
Power off	Shutdown-Hold the power key for 3s or shutdown automatically after 180s					
Working Temperature	-18°C—+50°C					
Working humidity	0—85%RH					
Dimension	141*71*38mm(L*W*H)					
Net weight	146g(including 2 batteries)					
Gross weight	359g±20g( including 4 batteries and Packaging accessories)					

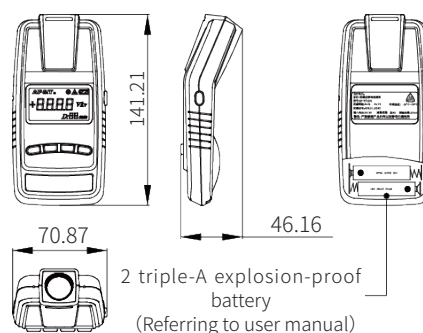
## Product Appearance



## Product Dimension



AP-YV1301/1302/1303



AP-YF1201

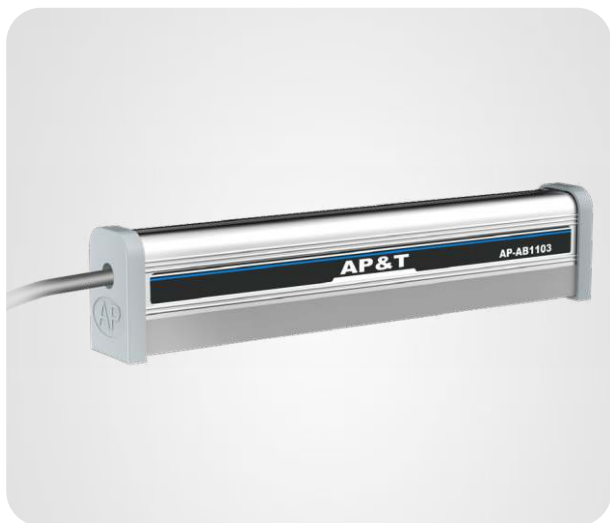


# AP-AB1103

## ELECTRIC SHOCK PROOF AC ION BAR

### Product Profile

AP-AB1103 adopts power frequency AC high voltage to ionize air molecules by impedance coupling device acting on dedicated electrode, producing and transferring positive and negative ions onto the surface of target object for neutralizing electrostatic charges to reach the high efficiency of static elimination.



### Product Features

<p><b>01</b></p> <p><b>Compact and small bar body</b> Save installation space</p>	<p><b>02</b></p> <p><b>Electric shock proof</b> Avoid human injuries by electric shocks</p>
<p><b>03</b></p> <p><b>Easy installation</b> Special designed strip notch on the back with movable bolts</p>	<p><b>04</b></p> <p><b>CE Certified</b> Electromagnetic protection function</p>

### Industry Application

Widely used in textiles, plastics, film, printing industries.



### Supporting Power Supply

Tows one power supply

Tows two power supply



AP-AY1505



AP-AY2505



AP-AY1502

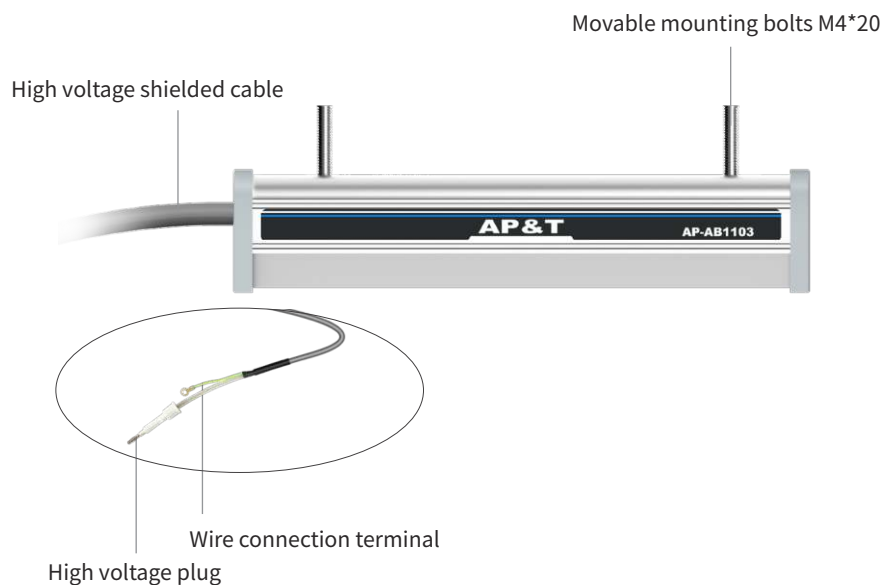


AP-AY2502

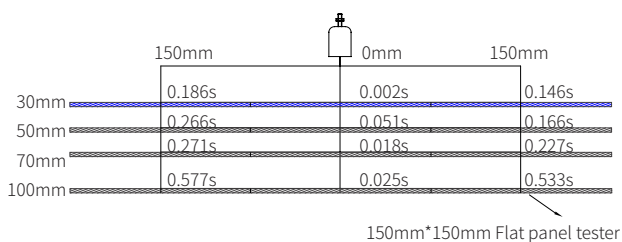
## Product Parameter

Model	AP-AB1103		
Power	20W	Working temperature	0°C - 50°C
Ion emission	Power frequency AC	Working humidity	< 70%
Emission electrode	SUS	Dimension	L*W*H (150mm → 3000mm) *20.4mm*32mm
Discharge structure	Resistance coupling	Ion bar body material	Inflaming PVC, AL
Discharge range	L*W*H (150mm → 3000mm) *300mm*100mm	Length of high voltage connection cable	2.5m(customizable, maximum 10m)
Installation distance	30 → 100mm	Installation accessories	M4*20 hexagon mounting bolts
Ion balance	$\leq  \pm 30V $ (AVG)	Warranty	1 Year
Discharge speed	$\leq 1.0S$ (100mm working distance)	Certificate	CE
Working voltage	Length of one bar > 1m or length of 2 bars in total < 1m: AC5600 V Length of one bar $\geq 1m$ or length of 2 bars in total $\geq 1m$ : AC7000 V	Supporting power supply	AP-AY1505: Length of the ion bar < 1m, length of 2 ion bars in total < 1m AP-AY1502: Length of the ion bar $\geq 1m$ , length of 2 ion bars in total $\geq 1m$

## Product Appearance

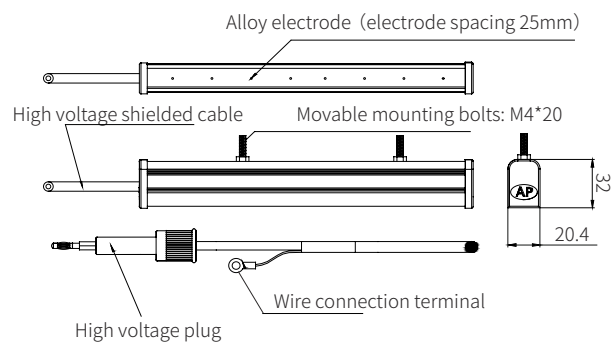


## Discharge Effect Drawing



Test condition: Length of ion bar 1000mm  
 Test standard: ANSI/ESD.STM3.1, SJ/T 11446—2013  
 Test instrument: Trek flat panel charge tester  
 Test voltage:  $\pm 1000V \rightarrow \pm 100V$  Attenuation  
 Test environment: Humidity: 50 $\pm$ 5%  
 Temperature: 23 $\pm$ 3°C

## Product Dimension Drawing



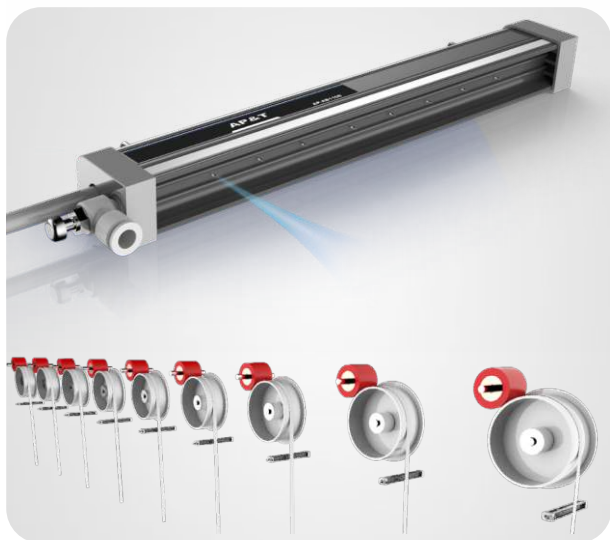
# AP-AB1108

## ELECTRIC SHOCK PROOF HIGH EFFICIENCY AC ION BAR

### Product Profile

AP-AB1108 ion bar adopts power frequency AC static elimination technology. Bar size compact and required small installation space.

It is safe and reliable to work under high voltage, micro current( $\mu A$  grade) with high efficiency of static elimination.



### Product Feature

01



#### Electric shock proof

Avoid the injuries from accidental human contact

02



#### Easy Installation

Special designed strip notch on the back. Installation bolts are moveable

03



#### Power Supply

Standard configured high voltage power supply

04



#### Intake throttle valve

Specification:  $\Phi 8-G1/8$ , white color

05



#### CE Certified

Electromagnetic protection function

### Industry Application

Widely used in printing, UV, flat panel, semiconductor, optoelectronics and other industries.



### Supporting Power Supply

Tows one power supply

Tows two power supply



AP-AY1504



AP-AY2504



AP-AY1506

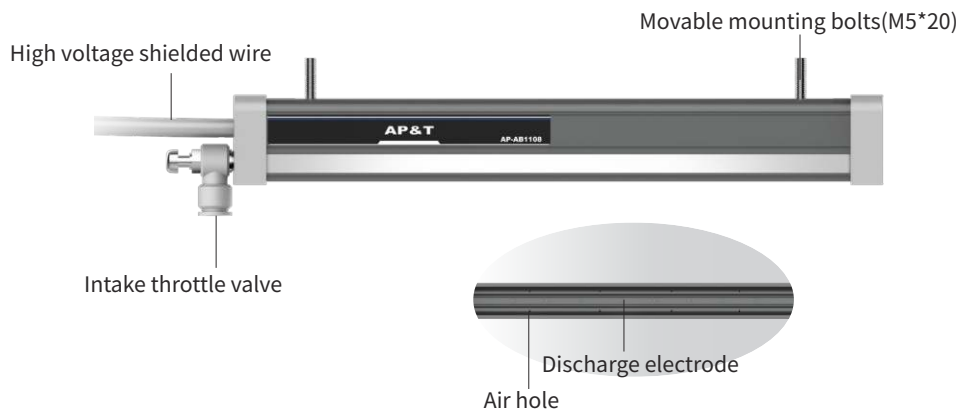


AP-AY2506

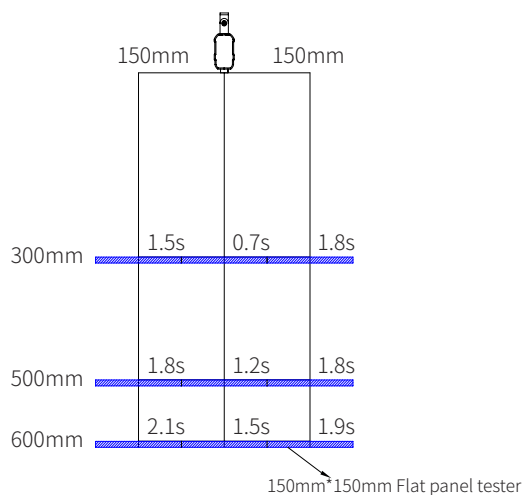
## Product Parameter

Model	AP-AB1108		
Power	20W	Throttle air source connector	G1/8 for $\phi 8$ grey and white
Ion emission	Power frequency AC	Working temperature	0°C - 50°C
Emission electrode	Tungsten	Working humidity	< 70%
Electrostatic discharge structure	Resistance coupling	Dimension	L*W*H (150mm → 3000mm) *28.6mm*38.7mm
Discharge range	L*W*H (150mm → 3000mm) *300mm*600mm	Bar material	Flame retardant PVC、SUS
Installation distance	100 → 600mm	Packaging accessories	M5×20 hexagonal mounting bolts
Discharge speed	$\leq 2.5S$ (Working distance 300mm, airflow press 0.3Mpa)	Power cord length	2.5m (Can be customized according to requirements, Max size is 10m)
Ion balance	$\leq  \pm 100V $ (AVG)	Warranty	1 Year
Air pressure	$\leq 0.6Mpa$	Certificate	CE
Working Voltage	Single Ion Bar length < 1m or 2 ion bars length in total < 1m: AC5600V Single Ion Bar length $\geq 1m$ or 2 ion bars length $\geq 1m$ : AC7000V	Supporting power supply	AP-AY1506: Bar Length < 1m; / AP-AY2506: 2 ion bars length in total < 1m AP-AY1504: Bar Length $\geq 1m$ ; / AP-AY2504: 2 ion bars in total $\geq 1m$ airflow press $\leq 0.6Mpa$

## Product Appearance

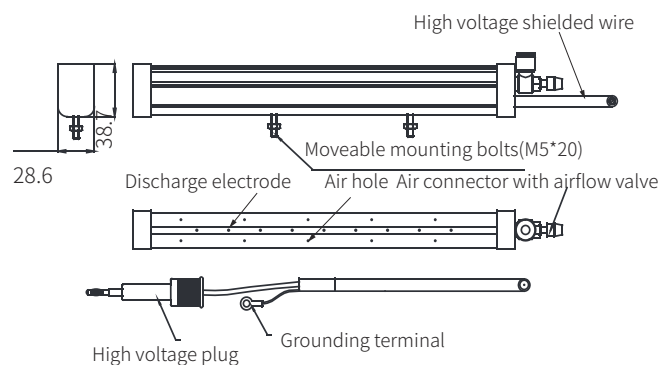


## Discharge Effect Drawing



Test Condition: Ion Bar Length:500mm Air pressure:0.4Mpa  
 Test Standard: ANSI/ESD.STM 3.1, SJ/T 11446-2013  
 Test Instrument: Trek flat panel tester  
 Test Voltage:  $\pm 1000v \rightarrow \pm 100v$  attenuation  
 Test Environment: Humidity:  $50 \pm 5\%$   
 Temperature:  $23 \pm 5^\circ C$

## Product Dimension Drawing

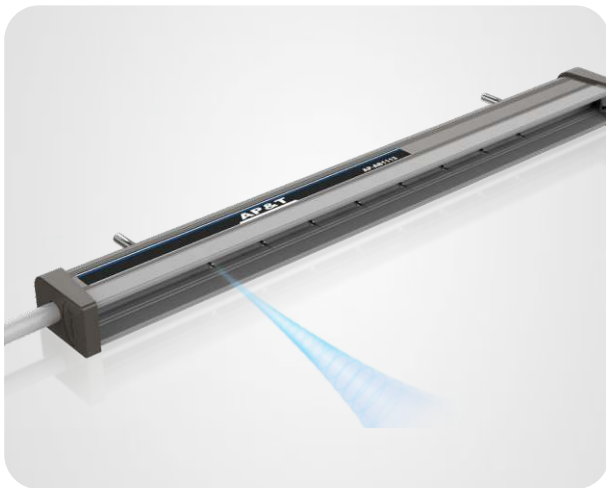


# AP-AB1113

## ELECTRIC SHOCK PROOF POWER FREQUENCY AC ION BAR

### Product Profile

AP-AB1113 ion bar adopts power frequency AC high voltage technology to ionize air molecules through impedance couplers applicated to dedicated emission electrodes, producing positive & negative ions and transferring onto the surface of the objects where static electricity needs to be eliminated to neutralize electrostatic charges so as to realize high efficiency static elimination.



### Product Feature

01

#### Electric shock proof

Avoid injuries from accidental human contact

02

#### Easy Installation

Bolts can be installed and moved on the back of the special strip notch

03

#### Power Supply

Standard Configured high-voltage Power Supply

04

#### Standard configured tungsten needle

Longer service life

05



#### CE Certified

Electromagnetic protection function

### Industry Application

Widely Used in film, printing, plastics, textiles and other industries.



### Supporting Power Supply

Tows one power supply



AP-AY1504

Tows two power supply



AP-AY2504



AP-AY1506



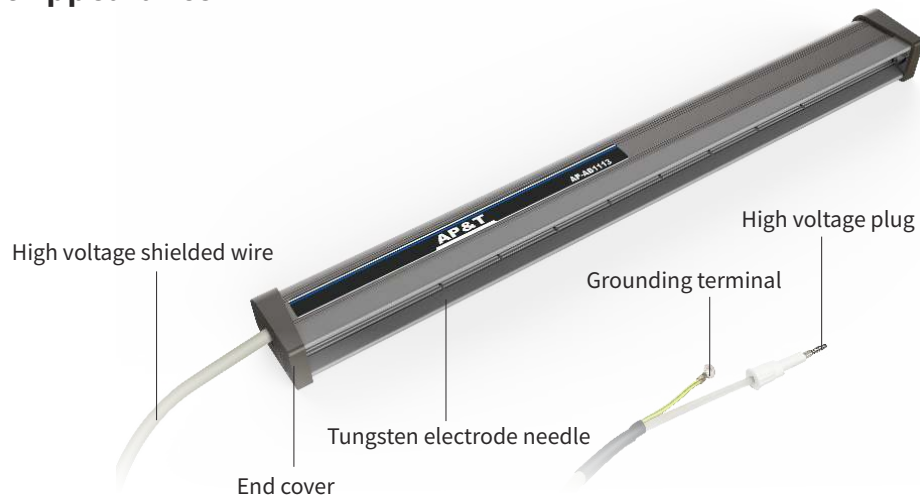
AP-AY2506



## Product Parameter

Model	AP-AB1113		
Work voltage	Length of one ion bar < 1m or length of 2 ion bars in all < 1m: AC5600V Length of one ion bar ≥ 1m or 2 ion bars in all < 1m: AC7000V	Ion emission	Power frequency AC
		Emitter electrode	Tungsten
Discharge speed	≤ 1.0S (Working distance 100mm)	Discharge structure	Resistance coupling
Dimension	L*W*H (150mm → 3000mm) *21mm*32.4mm	Installation distance	30 → 100mm
Supporting power supply	AP-AY1506: length of ion bar < 1m; /AP-AY2506: length of 2 ion bars in all < 1m	Ion balance	≤  ±30V (I AVG)
	AP-AY1504: length of ion bar ≥ 1m; /AP-AY2504: length of 2 ion bars in all ≥ 1m	Working temperature	0° C - 45° C
Discharge range	L*W*H (150mm → 3000mm) *300mm*100mm	Working humidity	< 70%
Length of high voltage connection line	2.5m (Customizable upon request, Maximum 10m)	Material of ion bar body	Flame retardantPVC/AL
Power	20W	Warranty	1 Year
Packaging accessories	M4×20 hexagonal mounting bolts	Certification	CE

## Product Appearance



## Discharge Effect Drawing

	150mm	0mm	150mm
30mm	0.226s	0.013s	0.145s
50mm	0.248s	0.033s	0.166s
70mm	0.352s	0.005s	0.245s
100mm	0.762s	0.044s	0.516s

Trek150 x 150mm Flat Panel Tester

Test Standard: ANSI/ESD.STM3.1.SJ/T 11446-2013

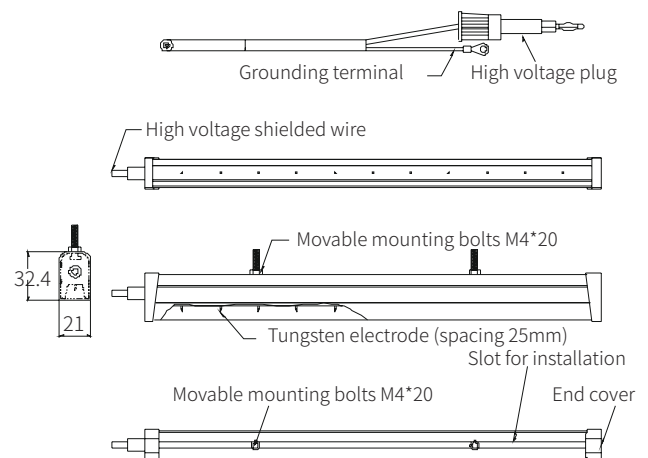
Test Instrument: TREK157 Static Tester

Test Voltage: ±1000V->±100V Attenuation

Test Environment: Humidity: 50±5%

Temperature: 23±3°C

## Product Dimension

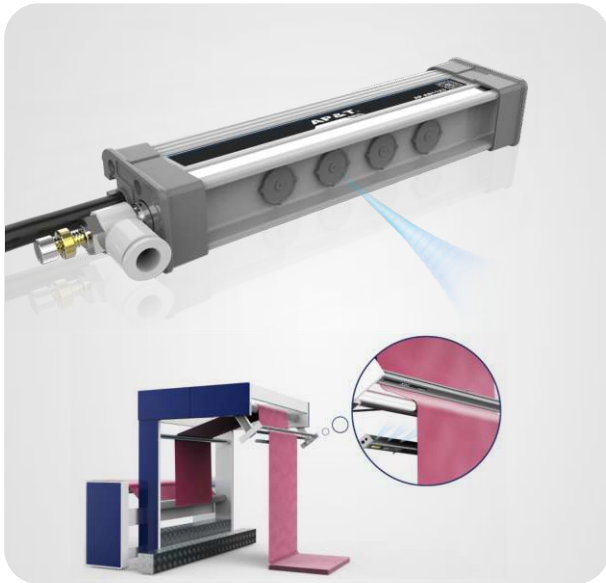


# AP-AB1123

## ELECTRIC SHOCK PROOF HIGH EFFICIENCY AC ION BAR

### Product Profile

AP-AB1123 ion bar adopts power frequency AC static elimination technology. Bar size compact and requires small installation space. It is safe and reliable to work under high voltage, micro current ( $\mu\text{A}$  grade) with high efficiency of static elimination. Tungsten electrode with longer ionization capacity.



### Product Feature

01



#### Electric shock proof

Avoid injuries from accidental human contact

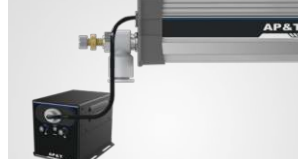
02



#### Easy to replace discharge parts

Easy to replace and reduce the cost of using the equipment

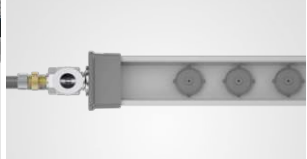
03



#### Power Supply

Standard configured high-voltage Power Supply

04



#### Standard configured tungsten electrode needle

Longer service life of tungsten electrode needle

05

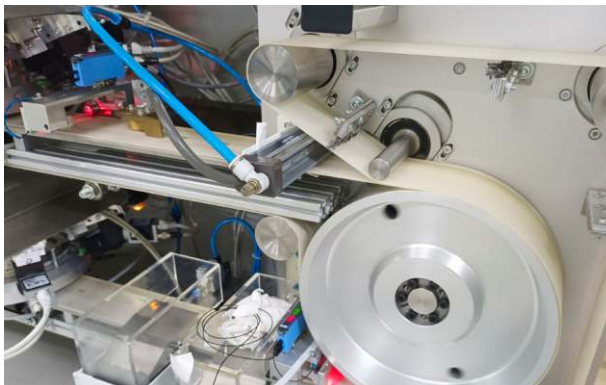


#### CE Certified

Electromagnetic protection function

### Industry Application

Widely used in film, printing, plastics, textiles and other industries.



### Supporting Power Supply

Tows one power supply



AP-AY1504

Tows two power supply



AP-AY2504



AP-AY1506

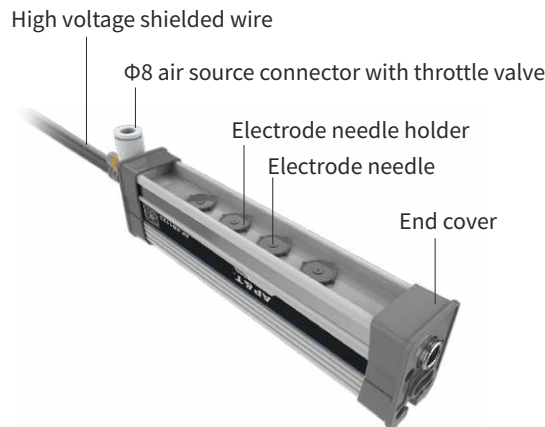


AP-AY2506

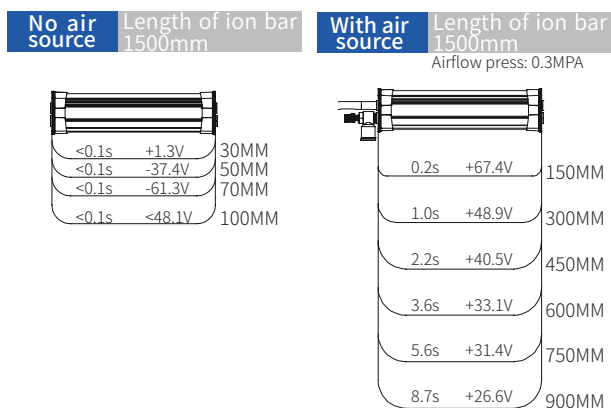
## Product Parameter

Model	AP-AB1123		
Work voltage	length of one bar < 1m or length of 2 ion bars in all < 1m: AC5600V Length of one bar ≥ 1m or length of 2 ion bars in all ≥ 1m: AC7000V	Power	20W
		Ion emission	Power frequency AC
Discharge speed	without air source: ≤ 1.0S (vertical test distance: 100mm) with air source: ≤ 2.0s (vertical test distance 300mm)	Emitter electrode	Tungsten
		Discharge structure	Resistance coupling
Discharge range	Without air source: L*W*H (175mm → 3000mm) *300mm*100mm With air source: L*W*H (175mm → 3000mm) *300mm*600mm	Accessories	M5-12*12*4 square mounting nut
		Ion balance	≤  ±50V ( AVG)
supporting power supply	AP-AY1506: Length of one bar < 1m /AP-AY2506: Length of 2 ion bars in all < 1m AP-AY1504: Length of one bar ≥ 1m /AP-AY2504: Length of 2 ion bars in all ≥ 1m	Compressed air flow	Clean and dry air
		Working temperature	0° C - 45° C
Installation distance	Without air source: 30 → 100mm ; with air source: 100 → 600mm	Working humidity	< 70%
Air source connector with throttle valve	Φ8-G1/8 grey and white	Material of ion bar body	Flame retardant PVC, SUS
Length of high voltage connection line	2.5m (length customizable with maximum size up to 10m)	Warranty	1 Year
Dimension	L*W*H (175mm → 3000mm) *31.2mm*46.5mm	Certification	CE

## Product Appearance



## Discharge Effect Drawing



### Test Standard:

Note: Align head and tail pins at left and right ends with the edge of plate

Test Standard: ANSI/ESD.STM3.1, SJ/T 11446—2013

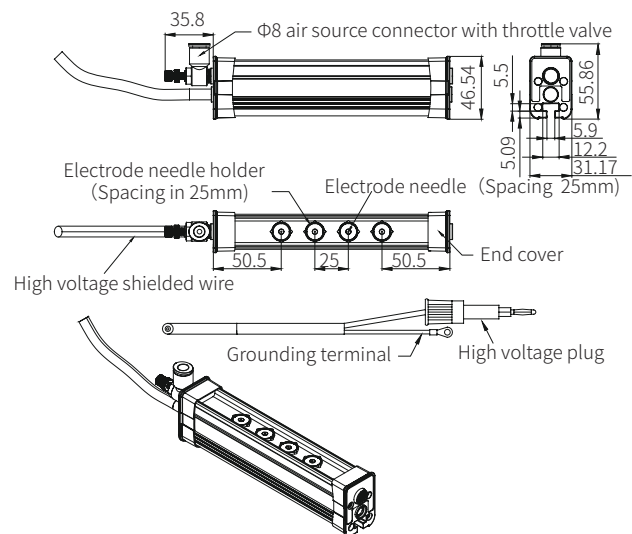
Test Instrument: TREK158A plate charge tester

Test Voltage: ±1000V → ±100V attenuation

Test Environment: Humidity: 50±5%

Temperature: 23±3°C

## Product Dimension

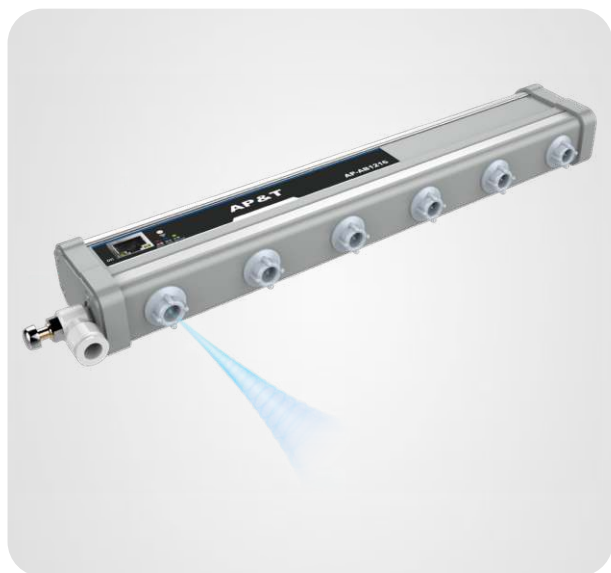


# AP-AB1216

## AIR SOURCE ELECTRIC SHOCK PROOF PULSE ACTION ION BAR

### Product Profile

AP-AB1216 ionizes air molecules by using DC high voltage acting on coupled electrode needle to generate corona discharges, producing large amount of positive and negative air ions and transferring to the surface of objects through compressed air to reach high efficiency of static elimination.



### Product Feature

01



#### Easy Installation

Provide stainless steel mounting angle, fit for different installation environment

02



#### Electric shock proof

Prevent human from electric shock injuries

03



#### Intake throttle valve

G1/8 suitable for  $\phi 8$  tube diameter

04



#### High-voltage alarm indicator

Red light alarm when high voltage abnormal

05



#### CE Certified

Electromagnetic protection function

### Industry Application

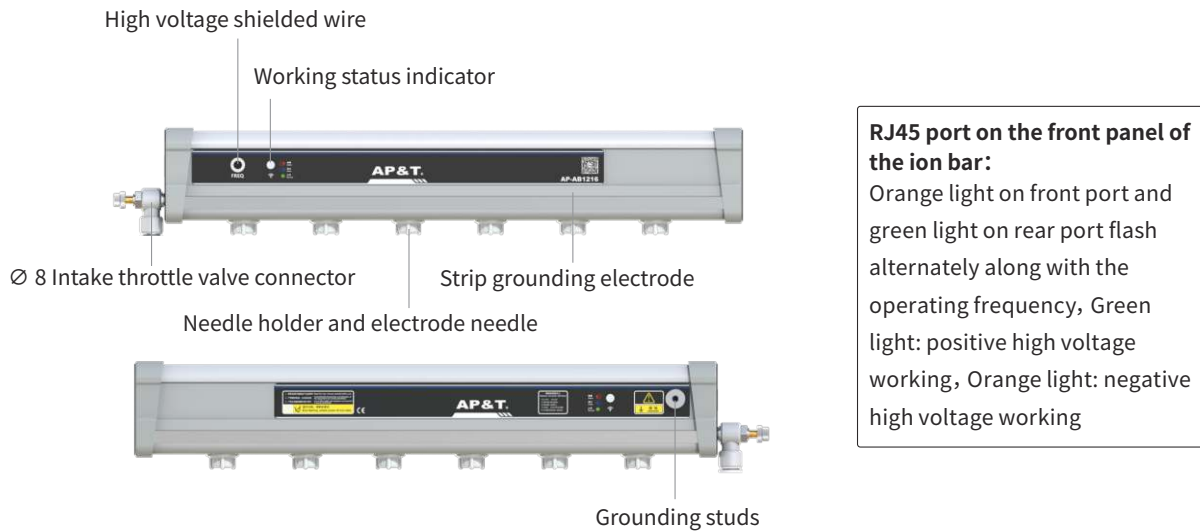
Widely used in electronics, optoelectronics, semiconductor and other industries.



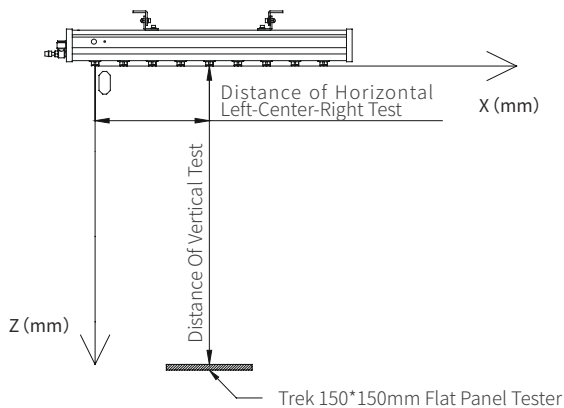
## Product Parameter

Model	AP-AB1216		
Input voltage	DC 24V	Airflow pressure	≤ 0.6MPa
Power	10W	Throttle air source connector	G1/8 for φ8 tube diameter
Output voltage	±4000V~±7000V	Working temperature	0°C -50°C
Ion emission	Pulse AC	Working humidity	< 70%
Emission electrode	Tungsten	Network cable length of supporting power supply	2.5m
Discharge structure	Resistance coupling	Ion bar material	Inflaming PVC、AL、 SUS
Output frequency	0.1, 0.5, 1, 5, 10, 30, 55, 65, 105Hz; (EX-Work setting: 55Hz)	Supporting accessories	GRT-240200: DC24V 2A, Dual network port output, 123*61*40.5mm (L*W*H)
Discharge range	L*W*H: 300*1000mm	Installation accessories	180° rotatable mounting angle
Installation distance	Airless: 30 → 100mm Ventilation: 100 → 1000mm	Dimension L*W*H	{350mm-3000mm (Needle spacing 50mm) }*35m*63.5mm
Ion balance	≤  ±30V  (AVG)	Warranty	1 Year
Discharge speed	≤ 2S (Ventilation, Test distance 300mm)	Certificate	CE
Alarm indicator	Green: normal work, blue:standby, blue flashing: debugging/cleaning, red: high voltage abnormal		

## Product Appearance



## ■ Discharge Effect Drawing



Test standard: ANSI/ESD.STM3.1, SJ/T 11446—2013

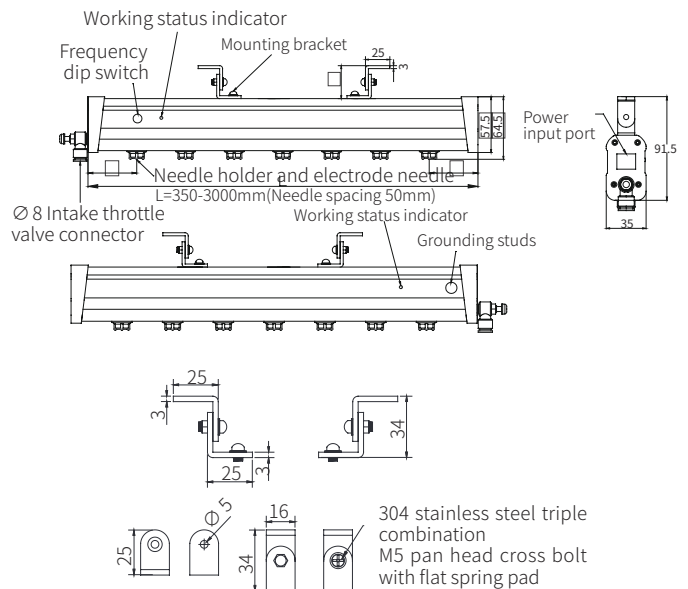
Test instrument: Trek 157 static tester

Test voltage:  $\pm 1000\text{V} \rightarrow \pm 100\text{V}$  attenuation

Test environment: Humidity:  $50 \pm 5\%$

Temperature:  $23 \pm 3^\circ\text{C}$

## ■ Product Dimension Drawing





# AP-DB1217

## ELECTRIC SHOCK PROOF HIGH-POWER HIGH EFFICENCY DC ION BAR

### Product Profile

AP-DB1217 adopts DC static elimination technology, It has excellent ESD performance, which can be used for static elimination on the object surface of high-speed movement and high-friction degrees.



### Product Feature

01



#### Electric Shock Proof

Avoid injuries from accidental human contacts

02



#### Standard configured tungsten needle

Long-time ionization ability

03



#### Power Supply

Standard configured high voltage power supply

04



#### Easy Installation

Bolts can be installed and moved in special designed strip notch on the back of the ion bar

05



#### CE Certified

Electromagnetic protection function

### Industry Application

Widely used in plastics, film, printing and other industries.



### Supporting Power Supply

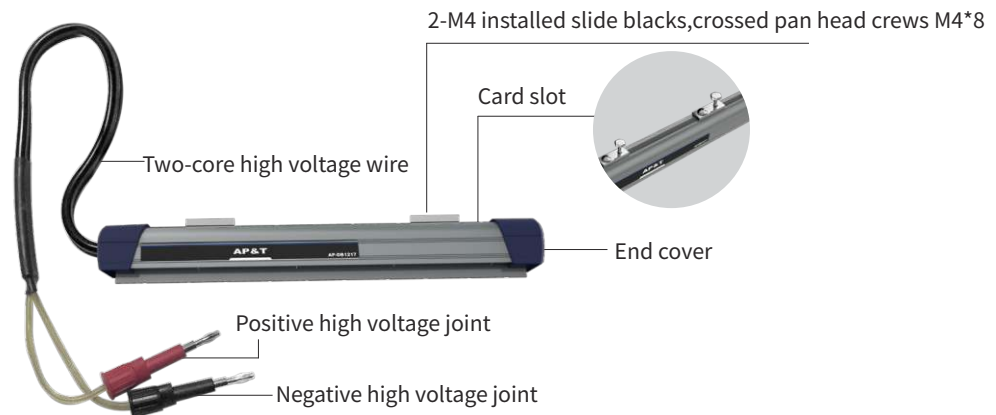


AP-DC7201

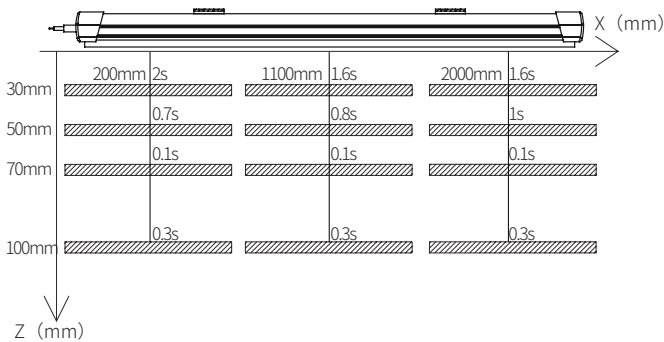
## Product Parameter

Model	AP-DB1217		
Working Voltage	DC $\pm 6000 \rightarrow \pm 10000V$	Working temperature	0°C -50°C
Input Voltage	< 400 $\mu A$	Working Humidity	< 70%RH
Power	10W	Dimension	L*W*H: {190-3010mm}*28*36mm
Ion balance	$\leq  \pm 30V $	Bar body material	Flame retardant PVC
Discharge time	$\leq 1S$	Ion bar length	190 $\rightarrow$ 3010mm
Ion emission	DC	Installation accessories	2-M4 mounting slide blocks, crossed pan head screws M4*8
Emission electrode	Tungsten	High voltage wire length	2.5m
Discharge structure	Resistance coupling	Supporting power supply	AP-DC7201
Discharge range	L*H: {190-3010mm}*100mm	Warranty	1 Year
Installation distance	30 $\rightarrow$ 100mm	Certificate	CE

## Product Appearance



## Discharge Effect Drawing



Test Standard: ANSI/ESD.STM3.1, SJ/T 11446—2013

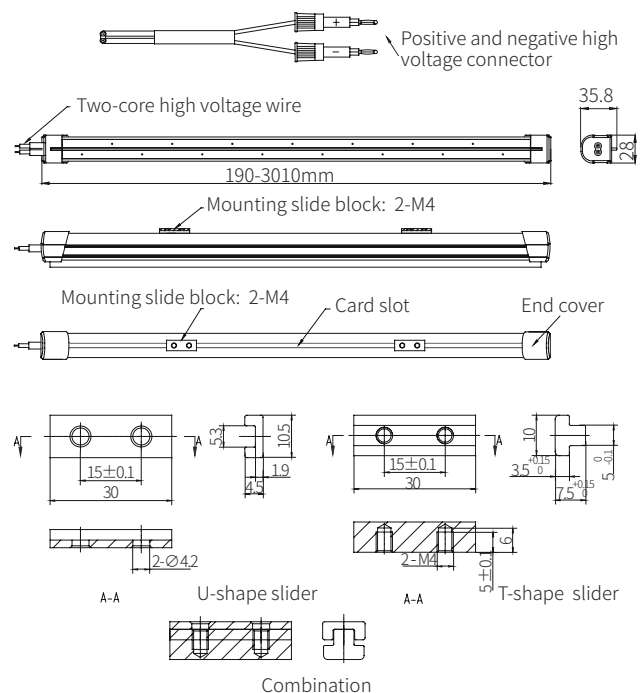
Test Instrument: TREK157 static tester

Test Voltage:  $\pm 1000V \rightarrow \pm 100V$  attenuation

Test Environment: Humidity: 50 $\pm$ 5%

Temperature: 23 $\pm$ 3°C

## Product Dimension Drawing



# AP-AB1218

## AIR SOURCE ANTI-ELECTRIC SHOCK PULSE ACTION ION BAR

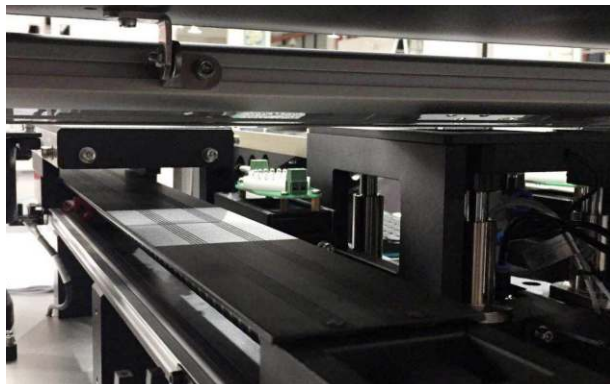
### Product Profile

AP-AB1218 ionizes air molecules by using DC high voltage acting on coupled electrode needle to generate corona discharges, producing large amount of positive and negative air ions and transferring to the surface of objects through compressed air to reach high efficiency of static elimination.



### Industry Application

Widely used in electronics, optoelectronics, semiconductor and other industries.



### Product Feature

01



#### Easy Installation

Stainless steel mounting angle provided for different installation environment

02



#### Electric shock proof

Prevent human from electric shock

03



#### Intake throttle valve

The specification is  $\Phi 8$ -G1/8 grey

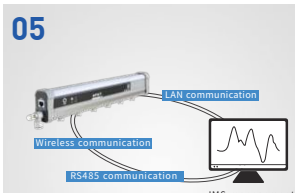
04



#### Working status visualization

Red light alarm when high voltage abnormal

05



#### Network Monitoring

Wired network communication realisable and monitor the working status of the ion bar

06



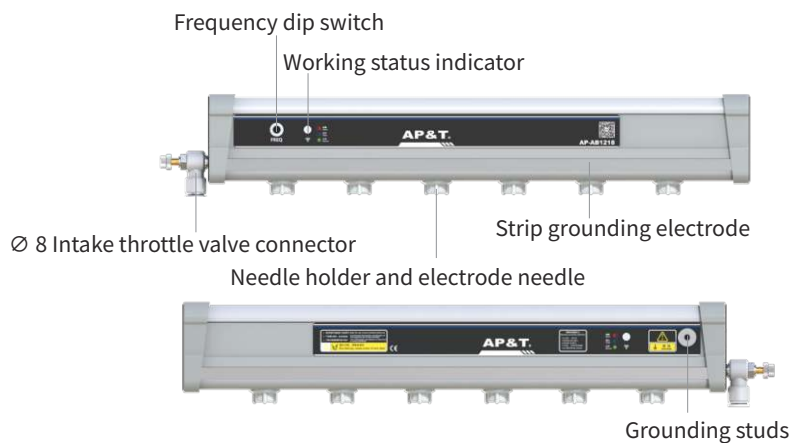
#### CE Certified

Electromagnetic protection function

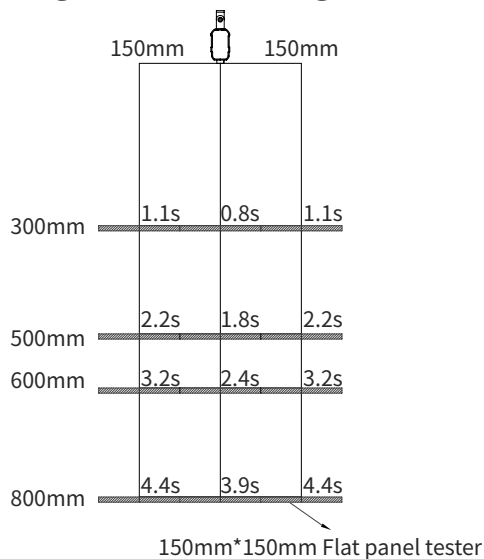
## Product Parameter

Model	A P - D B 1 2 1 8 ( External PLC )		
Input voltage	DC 24V	Ion bar body length	L*W*H: {350-3000mm (Needle spacing 50mm) }*35*64.5mm
Input current	< 600mA	Communication function	RS485
Power	10W	Signal output	Open collector 50V/100mA
Output voltage	±4000 -7000V	Airflow pressure	≤ 0.6MPa
Ion emission	Pulse AC	Connector with throttle valve	G1/8 for φ8 tube diameter
Emission electrode	Tungsten	Working temperature	0°C -50°C
Discharge structure	Resistance coupling	Working humidity	< 70%
Output frequency	0.1, 1, 3, 5, 10, 20, 30, 50, 70, 80, 100Hz; (Default setting: 50Hz)	Installation accessories	180° rotatable mounting angle, Square nuts
Discharge range	L*W*H: {350-3000mm (Needle spacing 50mm) }*300*1000mm	Alarm indicator	Green light-Normal working, Blue light-Standby, (Blue light flashing-Debugging/Cleaning
Installation distance	100 → 1000mm	Ion bar body material	Inflaming PVC、AL、 SUS
Ion balance	≤  ±30V  (AVG)	Warranty	1 Year
Discharge time	≤ 2S	Certificate	CE

## Product Appearance

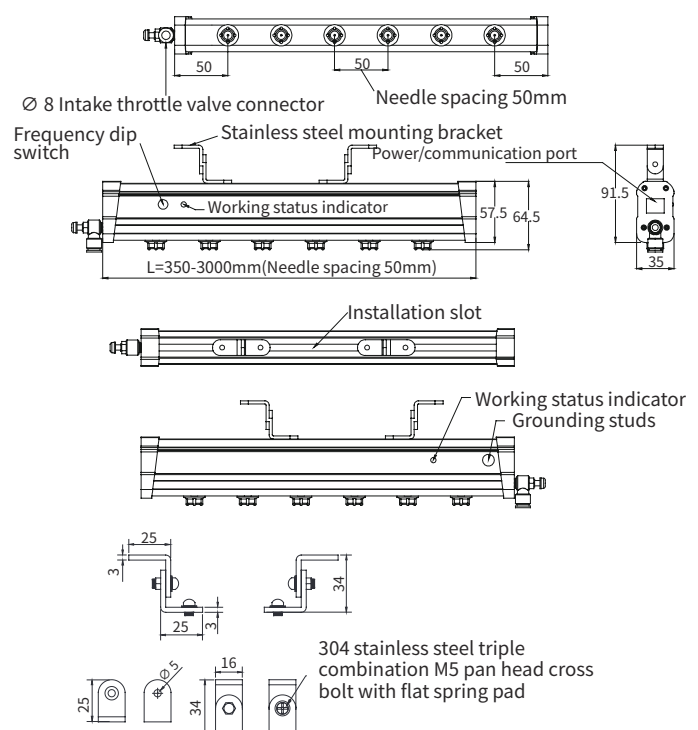


## Discharge Effect Drawing



Test standard: ANSI/ESD.STM3.1, SJ/T 11446—2013  
 Test instrument: Trek flat panel static tester  
 Test voltage: ±1000V → ±100V attenuation  
 Test environment: Humidity: 50±5%  
 Temperature: 23±3°C

## Product Dimension Drawing



# AP-DB1223

## LONG DISTANCE SPACE STATIC ELIMINATION BAR

### Product Profile

AP-DB1223 space ion bar is the bar type static elimination device to eliminate clean space static electricity. It is suitable for space static elimination by special designed discharge structure and dedicated Si electrode configuration. Sound and light alarm when high voltage is abnormal. The product can meet various requirements based on 7 kinds of different length to save the quantities and workload of supporting power supply and ion bar installation.



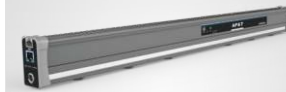
### Industry Application

Widely used in electronics, semiconductor, optoelectronics and other industries.



### Product Feature

01



#### Special designed structure

More conducive to improve eliminate static electricity

02



#### Electric shock proof

Avoid injuries from accidental human touch

03



#### Indicator light

Green: Normal work  
Blue: Infrared adjustment/suspend work/cleaning instrument  
Red: High-voltage abnormal alarm

04



#### Series Powering

Support series powering in the head and tail to simplify wiring, Each power supply can support 2 space ion bars.

05



离子棒总长度L=750+100n (n=0, 1, 2, 3, 4, 5, 6)

#### Electric shock proof

Avoid injuries from accidental human touch

06



#### Intelligent remote control

Set the cleaning time, Adjust ion balance and output frequency

07



#### CE Certified

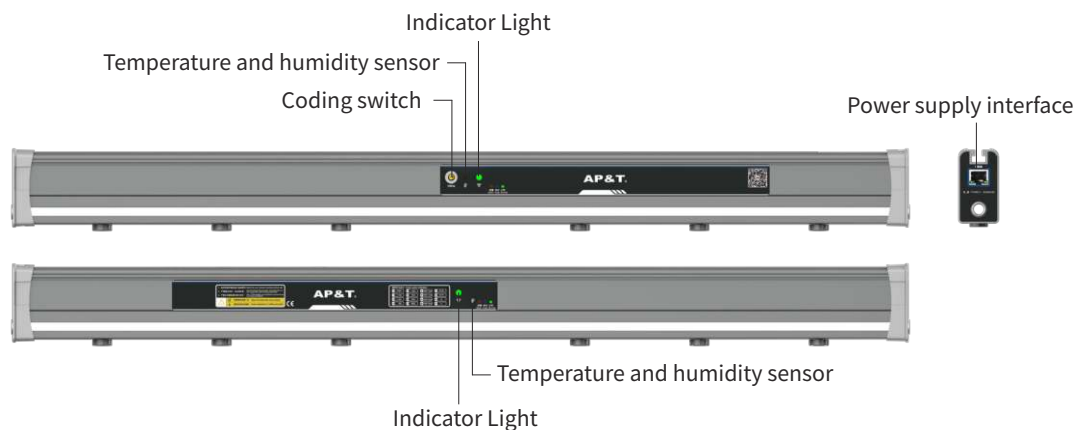
Electromagnetic protection function



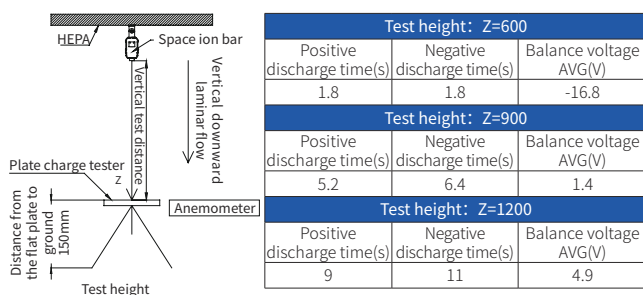
## Product Parameter

Model	AP-DB1223			
Input voltage	DC 24V	Output frequency	0.01, 0.03, 0.05, 0.07, 0.1, 0.3, 0.5, 0.7, 1, 3, 5Hz	
Power	< 5.5W		EXW setting: 5Hz, Parameters can be adjusted by the code switch or remote control	
Working voltage	±10KV-15KV	Alarm indication	Green-Normal working/Red-High voltage abnormal/Blue-Debugging/Cleaning	
Ion emission	Pulse DC		RJ45 port indicator light: Green- Powering indicator Orange light-Flashing with operating frequency	
Emission electrode	Si	Status indication	Green light-Normal working/Red light-High voltage abnormal/Blue light-Debugging/Cleaning	
Duty factor	5%—95% (Parameters can be adjusted by remote control)		RJ45 port indicator light: green light-powering indicator, orange light-flashing with operating frequency	
Ozone thickness	< 0.1ppm (50mm away from the emission electrode)	Status monitoring	RS485 (115200bps, 8, 1, n, n) ≥ 30ms	
Working Temperature	0°C -50°C		Open collector: < 50V, 100mA	
Working Humidity	< 70%	Dimension	L*W*H: {750, 1150, 1550...→ 3150}*36*68mm	
Installation Accessories	Rotated 180° rotatable mounting angle, M5-12*12*4-square nuts	Power adapter	GRT-240200: DC24V 2A, dual network port output, 123*61*40.5mm (L*W*H)	
Warranty	1 Year	Ion bar body material	Inflaming retardant PVC, ABS	
Certificate	CE	Power cord	2.5m	

## Product Appearance



## Discharge Effect Drawing



Test standard: ANSI/ESD.STM3.1, SJ/T 11446—2013

Test instrument: Trek charge plate tester

Test voltage: ±1000V → ±100V attenuation

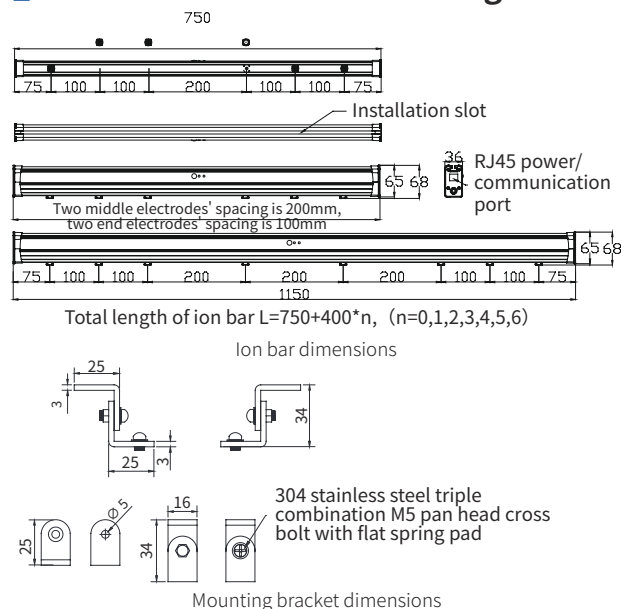
Test environment: Humidity: 50±5%

Temperature: 23±3°C

HEPA (FFU) Airflow speed: 0.35-0.5m/s

Working frequency: 5Hz

## Product Dimension Drawing



# AP-AB1226

## HIGH-SPEED INTELLIGENT STATIC ELIMINATION ION BAR

### Product Profile

AP-AB1226 ion bar adopts pulse AC static elimination technology. It can eliminate static in short or long distance. It has the strong ion output based by 25mm narrow needle spacing design.



### Product Feature

01



#### Discharge parts easy to be replaced

Standard configured tungsten alloy needle, long-time ionization ability

02



#### Indicator Light

Green: Normal working  
Blue: Standby  
Blue: Flash-Debug/Clean  
Red: High-voltage abnormal alarms

03



#### Power cord

Standard configured DC24V high-flexible drag chain power cord

04



#### Remote Control

Adjust ion balance and output frequency

05



#### Easy Installation

Provide installation accessories of M5 sheet slide nuts

06



#### CE Certification

Electromagnetic protection function

### Industry Application

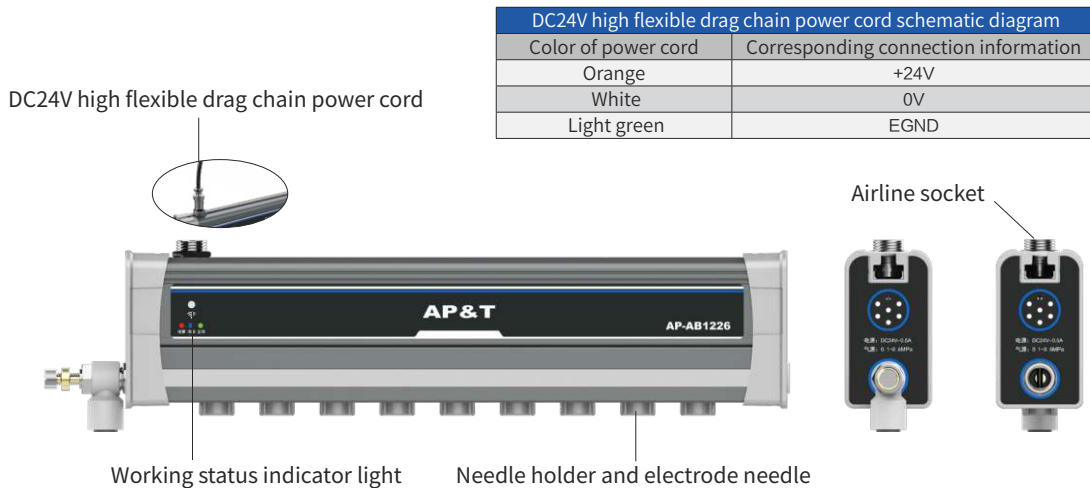
Widely used in inkjet, UV Flat plate, semiconductor, optoelectronics and other industries.



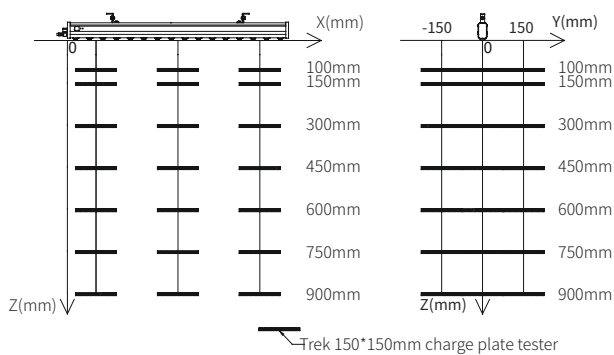
## Product Parameter

Model	AP-AB1226		
Input voltage	DC 24V	Discharge time	≤ 1S (Test distance 300mm)
Power	< 5W (Factory Default)	Working temperature	0°C -50°C
Output voltage	4000V → 7000V	Working humidity	< 70%
Ion emission	Pulse AC	Airflow press	0.1-0.6MPa
Emission electrode	Tungsten	Air source connector with throttle valve	Φ8-G1/8 grey and white
Output frequency	55Hz	Dimension	L*W*H: {200, 225, 250... → 500mm(needle spacing 25mm)}*36*68.2mm
Duty factor	5%—95%	Material of ion bar body	Inflaming retarding PVC、ABS、SUS
Discharge range	L*W*H: Length of one bar*200*100mm	Installation accessories	M5-12*12*4 square nuts; DC24V high flexible drag chain power cord 1500mm
Installation distance	100 → 1000mm	Warranty	1 Year
Ion balance	≤  ±30V  (AVG)	Certification	CE
Status indicator	Green Light-normal work, Blue light-standby, Blue light flashing-debug/clean, Red light-high voltage abnormal		

## Product Appearance



## Discharge Effect Drawing



The first and last pins in the right and left ends of the ion bar are aligned the edge of the flat plate.

Test standard: ANSI/ESD.STM3.1, SJ/T 11446—2013

Test instrument: Trek charge plate tester

Test Voltage: ±1000V → ±100V attenuation

Test Environment: Humidity: 50±5%; Temperature: 23±3°C

Airflow press: 0.3MPa Ion rod length: 500mm

## Product Dimension

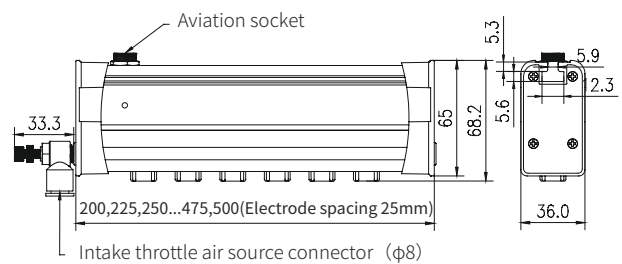


Fig.1: Ion Bar Dimension Drawing

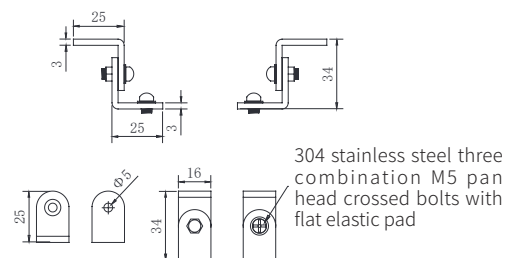


Fig.2: Mounting angle dimension drawing

# AP-AB1228

## INTELLIGENT SELF-BALANCING STATIC ELIMINATION ION BAR

### Product Profile

AP-AB1228 adopts pulse AC static elimination technology with airflow acceleration structure which can realize 2 times discharge speed more than traditional structure. It can realize the online communication and working status of ion bar can be monitored.



### Industry Application

Widely used in electronics, semiconductor, optoelectronics or other industries.



### Product Feature

01



#### Electric shock proof

Avoid injuries from accidental human contact

02



#### Discharge parts replaced easily

Easy to replace, standard configured tungsten needle, long-time ionization ability

03



#### Fast Discharge

Ion nozzle has airflow acceleration structure which can realize 2 times discharge speed more than traditional structure

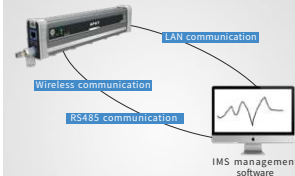
04



#### It's convenient to replace the discharge components

It can be replaced by rotating the needle holder at counter-clockwise direction when the discharge needle is damaged and required for replacement

05



#### Online communication

Monitoring the working status of ion bar

06



#### Remote Control

Adjust ion balance and output frequency

07



#### Self-balancing voltage

Excellent ability of ion balance

08



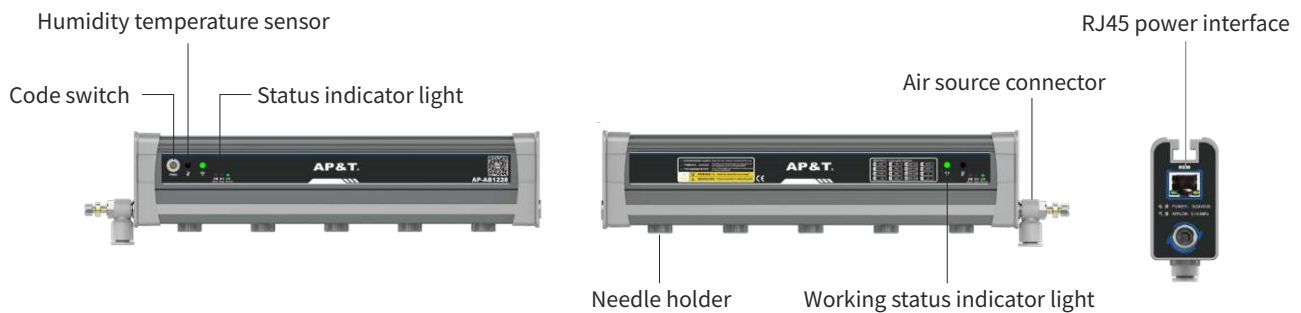
#### CE Certification

Electromagnetic protection function

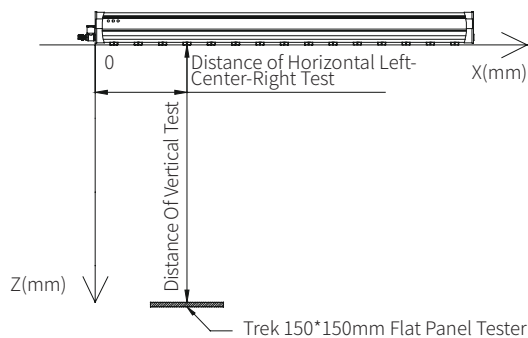
## Product Parameter

Model	AP-AB1228		
Input voltage	DC 24V	Working temperature	0°C -50°C
Input current	< 600mA	Working humidity	< 70%
Power	10W	Status monitoring	RS485 communication, device can be on-line monitored in series network
Ion emission	Pulse AC	Working voltage	$\pm 4000V \sim \pm 7000V$
Emission electrode	Tungsten	Air source connector with airflow valve	$\Phi 8$ -G1/8 grey and white
Discharge structure	Resistance coupling	Discharge time	L*W*H: {200-2900 (Needle spacing 50mm)}*300*1000mm
Duty factor	5%—95%	Status indicator	Green Light-normal work, blue-standby, blue light flashing-debug/ clean, red light-high voltage abnormal
Installation distance	50 → 1000mm	Output frequency	0.1, 0.5, 1, 5, 10, 30, 55, 65, 105Hz; (Factory default: 105Hz)
Ion balance	$\leq  \pm 30V $ ( AVG)	Dimension	L*W*H: {300-3000 (Needle spacing 50mm)}*36*68.2mm
Discharge time	$\leq 2S$	Product material	Inflaming retarding PVC、ABS、SUS
Airflow pressure	$\leq 0.6MPa$	Installation Accessories	180° rotatably mounting angle, M5-12*12*4square nuts
Clean instruction	Default 15 days	Supporting power supply	GRT-240200 DC24V 2A P/N:1/2+ 5/6- metal network interface PE
Warranty	1 Year		Dual network interface outputs L*W*H: 123*61*40.5mm
Certification	CE	length of supporting power network cord	2.5m

## Product Appearance



## Discharge Effect Drawing



Test standard: ANSI/ESD.STM3.1, SJ/T 11446—2013  
 Test instrument: Trek charge plate tester  
 Test Voltage:  $\pm 1000V \rightarrow \pm 100V$  attenuation  
 Test Environment: Humidity:  $50 \pm 5\%$   
 Temperature:  $23 \pm 3^\circ C$

## Product Dimension

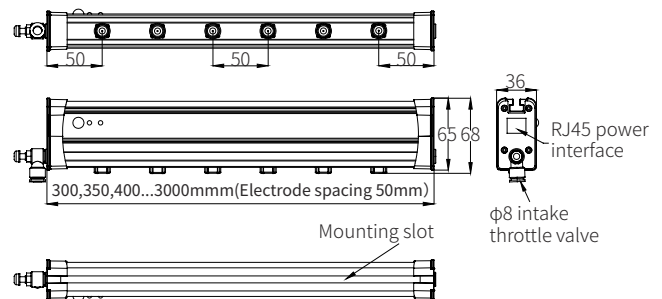


Fig.1: Ion Bar Dimension Drawing

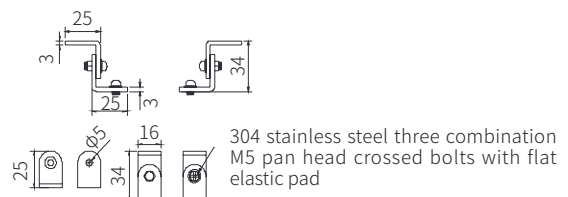


Fig.2: Mounting angle dimension drawing



# AP-AB1602A

## EXPLOSION-PROOF ION BAR

### Product Profile

AP-AB1602A ion bar adopts power frequency AC static elimination technology with explosion certification. Explosion-proof level of the product is Ex sb IIB T4 Gb, Explosion-proof certificate number GYB21.3386X. It can eliminate static electricity in the inflammable and explosive working place. It works safely and reliably under high voltage and low current ( $\mu\text{A}$  class) working status.



### Product Feature

01



#### Electric shock proof

Avoid being injured by accidental human contact

02



#### Power Supply

Standard configured high-voltage power supply

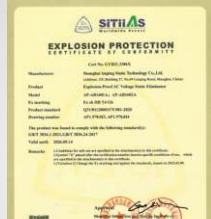
03



#### Power Supply

Standard configured high-voltage power supply

04



#### Explosion-proof certificate

Used in corresponding level to IIB or lower level inflammable explosion working place

05

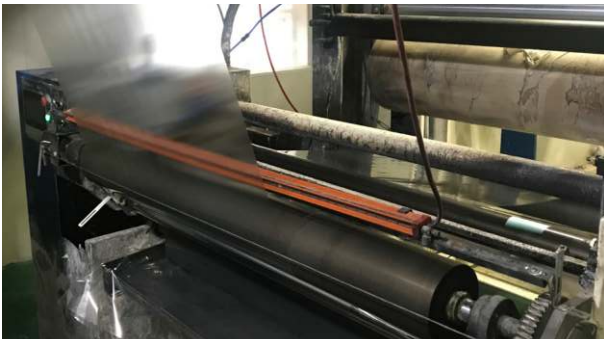


#### CE Certification

With electromagnetic protection function

### Industry Application

It can be widely used in printing, plastics, textiles, coating, chemical industry with inflammable conditions.



### Supporting Power Supply

Tows one power supply

Tows two power supply



AP-AY1604



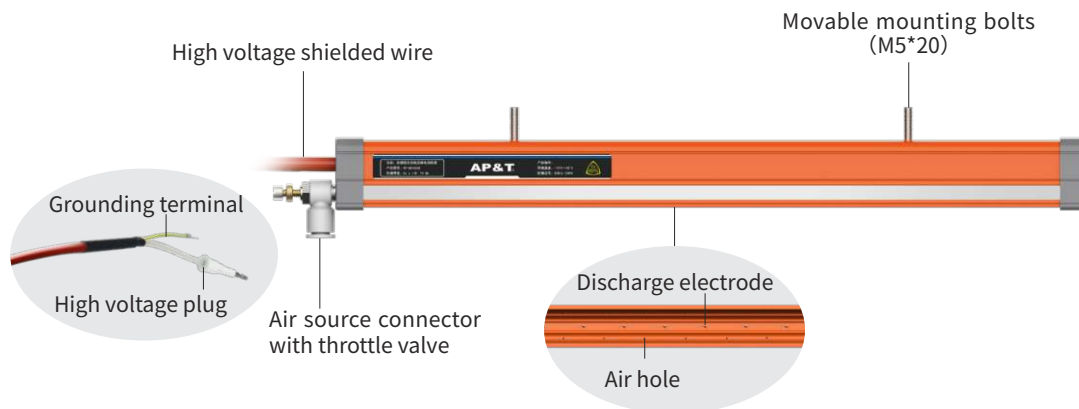
AP-AY2604



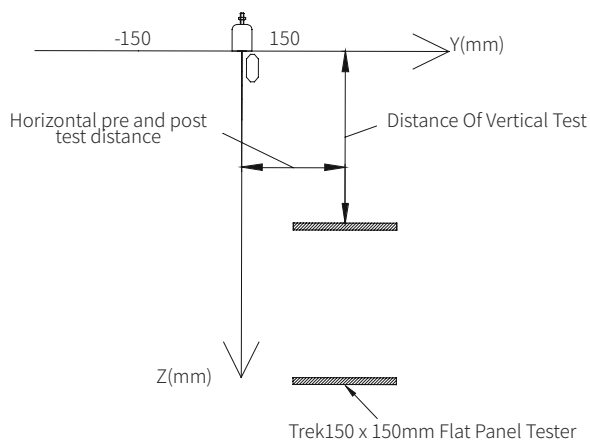
## Product Parameters

Model	AP-AB1602A		
Explosion-proof level	Ex sb IIB T4 Gb	Air source connector with throttle valve	Φ8-G1/8 off-white
Explosion certificate No.	GYB21.3386X	Ion balance	$\leq  \pm 50V $
Working voltage	Power frequency $\leq AC7000V$	Discharge speed	$\leq 2.5S$ (Test data may vary with test conditions)
Power	20W	Working temperature	0°C - 50°C
Ion emission	Power frequency AC	Working humidity	< 70%
Emitting electrode	SUS	Bar body material	Flame retardant PVC、AL
Discharge structure	Resistance coupling	Dimension (L*W*H)	(110mm → 3000mm) *28.6mm*38.7mm
Electrode high voltage	$\leq 7000V$	Installation Accessories	Hex bolt M5*20
Electrode pin bonding capacitance	< 3.5pF	Supporting Power Supply	AP-AY1604/2604
Discharge range (L*W*H)	(150mm → 3000mm) *300mm*600mm	Length of high voltage connecting line	2.5m (Customizable upon request. Maximum 8m)
Installation Distance	100 - 600mm	Warranty	1 Year
Airflow pressure	$\leq 0.6MPa$	Certification	CE

## Product Appearance



## Discharge Effect Drawing



## Product Dimension

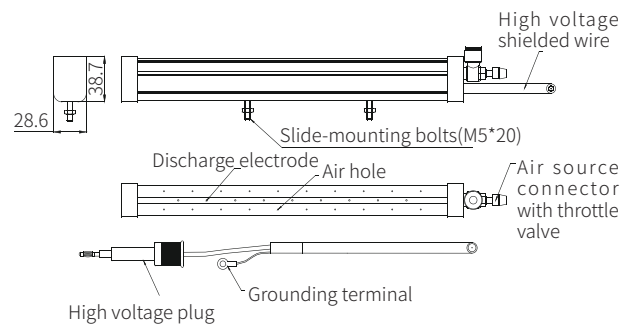


Fig 1:Structural dimension drawing

Test Standard: ANSI/ESD.STM3.1, SJ/T 11446-2013

Test Instrument: MONROE 268A-1T Static Tester

Test Voltage:  $\pm 5000V \rightarrow \pm 500V$  attenuation

Test Environment: Humidity: 50 $\pm$ 5%

Temperature: 23 $\pm$ 3°C

# AP-DC2451-001

## AUTO-CLEANING DESKTOP IONIZING AIR BLOWER

### Product Profile

AP-DC2451-001 ionizing blower ionize air molecules by corona discharges through DC high voltages with positive and negative synchronous emission electrodes, producing large amount of positive and negative air ions which are transferred to the surface of the target object by axial flow fan for static elimination.



### Product Feature

01



**Standard configured tungsten needle**

With long-service life

02



**Automatic needle brushing**

Automatic needle brushing when powered on. Automatic needle brushing once as per 8 hours

03



**Power supply**

Configure the dedicated external power adaptor

04

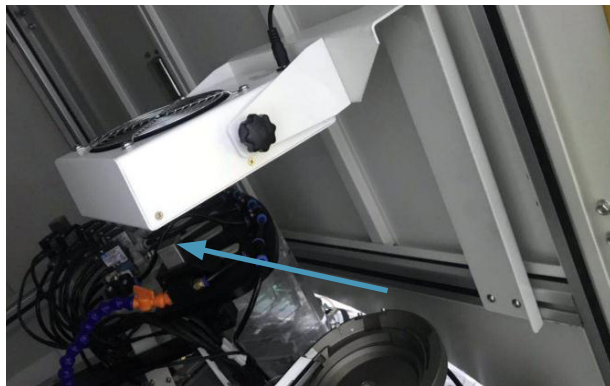


**CE Certification**

With electromagnetic protection function

### Industry Application

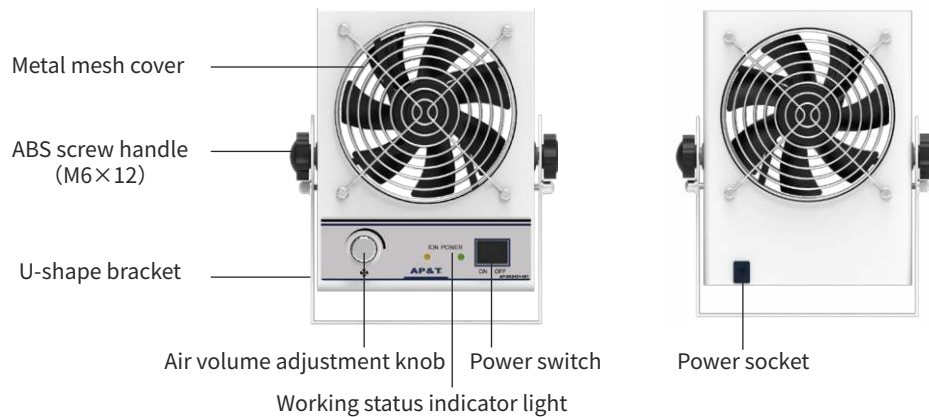
Widely used in electronics, optoelectronics, semiconductor and other industries.



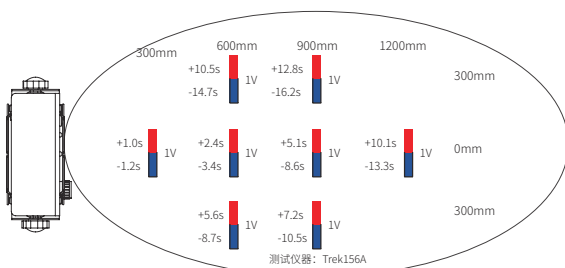
## Product Parameters

Model	AP-DC2451-001		
Input voltage	15V	Ozone thickness	≤ 0.05ppm (150mm away from the wind outlet)
Power	9W	Working temperature	0-50°C
Working voltage	±DC4000-DC7000V	Working humidity	30-70%RH
Ion Emission	Stable DC	Dimension	140*55*185mm (L*W*H) (Air blower body dimension)
Emission electrode	Tungsten alloy	Outer shell size	Aluminum powder spray coating
Discharge structure	Uncoupled electrical contact(dis-charge cylinder)	Supporting power supply	INPUT: 100-240V 50/60Hz
Discharge range	750*300mm (L*W)		OUTPUT: DC15V 1000mA
Discharge speed	≤ 2.0s (300mm right ahead of the air outlet)	Installation accessories	One pair of U-shape aluminum powder spray coating mounting bracket, One pair of ABS screw handle(M6 x 12)
Ion balance	≤  ±10V  (300mm right ahead of the air outlet)	Alarm indicator	Blower under normal working status when power indicator light is on
Net weight	0.85kg	Gross weight	1.35kg (including: one external power adaptor )
Air volume	≤ 89.1CFM	Warranty	1 Year
Audio noise	≤ 43db (1m away from the air outlet)	Certificate	CE

## Product Appearance



## Discharge Effect Drawing



Test standard: ANSI/ESD.STM3.1, SJ/T 11446—2013

Test instrument: Trek157 static tester

Test voltage: ±1000V → ±100V attenuation

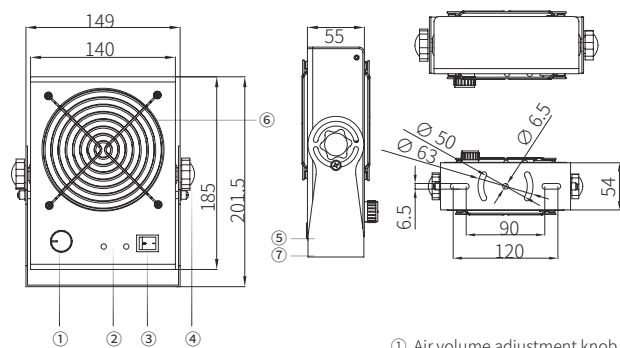
Test environment: Humidity: 50±5%

Temperature: 23±3°C

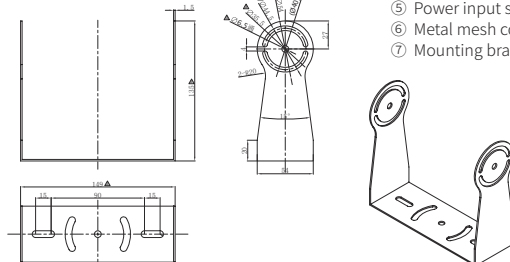
Test data diagram below (Test distance: 300mm right front, Maximum wind speed)



## Product Dimension



- ① Air volume adjustment knob
- ② Indicator light
- ③ Power switch
- ④ Mounting ABS screw handle
- ⑤ Power input socket
- ⑥ Metal mesh cover
- ⑦ Mounting bracket



# AP-DC2453

## MINI IONIZING AIR BLOWER

### Product Profile

AP-DC2453 ionizing air blower adopts DC working method with impact and small size, which can be installed inside the device for static elimination. Low power consumption and long service life, it is safe, reliable with stable performance.



### Product Feature

01



**Standard configured tungsten needle**  
With longer service life

02



**Three-speed adjustment**  
Wind speed can be adjusted in high, middle and low three gears

03



**Power supply**  
Configure the dedicated external power adaptor

04



**Mini Style**  
Can be installed inside devices for static elimination

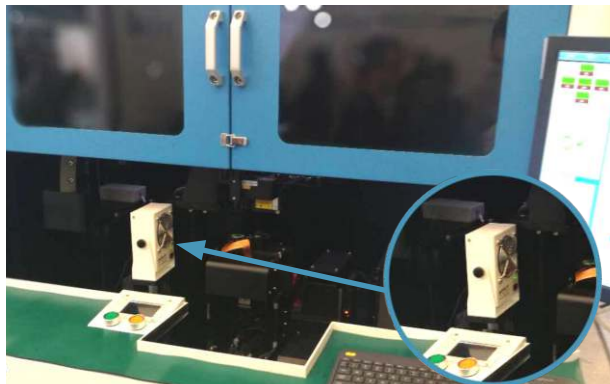
05



**CE Certification**  
With electromagnetic protection function

### Industry Application

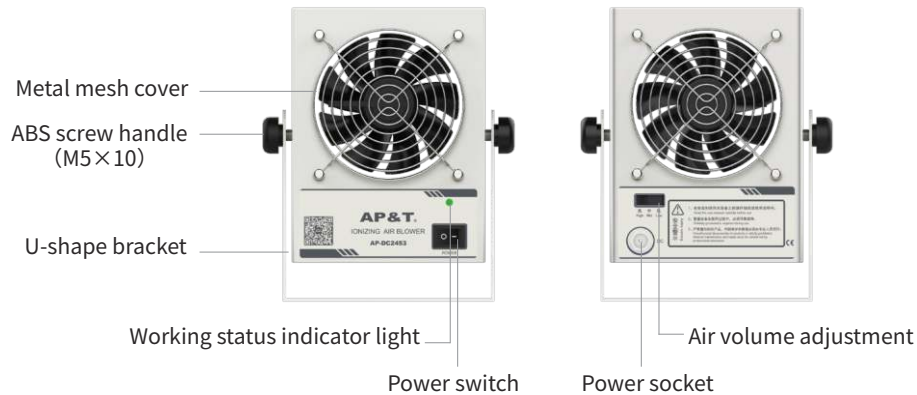
Widely used in electronics, optoelectronics, semiconductor and other industries.



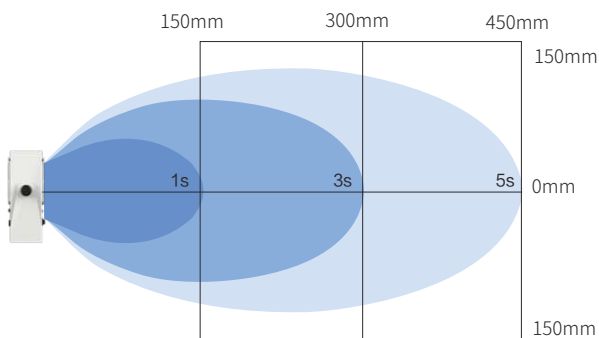
## Product Parameters

Model	AP-DC2453		
Input voltage	DC12V	Ozone thickness	≤ 0.05ppm (150mm away from the air outlet)
Power	5.5W	Working temperature	0-50°C
Working voltage	±DC3000-DC5000V	Working humidity	30-70%RH
Ion emission	Steady-state DC	Dimensions	113*54*129mm (L*W*H)
Emitter electrode	Tungsten Alloy	Outer shell material	Aluminum powder coating
Discharge structure	Uncoupled electric contact (discharge cylinder)	Installation accessories	1 pair of U-shaped aluminum spray powder mounting bracket, 1 pair of ABS screw handles(M5×10)
Discharge range	450*300mm (L*W)	Supporting power supply	INPUT: AC100-240V 50/60Hz
Discharge speed	≤ 1.5s (150mm right ahead the air outlet)		OUTPUT: DC12V 1000mA
Ion balance	-15V ~ +15V (150mm away from the air outlet)	Net weight	Approx 446.9g (Ionizing air blower including mounting bracket and ABS screw handle)
Alarm indicator	The power indicator light on indicates working normally	Gross weight	724.3g
Air volume	≤ 48.2CFM	Warranty	1 Year
Audio noise	≤ 38.9db (1m away from the air outlet)	Certification	CE

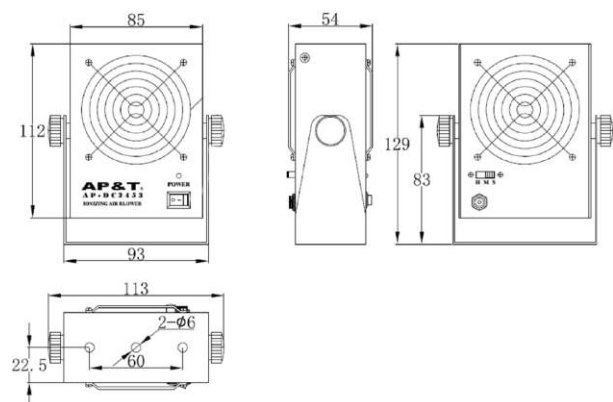
## Product Appearance



## Discharge Effect Drawing



## Product Dimension



Test standard: ANSI/ESD.STM3.1, SJ/T 11446—2013  
 Test instrument: TREK157 static tester  
 Test voltage: ±1000V → ±100V attenuation  
 Test environment: Relative humidity: 50±5%  
 Temperature: 23±3°C

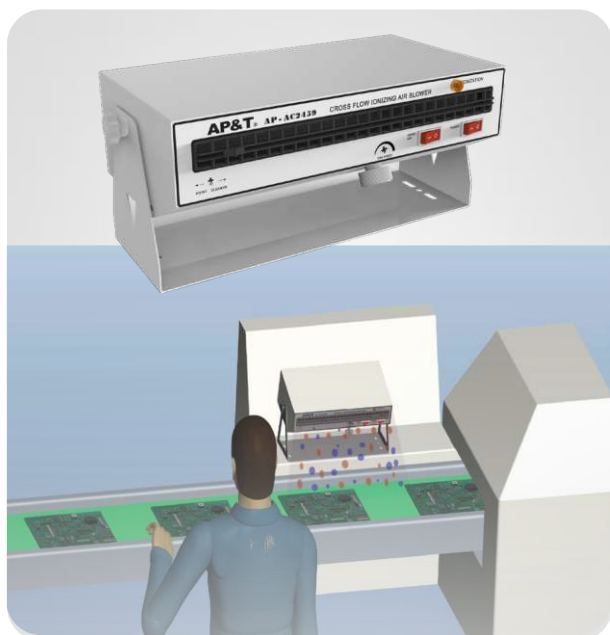


# AP-AC2459

## CROSS FLOW IONIZING AIR BLOWER

### Product Profile

AP-AC2459 cross flow ionizing air blower produces corona discharges through AC high voltage to ionize air molecules, producing large amounts of positive and negative air ions which are transferred onto the surface of the object for static elimination.



### Product Feature

01



**Wide range of Static Elimination**  
Wide range, large coverage area by wide range and long distance ionic airflow High-speed static elimination Lower balanced voltages

02



**Built-in electrode cleaning device**  
Easy maintenance and cleaning Ensure the optimal working status

03



**Stepless fan speed adjustment**  
Stable performance

04



**CE Certification**  
With electromagnetic protection function

### Industry Application

Widely used in electronics, plastics, chemicals, printing, optoelectronics and other industries.

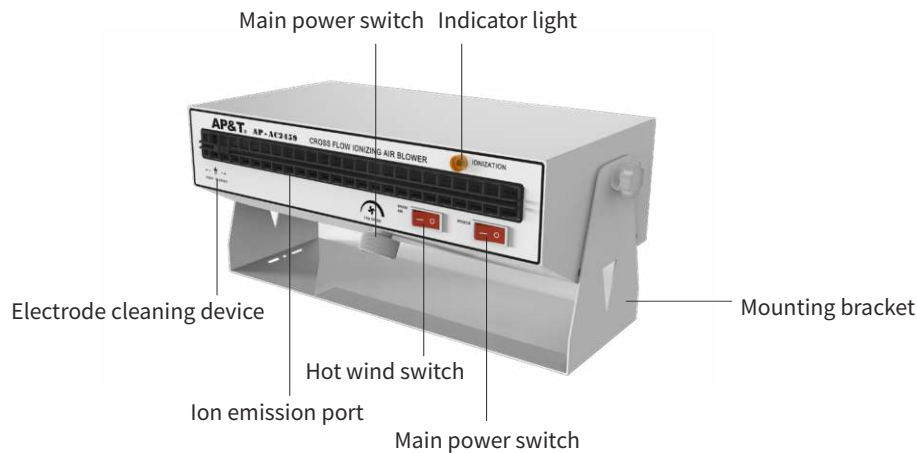




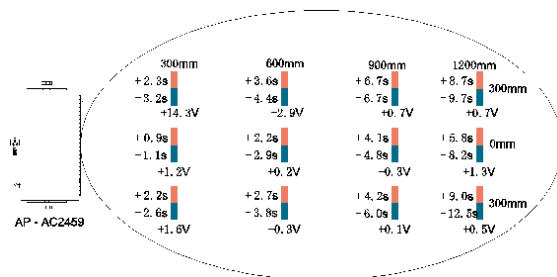
## Product Parameters

Model	AP-AC2459		
Input voltage	AC220V/50Hz or AC110V/60 Hz	Air volume	70 ~ 120CFM
Working voltage	AC3500V	Noise	≤ 55db (1m away from the air outlet)
Ion emission	Power frequency AC	Ozone thickness	≤ 0.03ppm (150mm away from the air outlet)
Emitter electrode	Tungsten Alloy	Working temperature	0 ~ 50°C
Discharge structure	Uncoupled electrical contact	Working humidity	30-70%
Power	50W/250W (Heating)	Dimension	390*216*151mm (L*W*H) (Blower body size)
Ion balance	≤  ±10V  (300mm right ahead of the air outlet)	Discharge range	360 × 750mm(W*L)
Alarm indicator	indicator light on for normal working	Net weight	Approx 7400g
Discharge speed	≤ 2s (300mm right ahead of the air outlet)	Gross weight	Approx 8200g (installation accessories included)
Installation accessories	One pair of U-shape aluminum powder coating mounting bracket, One pair of bakelite screw handle (M8*16)		

## Product Appearance



## Discharge Effect Drawing



Test standard: ANSI/ESD.STM3.1, SJ/T 11446—2013

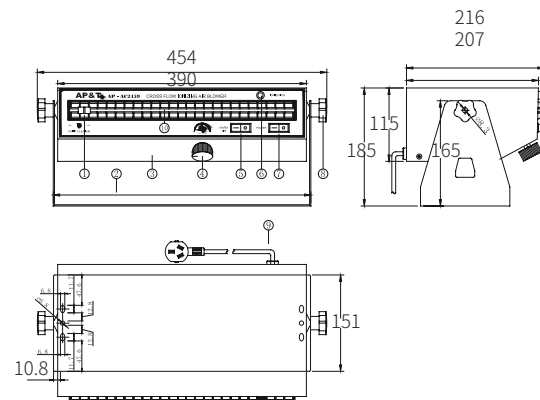
Test instrument: Trek157 static tester

Test voltage: ±1000V → ±100V attenuation

Test environment: Humidity: 50±5%

Temperature: 23±3°C

## Product Dimension



- ① Electrode cleaning device
- ② Mounting bracket
- ③ Device body
- ④ Air volume adjustment
- ⑤ Hot wind switch
- ⑥ Indicator light
- ⑦ Main power switch
- ⑧ Screw handle
- ⑨ Power connection cable
- ⑩ Ion emission port

# AP-DC2452 SERIES

## AUTO-CLEANING OVERHEAD IONIZING AIR BLOWER

### Product Profile

AP-DC2452 ionizing air blower series ionize air molecules by corona discharges through DC high voltages with positive and negative synchronous emission electrodes, producing large amount of positive and negative air ions which are transferred to the surface of the target object by axial flow fan for static elimination.

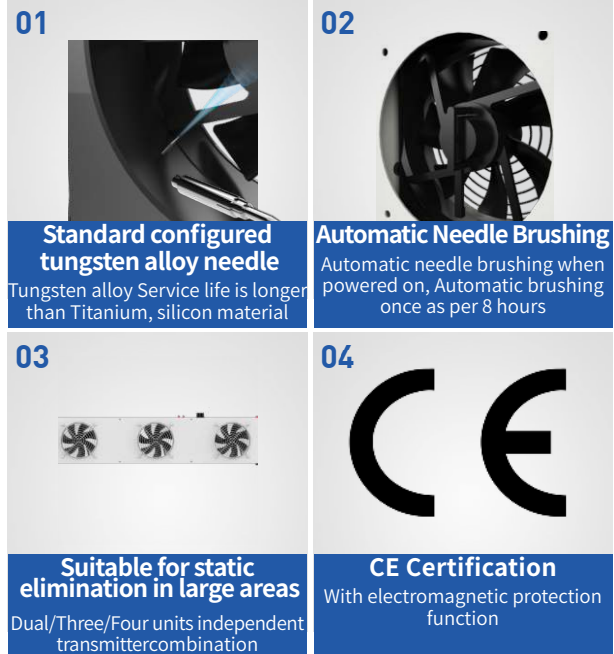


### Industry Application

widely used in electronics, semiconductor, Optoelectronics and other industries.

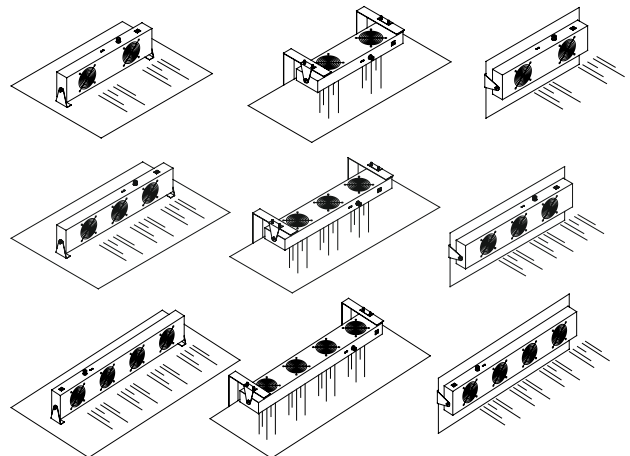


### Product Feature



### Product Use

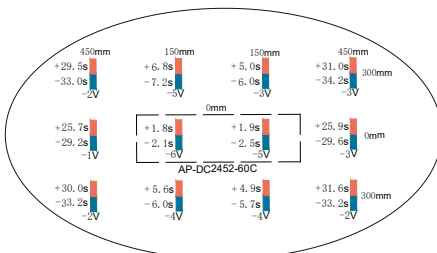
Fix the blower bracket into the sturdy and flat surface with screws or bolts (Such as wall or shelf). The angle of the blower can be adjusted by the knobs on both sides of the bracket to reach the best static elimination effect.



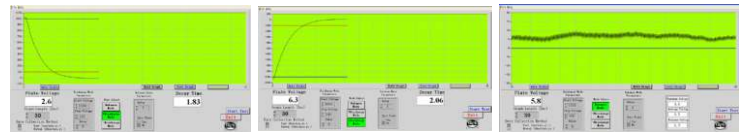
## Product Parameters

Model	AP-DC2452-60C	AP-DC2452-80C	AP-DC2452-100C
Input voltage	AC220V/50Hz or 110V/60Hz		
Power	15W	18W	25W
Working voltage	$\pm$ DC4000-DC7000V		
Ion emission	Stable current		
Emission electrode	Tungsten alloy		
Discharge structure	uncoupled electrical contact(discharge cylinder)		
Discharge range	600*300*750mm (L*W*H)	800*300*750mm (L*W*H)	1020*300*750mm (L*W*H)
Discharge speed	$\leq 3s$ (450mm vertical from the center of the wind outlet)		
Ion balance	$\leq  \pm 10V $ (450mm vertical from the center of the wind outlet)		
Alarm indicator	Power indicator always on, working normally		
Air volume	$\leq 2*89.1CFM$	$\leq 3*89.1CFM$	$\leq 4*89.1CFM$
Audio noise	$\leq 55db$ (150mm away from the wind outlet)	$\leq 60db$ (150mm away from the wind outlet)	$\leq 65db$ (150mm away from the wind outlet)
Ozone thickness	$\leq 0.05ppm$ (150mm away from the wind outlet)		
Working temperature	0-50°C		
Working humidity	30-70%RH		
Dimension	600*150*55mm(L*W*H) (Size of the blower body)	800*150*55mm(L*W*H) (Size of the blower body)	1000*150*55mm(L*W*H) (Size of the blower body)
Outer shell material	Aluminum powder spray coating		
Installation accessories	One pair of L-shape aluminum powder spray coating mounting bracket, one pair of ABS screw handle(M6x12)		
Net weight	2450g including power cord, bracket accessories etc	2500g Accessories included: 1*power cord, 1* mounting bracket ,1 kit of screw handle with gasket	3100g
Gross weight	3650g	4200g	5150g
Warranty	1 Year		
Certificate	CE		

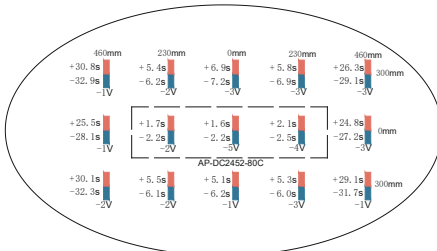
## Discharge Effect Drawing



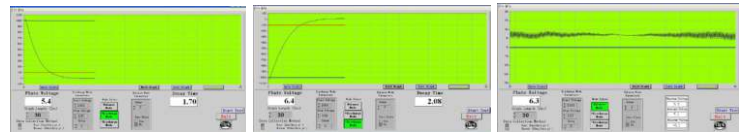
Test data shown below (Test distance: Positive front 450mm, Maximum wind speed):



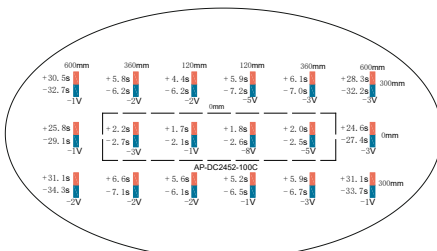
AP-DC2452-60C



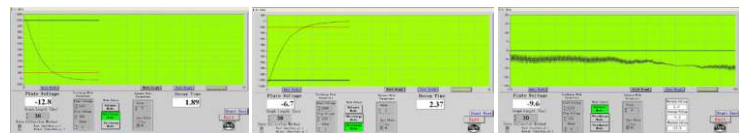
Test data shown below (Test distance: Positive front 450mm, Maximum wind speed):



AP-DC2452-80C



Test data shown below (Test distance: Positive front 300mm, Maximum wind speed):

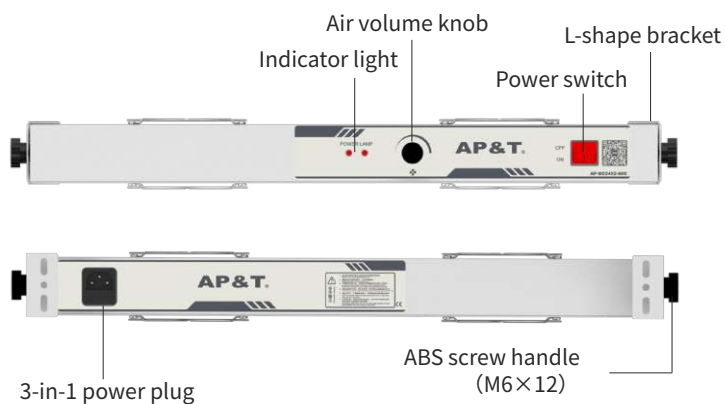


AP-DC2452-100C

Test standard: ANSI/ESD.STM3.1, SJ/T 11446—2013  
Test voltage:  $\pm 1000V \rightarrow \pm 100V$  attenuation

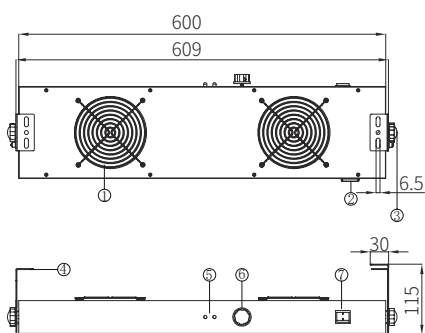
Test Instrument: Trek157 static tester  
Test environment: Humidity:  $50 \pm 5\%$   
Temperature:  $23 \pm 3^\circ C$

## Product Appearance

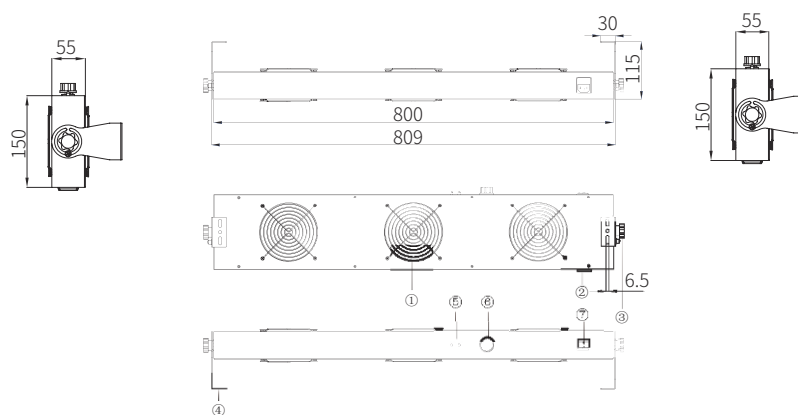


AP - DC2452 - 60C/80C/100C

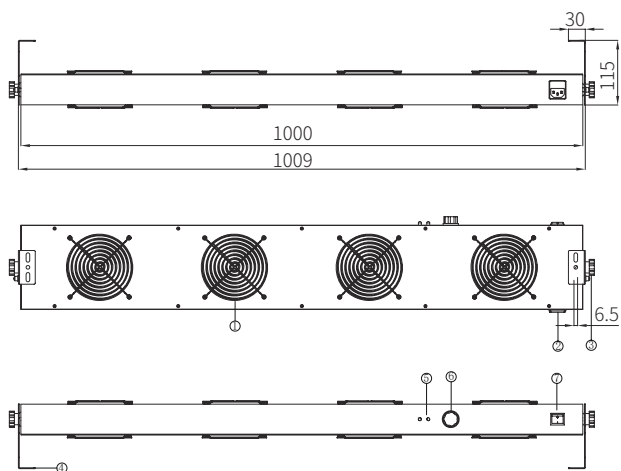
## Product Dimension Drawing



AP - DC2452 - 60C



AP - DC2452 - 80C



AP-DC2452 - 100C

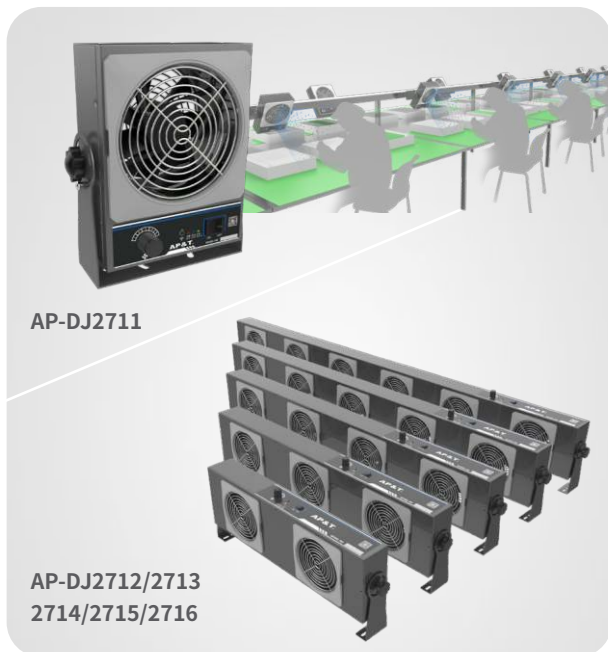
- ① Metal mesh cover
- ② Power socket
- ③ Mounting bracket screw handle
- ④ Mounting bracket
- ⑤ Working indicator light
- ⑥ Air volume adjustment knob
- ⑦ Power switch

# AP-DJ271X SERIES

## INTELLIGENT CONTROL/NETWORK IONIZING BLOWER

### Product Profile

AP-DJ271X series ionizing blower adopt DC static elimination technology with 1-6 fans optional for different static elimination requirements. With automatic cleaning, intelligent remote control, network monitoring function.



### Industry Application

Widely used in electronics, semiconductor, optoelectronics and other industries.



### Product Feature

01



#### Magnetic Mesh Cover

Power off when mesh cover is taken off. Easy for disassemble and maintenance

02



#### Standard configured tungsten needle

4 discharge electrodes with long-time ionization ability

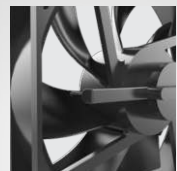
03



#### Indicator light

Red light alarm: Blower breakdown and high voltage abnormal  
Blue light flashing: Debugging or cleaning  
Bright green: normal working

04



#### Built-in brush

Automatic needle brushing when power on with setting as 8 hours once for manual needle brushing cleaning and maintenance free

05



#### 5-speed wind volume adjustment

Output air volume 1.45 times more than that of the traditional blower

06



#### Intelligent remote control

Cleaning time can be set. Air volume and ion balance can be adjusted

07



#### On-line Communication

Monitoring the ionizing blower working status

08



#### CE Certification

With electromagnetic protection function

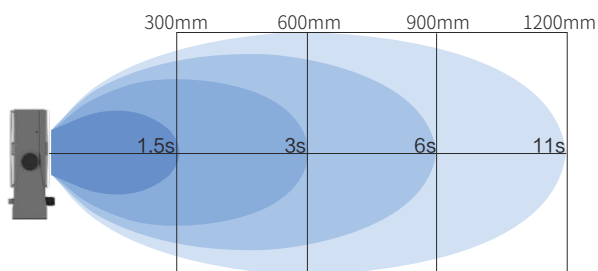


## Product Parameters

Model	AP-DJ2711	AP-DJ2712	AP-DJ2713	AP-DJ2714	AP-DJ2715	AP-DJ2716
Input voltage	DC 24V (RJ45 interface)	DC 24V (RJ45 interface) /3-in-1 socket (220VAC 50/60Hz)				
Input current	< 0.45A DC	< 0.15A AC	< 0.2A AC	< 0.25A AC	< 0.3A AC	< 0.21A AC
Output voltage	DC±4KV → ±7KV					
Power	< 12W	< 33W	< 44W	< 55W	< 66W	< 77W
Ion emission	Steady-state DC					
Emission electrode	Tungsten					
Discharge range	750*300mm (L*W)	750*550mm (L*W)	750*800mm (L*W)	750*1050mm (L*W)	750*1300mm (L*W)	750*1550mm (L*W)
Air volume	≤ 135CFM*1	≤ 135CFM*2	≤ 135CFM*3	≤ 135CFM*4	≤ 135CFM*5	≤ 135CFM*6
Audio noise	Single sealing ≤ 58dBA (1000mm away from the air outlet)					
Ozone thickness	≤ 0.05ppm (150mm away from the air outlet)					
Ion balance	≤  ±10V		≤  ±15V			
Discharge time	≤ 20S (300mm right front the air outlet)		≤ 3S (450mm right below air outlet)			
Alarm	Switch on, run cleaning -- blue light flashing					
	Normal working-green light on (always under monitoring status)					
	Fan alarm, red light always on					
	High-voltage abnormal, red light flashing					
	Infrared debugging, blue light flashing					
Communication method	RS485					
Working temperature	0°C - 50°C					
Working humidity	<70%RH					
Dimension (L*W*H)	142*67.5*190mm ionizing blower dimension	500*67*154mm ionizing blower dimension	750*67*154mm ionizing blower dimension	1000*67*154mm ionizing blower dimension	1250**67*154mm ionizing blower dimension	1500*67*154mm ionizing blower dimension
Outer shell material	Aluminum powder spray coating					
Installation accessories	One pair of U-shape iron powder spray mounting holder, one pair of ABS screw handle (M6×12)		One pair of L-shape iron powder spray mounting holder, one pair of ABS screw handle (M6×12)			
Supporting power supply	INPUT: AC100—240V 50/60Hz					
	OUTPUT: DC24V 2A (Dual RJ45 interface)					
Net weight	1.8KG	3.2KG	3.9KG	4.7KG	5.5KG	6.3KG
Gross weight	2.3KG	3.5KG	4.5KG	5.8KG	7.2KG	8.8KG
Warranty	1 Year					
Certificate	CE					

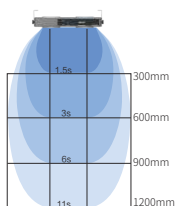
## Discharge Effect Drawing

AP-DJ2711

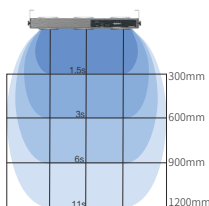


Test Standard: ANSI/ESD.STM3.1, SJ/T 11446—2013  
 Test Instrument: TREK156A Static Tester  
 Test Voltage: ±1000V → ±100V attenuation  
 Test Environment: Humidity: 50±5%  
 Temperature: 23±3°C

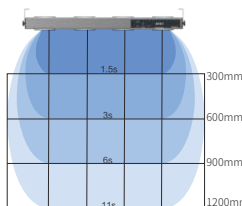
AP-DJ2712



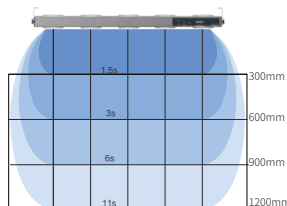
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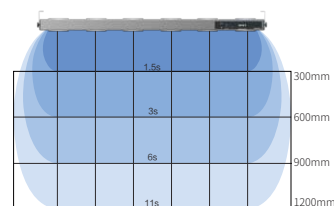
AP-DJ2714



AP-DJ2715

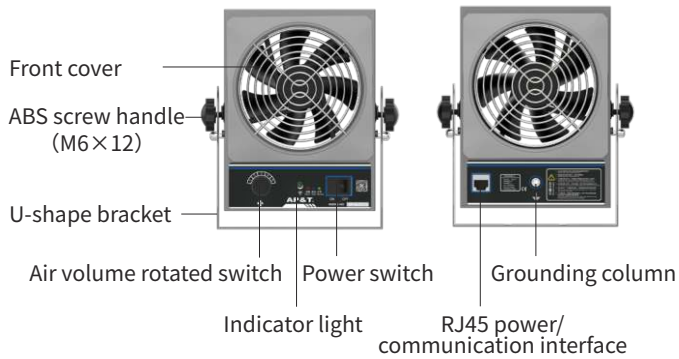


AP-DJ2716

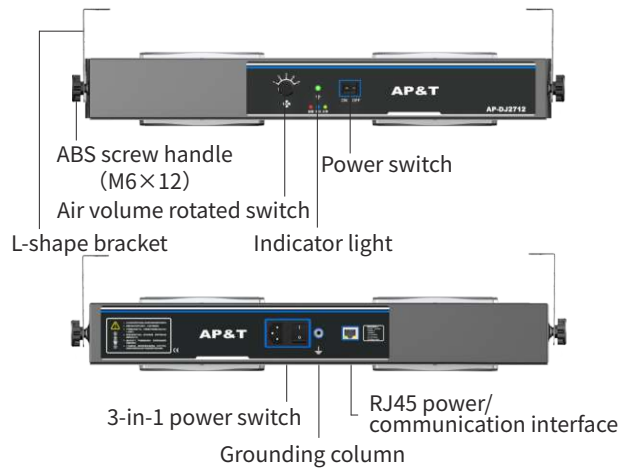




## Product Appearance

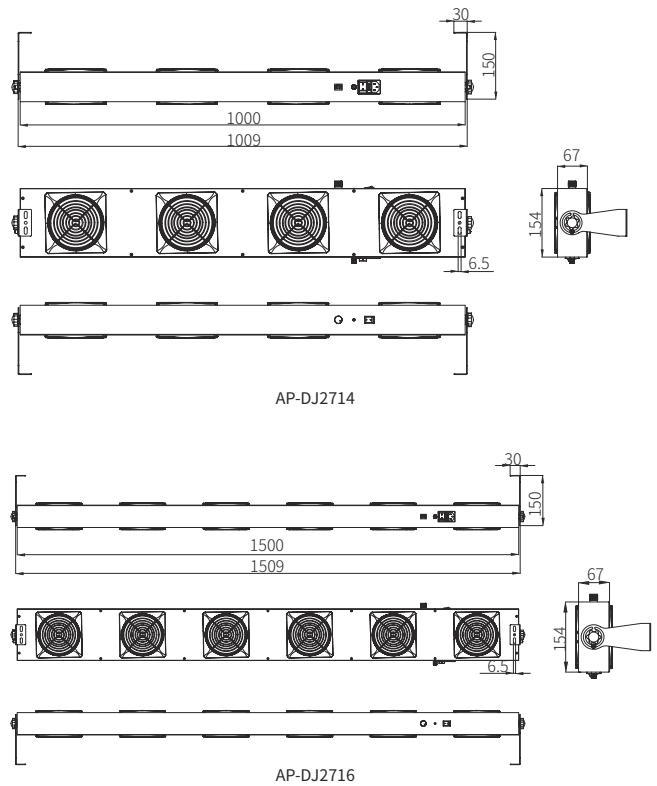
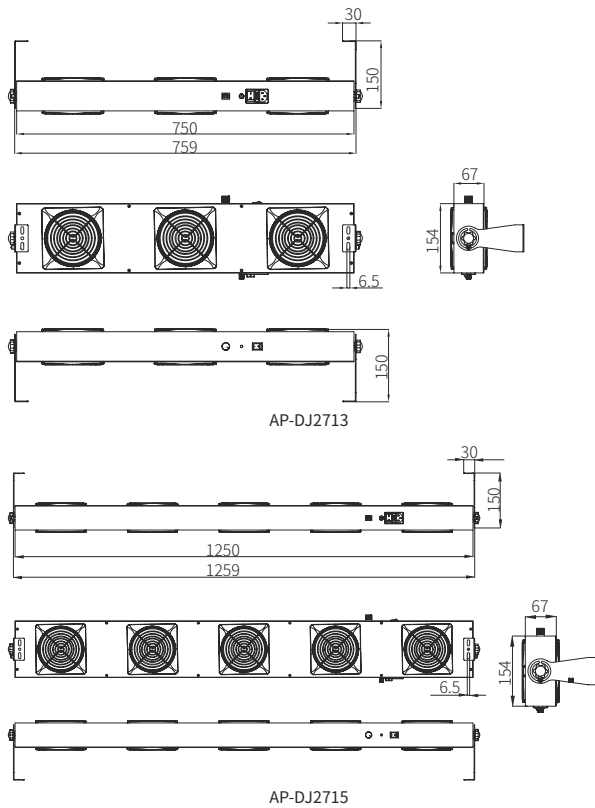
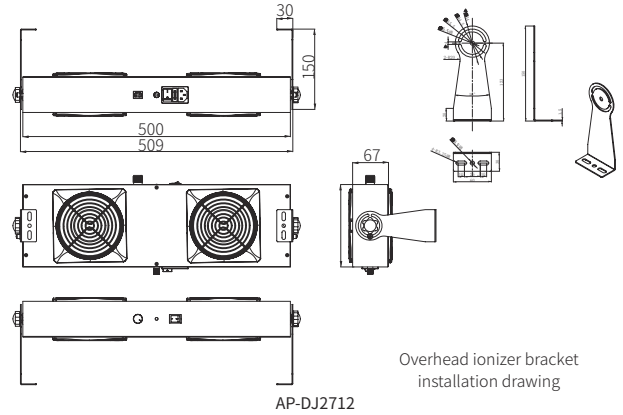
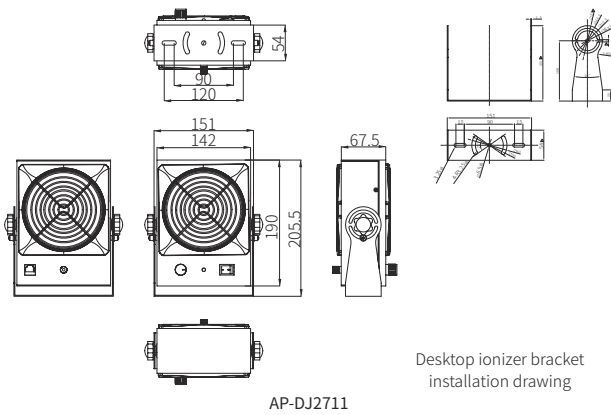


AP-DJ2711



AP-DJ2712/2713/2714/2715/2716

## Product Dimension Drawing



# AP-DJ281X SERIES

## INTELLIGENT CONTROL NETWORK SCREEN DISPLAY IONIZING BLOWER

### Product Profile

AP-DJ281X series ionizing blower adopts DC static elimination technology with 1-4 fan ionizers optional to meet different kinds of static elimination requirements. Touch switch ON/OFF design. 5-speed high air volume adjustment. Stable performance. Output air volume 1.45 times more than that of traditional ionizing blower. LCD display screen shows ion balance. With Remote control and network monitoring.



### Industry Application

Widely used in electronics, semiconductor, optoelectronics and other industries.



### Product Feature

01



#### Magnetic Mesh Cover

The ionizer is powered off when the mesh cover is removed for easy disassembly & maintenance

02



#### Multiple air outlets

8 needles in each air outlet to have large amount of ion generations

03



#### Indicator light

Red light alarm: fan breakdown, high-voltage abnormal  
Blue light flashing: Debugging or cleaning  
Green light: Normal working status

04



#### Built-in brush

Automatic needle brushing function when powering on. Default automatic needle brushing 8 hours once, manual needle brushing cleaning free

05



#### 5-speed air volume adjustment

Output air volume 1.45 times more than that of traditional ionizing blower

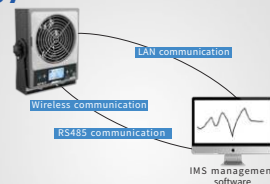
06



#### LCD screen

Display device address, wind speed gear and cleaning cycle

07



#### On-line Communication

Monitoring the ionizing blower working status

08



#### Intelligent remote control

Cleaning time can be set. Air volume and ion balance can be adjusted

09



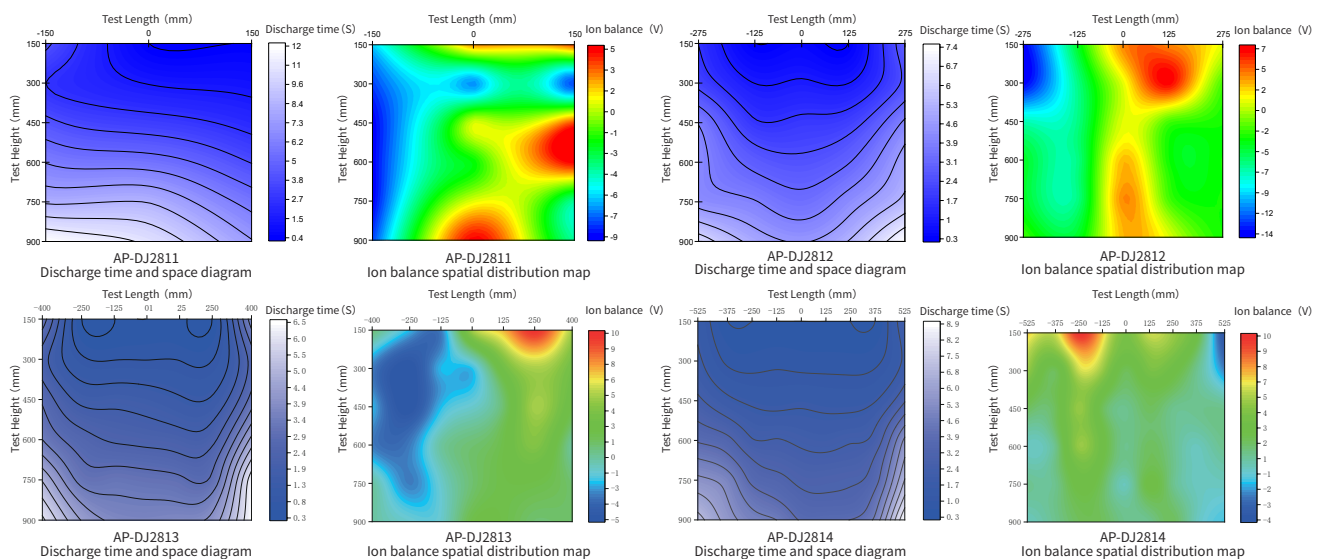
#### CE Certification

With electromagnetic protection function

## Product Parameters

Model	AP-DJ2811	AP-DJ2812	AP-DJ2813	AP-DJ2814
Input voltage	DC 24V (RJ45 interface) / 3-in-1 Socket (220VAC 50/60Hz)			
Output voltage	DC±4KV → ±6KV			
Power	< 12W	< 21W	< 33W	< 42.5W
Ion emission	Steady-state DC			
Emission electrode	Tungsten			
Discharge range	750*300mm (L*W)	750*550mm (L*W)	750*800mm (L*W)	750*1050mm (L*W)
Air volume	≤ 135CFM*1	≤ 135CFM*2	≤ 135CFM*3	≤ 135CFM*4
Audio noise	Single outlet ≤ 58dBA (1000mm away from air outlet)			
Ozone thickness	≤ 0.05ppm (150mm away from air outlet)			
Ion balance	≤  ±10V	≤  ±15V		
Discharge time	≤ 1.5S (300mm right front air outlet)	≤ 2.5S (450mm right below air outlet)		
Alarm indicator	Switch on, run cleaning -- blue light flashing			
	Normal working-green light on (always under monitoring status)			
	Fan alarm, red light always on			
	Ion balance abnormal--red light flashes			
	Infrared debugging, blue light flashing			
Communication method	Wire communication/RS485/LAN communication function			
Signal output	RS485 (115200bps, 8, 1, n, n) ≥ 20ms Open collector: < 50V, 100mA			
Emission electrode	0°C - 50°C			
Working humidity	<70%RH			
Dimension (L*W*H)	147*70.5*190mm ionizing blower dimension	500*70*154mm ionizing blower dimension	750*70*154mm ionizing blower dimension	1000*70*154mm ionizing blower dimension
outer shell material	Aluminum powder spray			
Installation Accessories	One pair of u-shape iron powder spray mounting bracket, one pair of ABS screw handle (M6×12)	One pair of L-shape iron powder spray mounting bracket, one pair of ABS screw handle (M6×12)		
Supporting power supply	Interface power supply: INPUT: AC100—240V 50/60Hz OUTPUT: DC24V 2A (Dual RJ45 interface)			
Net weight	1.35KG	2.60KG	3.65KG	4.85KG
Warranty	1 Year			
Certificate	CE			

## Discharge Effect Drawing



Note: The zero position of test length is the central position of the ionizing blower

Test Standard: ANSI/ESD.STM3.1, SJ/T 11446—2013

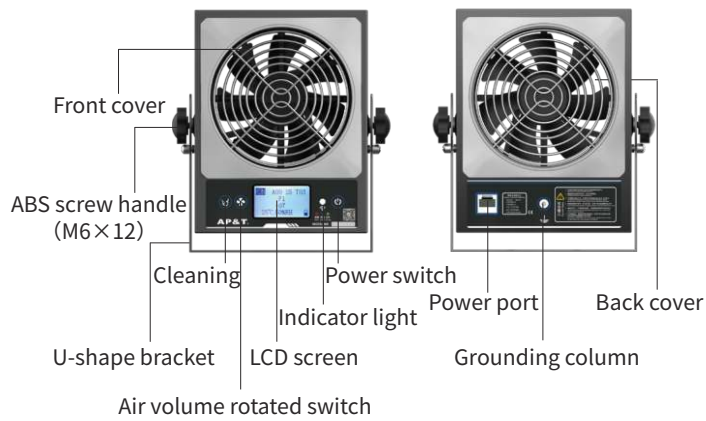
Test Voltage:  $\pm 1000\text{V} \rightarrow \pm 100\text{V}$  Attenuation

Test Instrument: TREK flat plate charge tester

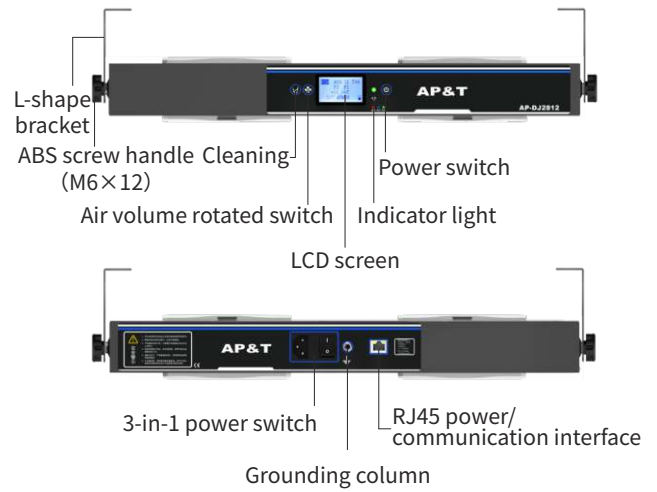
Tester environment: Humidity:  $50 \pm 5\%$

Temperature:  $23 \pm 3^\circ\text{C}$

## Product Appearance

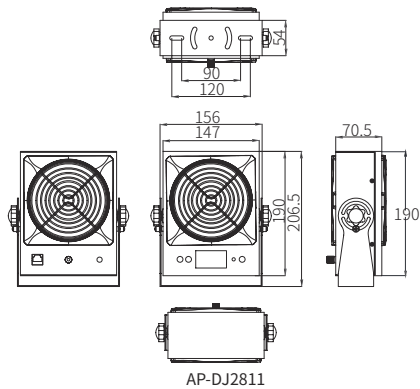


AP-DJ2811

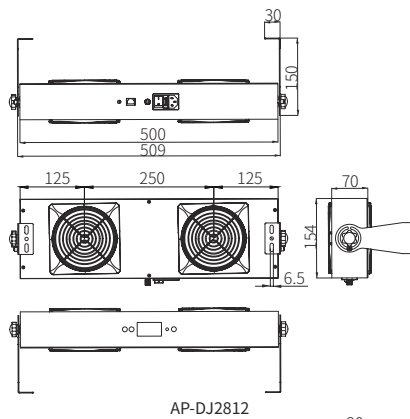


AP-DJ2812/2813/2814

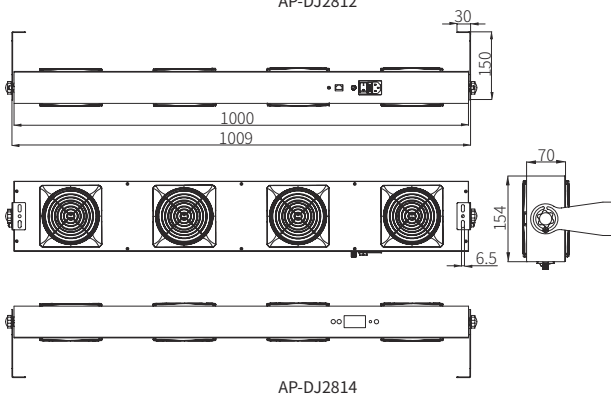
## Product Dimension Drawing



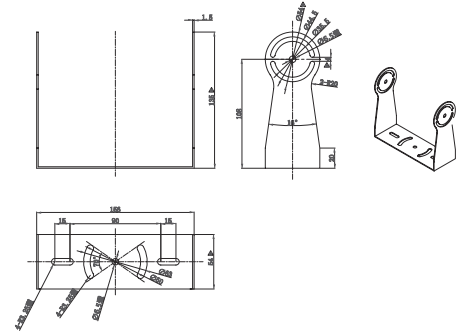
AP-DJ2811



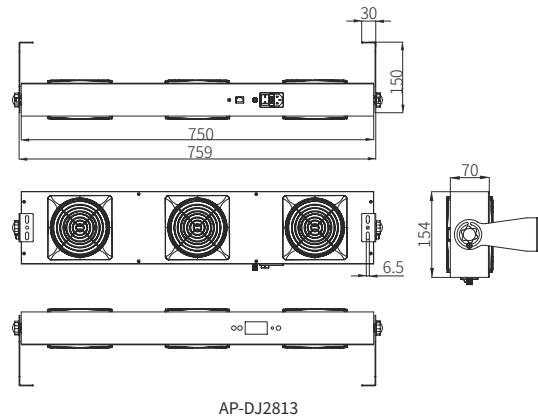
AP-DJ2812



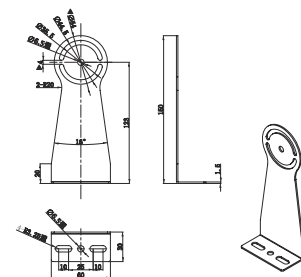
AP-DJ2814



AP-DJ2811  
Mounting angle dimension drawing



AP-DJ2813



AP-DJ2812/2813/2814  
Mounting angle dimension drawing

# AP-DJ1811

## INTELLIGENT CONTROL IONIZING BLOWER

### Product Profile

AP-DJ1811 ionizing blower adopts pulse DC static elimination technology with 8 electrode needle design. High air volume, 5-speed adjustment, stable performance, Air output volume 1.45 times more than that of the traditional ionizer, LCD display screen available. Negative high voltage amplitude can be adjusted by the remote control for the adjustment of ion balance voltage.



### Industry Application

Widely used in electronics, semiconductor, optoelectronics and other industries.



### Product Feature

01



#### LCD screen

Can display the equipment address, wind speed gear, cleaning cycle, temperature and humidity, fan breakdown alarm, high-voltage alarm

02



#### single air outlet

8 electrode needles in each air outlet, Standard configured tungsten needle with long service life

03



#### Indicator light

LCD display screen shows alarm and LED red alarm light on when fan or high voltage breakdown

04



#### Built-in brush

Automatic needle brushing when powering on. Default automatic needle brushing is set as 8 hours once. Manual needle brushing clean and maintenance free

05



#### 5-speed wind volume adjustment

Air volume output is 1.45 times more than that of the traditional ionizing blower

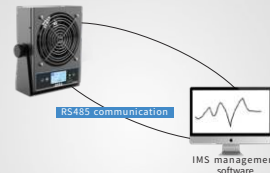
06



#### Intelligent remote control

Ion output parameters can be adjusted by the remote control

07



#### On-line Communication

Monitoring the ionizing blower working status

08



#### CE Certification

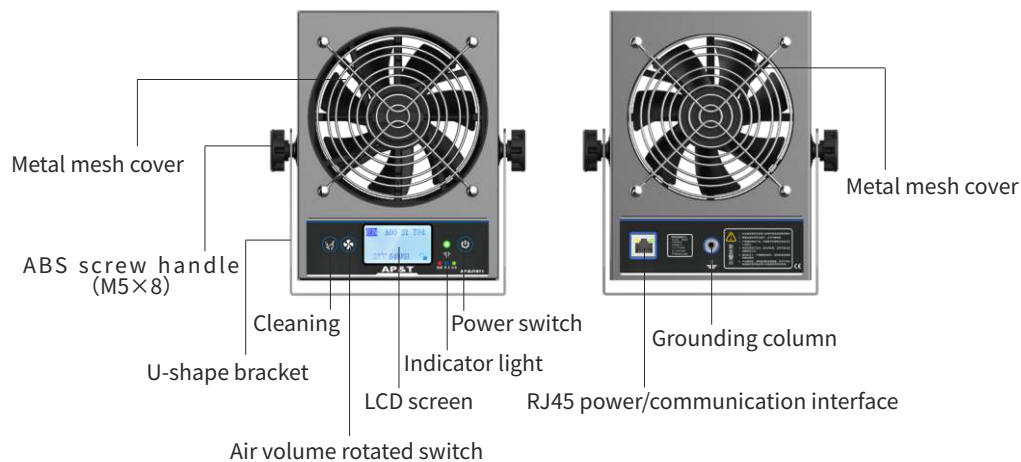
With electromagnetic protection function



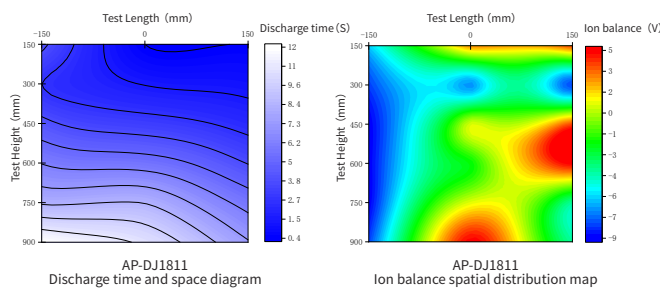
## Product Parameters

Model	AP-DB1811			
Input voltage	DC 24V（RJ45 interface）		Communication method	RS485
Output voltage	DC±4KV→±6KV		Working temperature	0℃-50℃
Power	12W		Working humidity	< 70%RH
Ion emission	Pulse DC		Dimension	147*70.5*190mm（L*W*H）（Size of the blower body）
Emission electrode	Tungsten		Outer shell material	Aluminum powder spray coating
Ion emission	750*300mm（L*W）		Installation accessories	One pair of U-shape aluminum powder spray mounting rack
Air volume	< 135CFM*1			
Audio noise	Single air outlet ≤ 58dBA （1000mm away from the air outlet）		Supporting power supply	INPUT：AC100—240V 50/60Hz
Ozone thickness	≤ 0.05ppm （150mm away from the air outlet）			OUTPUT：DC24V 2A （RJ45 interface）
Ion balance	≤  ±10V		Discharge time	≤ 1.5S（300mm right front away from the air outlet）
Alarm indicator	Switch on, run cleaning -- blue light flashing		Signal output	RS485（115200bps,8,1,n,n）≥ 20ms
	Normal working-green light on （always under monitoring status）			Open collector: < 50V,100mA
	Fan alarm, red light always on		Net weight	1.35KG（Including power cord, bracket）
	High voltage breakdowns alarm, red light flashes		Quality guarantee	1 Year
	Infrared debugging, blue light flashing		Certificate	CE

## Product Appearance



## Discharge Effect Drawing



Note: 0 position of test length is the central position of the ionizing blower

Test Standard: ANSI/ESD.STM3.1, SJ/T 11446—2013

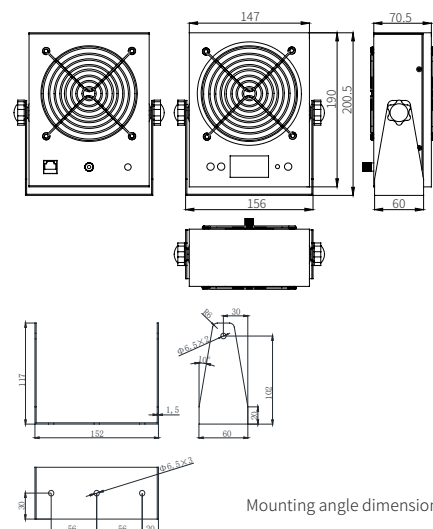
Test Instrument: TREK Charge plate tester

Test Voltage: ±1000V → ±100V attenuation

Test Environment: Humidity: 50±5%

Temperature: 23±3°C

## Product Dimension Drawing





# AP-DC3203

## HIGH-PERFORMANCE ION NOZZLE

### Product Profile

AP-DC3203 ion nozzle adopts high-frequency AC working method producing and transmitting positive and negative ions from the nozzle by compressed air with excellent ion balance ability to realize the point-surface static elimination. High-voltage generating components adopt electromagnetic protection measurements which cause non-electromagnetic interference to the outside world.

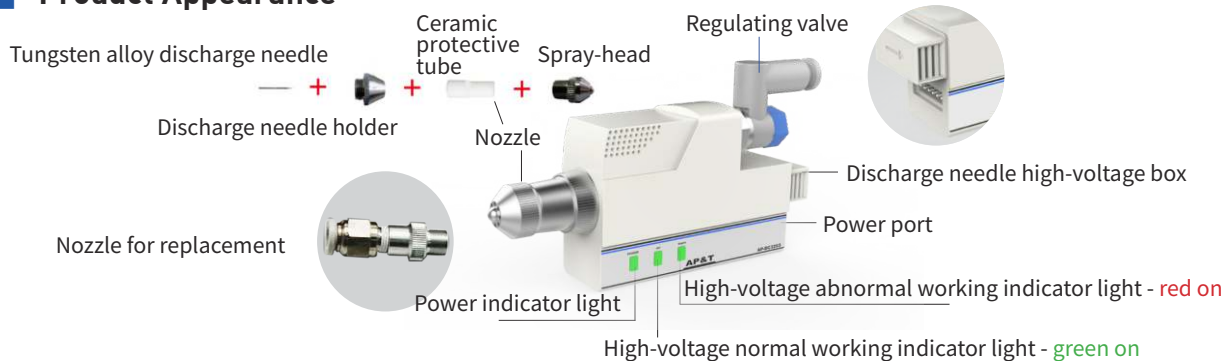
### Industry Application

Widely used in precision electronics, pharmaceutical manufacturing, semiconductor production and other industries.

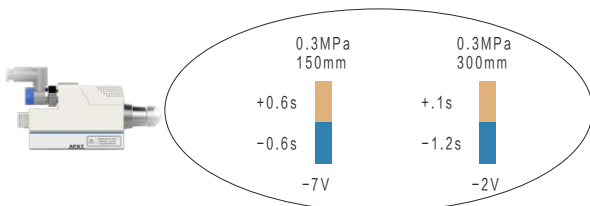
### Product Parameters

Model	AP-DC3203		
Input voltage	DC24V	Discharge speed	< 1.0s (150mm right ahead of the nozzle)
Working voltage	High frequency AC2200V	Ion balance	-15V ~ +15V (150mm right ahead of the nozzle)
Current consumption	500mA	Working Humidity	30—70%RH (Droplet condensation)
Power consumption	12W	Supporting power supply	IN: AC100V—240V 50Hz/60Hz; OUT: DC24V 0.5A
Working distance	150-300mm	Working medium	Clean compressed air
Working temperature	0-40°C	Noise	<100db (150mm right ahead of the nozzle, airflow pressure 0.1Mpa)
Airflow pressure	0.1-0.6MPa	Dimension (L*W*H)	Nozzle: 104.5*56.5*22mm Different types of nozzles; Size a little different
Ion emission	High-frequency AC		Supporting adaptor: 74.2*29.5*62.2mm Power cord length of the power adaptor: 1.5m
Ozone thickness	< 0.03ppm	Net weight	Nozzle: 90g Supporting adaptor: 69.3g Power cord length: 73.3g
Air source connector	Φ6mm	Gross weight	449.2 g

### Product Appearance

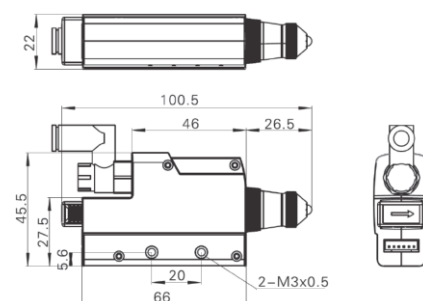


### Discharge Effect Drawing



Test Standard: ANSI/ESD.STM3.1, SJ/T 11446—2013  
 Test Instrument: TREK156A static tester  
 Test Voltage:  $\pm 1000V \rightarrow \pm 100V$  Attenuation  
 Test Environment: Relative humidity:  $50 \pm 5\%$   
 Temperature:  $23 \pm 3^\circ C$

### Product Dimension Drawing



**AP-AC2454-A**



## Product Profile

AP-AC2454-A ionizing air nozzle provides strong ionic air outputs not only for static elimination but also dust removal, It works under high voltage and low current status, safe and reliable.

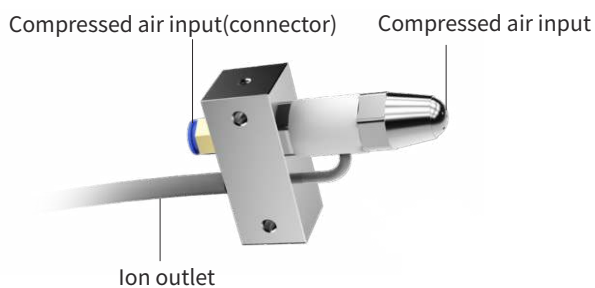
## Industry Application

Widely used in electronics, injection molding, printing, film and other industries.

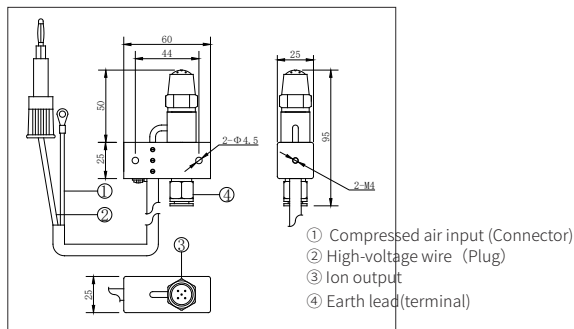
## Product Parameters

Model	AP-AC2454-A		
Working voltage	AC2800V	Input voltage	AC220V/50Hz or AC110V/60Hz
Discharge distance	150—300mm	Discharge speed	≤ 2.0s (150mm right ahead of the nozzle, airflow pressure 0.3Mpa)
Power supply power	20W	Ion balance	— 50V ~+ 50V (150mm right ahead of the nozzle)
Working temperature	0 - 50℃	Wire length	2.5M (Customizable)
Working humidity	30—70%RH	Noise	<65db (150mm right ahead of the nozzle, airflow pressure 0.1Mpa)
Using Medium	Clean compressed air	Dimension	95*25*60mm (L*W*H)
Ozone thickness	< 0.05ppm	Net weight	400g
Air source connector	Φ8mm	Gross weight	480g
Airflow pressure	0.2—0.6MPa	Supporting power supply	AP-AC2455-28

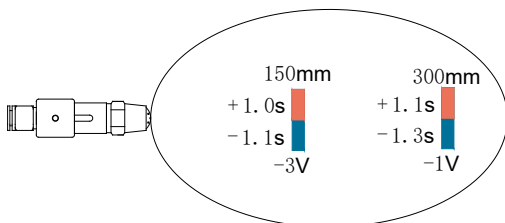
## Product Appearance



## Product Dimension Drawing



## Discharge Effect Drawing



Test Standard: ANSI/ESD.STM3.1, SJ/T 11446—2013

Test Instrument: TREK157A static tester

Test Voltage:  $\pm 1000\text{V} \rightarrow \pm 100\text{V}$  Attenuation

Test Environment: Humidity:  $50 \pm 5\%$

Temperature:  $23 \pm 3^\circ\text{C}$

## Supporting Power Supply

Tows two power supply



AP-AC2455-28



# AP-AC2456

## PORTABLE STRONG WIND IONIZING AIR GUN

### Product Profile

AP-AC2456 ionizing gun adopts power frequency AC static elimination technology with artificial learning handle for control air source switch easily, providing strong ionic air outputs not only for static elimination but also dust removal.

### Industry Application

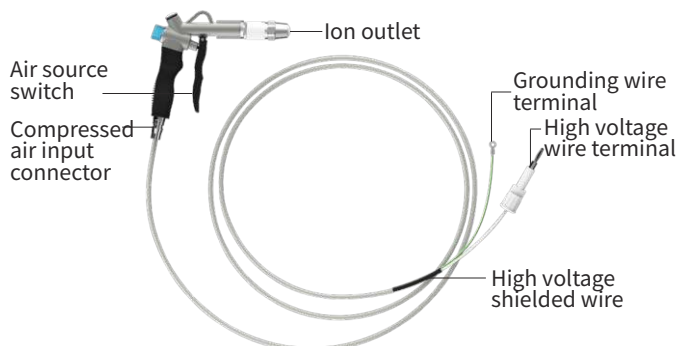
Widely used in electronics, injection molding, printing, film, mechanics and other industries.



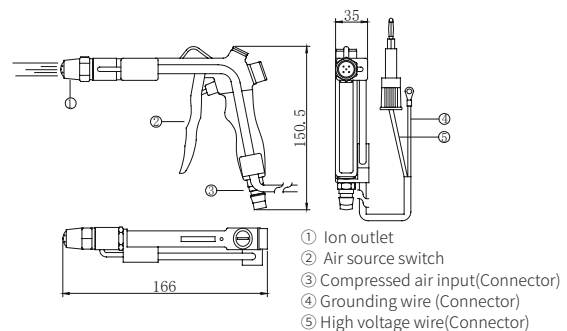
### Product Parameters

Model	AP-AC2456		
Working voltage	AC2800V	Input voltage	AC220V/50Hz or AC110V/60Hz
Power supply power	20W	Using medium	Clean compressed air
Discharge distance	150—300mm	Ion balance	- 50V ~ + 50V (150mm right ahead of the ionizing nozzle)
Working temperature	0—50°C	Noise	≤ 65db (150mm right ahead of the nozzle)
Working humidity	30—70%RH	Wire length	2.5M (Customizable)
Air source connector	Φ8mm	Dimension	150*35*160mm (L*W*H)
Airflow pressure	0.2—0.6MPa	Net weight	About 377g
Ozone thickness	< 0.05ppm	Gross weight	About 437g
Ion emission	Power frequency AC	Supporting power supply	AP-AC2455-28
Discharge speed	≤ 2.0s (150mm right ahead of the ionizing nozzle, airflow pressure 0.3Mpa)		

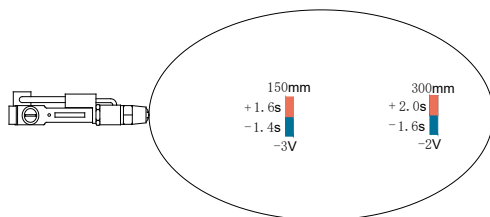
### Product Appearance



### Product Dimension Drawing



### Discharge Effect Drawing



### Supporting Power Supply

Tows two power supply



AP-AC2455-28

Test Standard: ANSI/ESD.STM3.1, SJ/T 11446—2013  
 Test Instrument: TREK157A static tester  
 Test Voltage:  $\pm 1000V \rightarrow \pm 100V$  Attenuation  
 Test Environment: Humidity:  $50 \pm 5\%$   
 Temperature:  $23 \pm 3^\circ C$

# AP-AZ3201

## POWERFUL DUST REMOVAL STATIC ELIMINATION IONIZING AIR SNAKE

### Product Profile

AP-AZ3201 ionizing snake adopts power frequency AC static elimination technology Induction control part and power supply integrated design with auxiliary far-infrared auto-sensing switch to set manual operation free. Mounting suction cups at the bottom, easy to use for static elimination and dust removal.

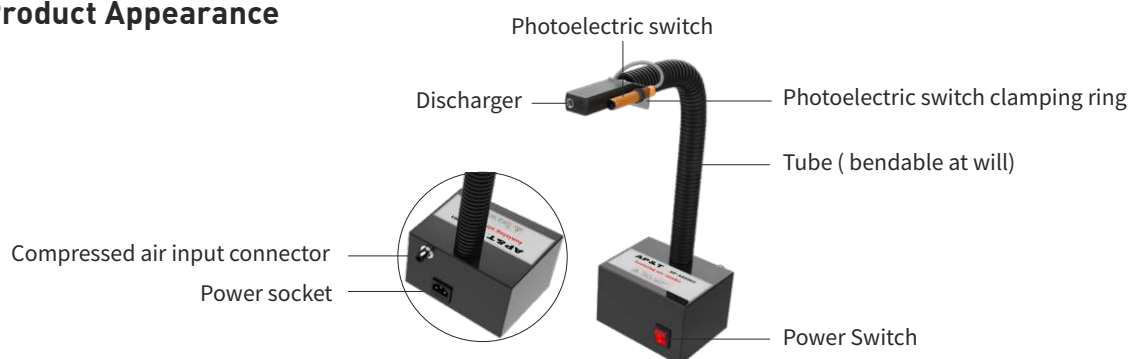
### Industry Application

Widely used in electronics, injection molding, printing, film and other industries.

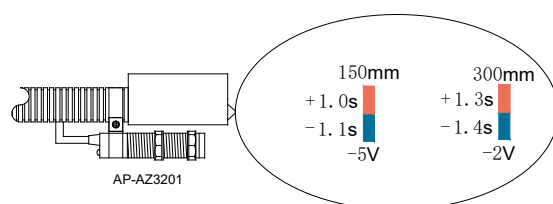
### Product Parameters

Model	AP-AZ3201		
Working voltage	AC3500V	Input voltage	AC 220V/50Hz or AC 110V/60Hz
Power supply power	26W	Ion balance	$\leq  \pm 50V $ (150mm right ahead of the ionizing snake)
Discharge distance	150—300mm	Discharge speed	$\leq 1.5S$ (150mm right ahead of the ionizing air snake)
Using medium	Clean compressed air	Noise	<65db (150mm right ahead of the ionizing snake)
Airflow pressure	0.2—0.6MPa	Air source connector	$\phi 8mm$ (Customizable)
Working temperature	0° C - 50° C	Dimension	156*127*118mm (L*W*H) (Enclosure size)
Working humidity	30 - 70%RH	Net weight	Including power supply cable, photoelectric switch, clamp ring
Ion emission	Power frequency	Gross weight	3780g

### Product Appearance

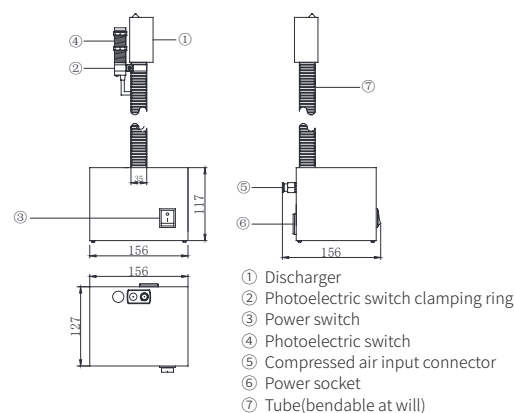


### Discharge Effect Drawing



Test standard: ANSI/ESD.STM3.1, SJ/T 11446—2013  
 Test instrument: TREK157A Static tester  
 Test voltage:  $\pm 1000V \rightarrow \pm 100V$  attenuation  
 Test environment: Humidity:  $50 \pm 5\%$   
 Temperature:  $23 \pm 3^\circ C$

### Product Dimension Drawing





# AP-AZ5203

## PORTABLE STRONG WIND IONIZING AIR GUN

STATIC SENSOR SERIES

STATIC METER SERIES

ION BAR SERIES

IONIZING AIR BLOWER SERIES

DUST REMOVAL SERIES

### Product Profile

AP-AZ5203 ion pen adopts power frequency static elimination technology. Pen shape design and large amount of ion generation for point type static elimination. The ion pen has good safety performance in emission electrode electric shock proof design with long service life and easy for installation and flexible movement.

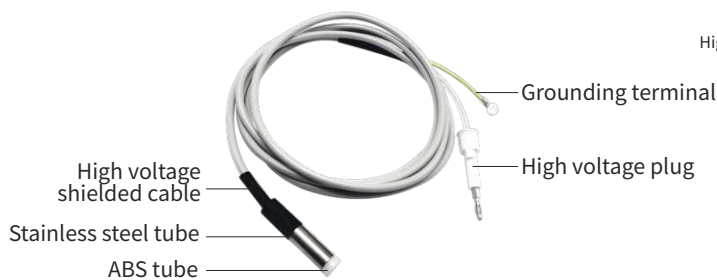
### Industry Application

Widely used in label, printing, plastic and other industries.

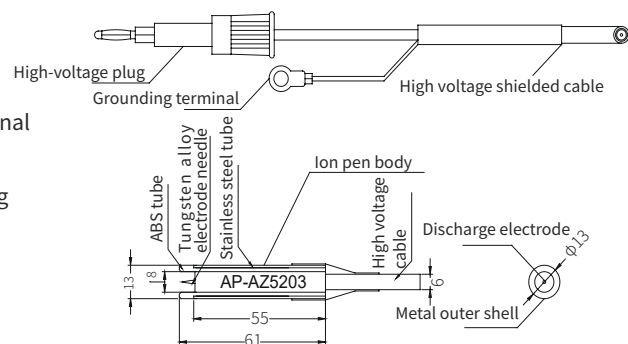
### Product Parameters

Model	AP-AZ5203		
Working voltage	AC5600V	High-voltage cable length	2.5M (Customization available)
Power	20W	Ion emission	Power frequency AC
Discharge distance	30 – 70mm	Ozone thickness	< 0.05ppm
Ion balance	$\leq  \pm 50V $	Net weight	150g
Discharge speed	$\leq 2.0S$	Gross weight	200g
Working temperature	0° C - 50° C	Supporting power supply	AP-AY1505/2505
Working humidity	$\leq 70\%RH$		

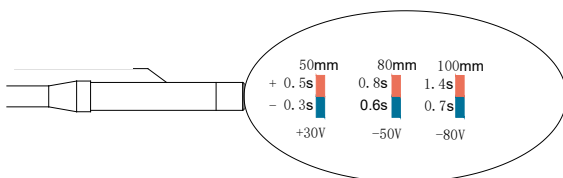
### Product Appearance



### Product Dimension Drawing



### Discharge Effect Drawing



Test standard: ANSI/ESD.STM3.1, SJ/T 11446—2013  
 Test instrument: TREK157A static tester  
 Test voltage:  $\pm 1000V \rightarrow \pm 100V$  attenuation  
 Test environment: Humidity:  $50 \pm 5\%$   
 Temperature:  $23 \pm 3^\circ C$

### Supporting power supply

Tows one power supply



AP-AY1505

Tows two power supply



AP-AY2505



**SPECIALITY CREATES VALUE**

**Shanghai Anping Static Technology Co.,Ltd**

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