

ION BAR




SKB Series

Water Proof
Air Knife Slim Ion Bar

▶ Ion Bar SKB Series



Key Features

- ▶ Possible to use in humid area (Waterproof structure)
- Small / slim body--easy to install in narrow space
- Superior to electric damages (incl. shocks) due to electrostatic capacity couple type
- External Power Controller 
- When false voltage alarm, ion bar will stop automatically (Alarm Function) 
- Input voltage level is controllable 

Specifications

SKB Series

Model	SKB Series	Remarks
Compliant Standards	Technical Recommendations of the Research Institute of Industrial Safety	
Rated Voltage	AC5kV ~ 7kV $\pm 7\%$ (Max.)	SKP-101
Structure	Capacitive-Coupled	Shockless type
Ozone(O ₃) Concentration	≤ 0.05 ppm	
Operation Circumstance	0°C ~ +50°C (32°F ~ 122°F), 35% ~ 85% RH	
Body	PBT(Polybutylene Terephthalate)	Level IV0
Cover	Aluminum	
Material	Electrode Stainless Steel	
Cable Insulator	PVC(Polyvinyl Chloride)	
Flexible Tube	PA(Polyamide)	Level IV0
Operating Distance	10 ~ 250 mm	Non air pressure
Mounting Method	Bolt Mounting with Bracket	
Weight	About 0.6kg/m	Without HV cable
Dimensions	Please Refer to Dimension Drawing	
Tip Cleaning Cycle	1 Week	Electrode cleaning
Warranty	1 Year(After 1 year of your purchase)	

SKP-101

Model	SKP-101	Remarks
Input Power	AC 110V 50/60Hz	AC 220V 50/60Hz
Power Consumption	10VA(90mA)Max.	10VA(45mA)Max.
Variable Voltage Range	80V~110V	160V~220V
Output Port	1 Ports	
Output Voltage	AC 5kV ~ 7kV $\pm 7\%$ (Max.)	For SKB Series
Operation Circumstance	0°C ~ +50°C (32°F ~ 122°F), 35% ~ 85% RH(No Condensation)	
Weight	8.1kg	
Main Body Material	Stainless Steel	
Function	Start, Stop Button / Interface(Remote / Run, Alarm State)	
Size	Please Refer to Dimension Drawing	
Warranty	1 Year(After 1 year of your purchase)	

Power Controller SKP-101

Decay Time Characteristics

Test Conditions

- Model: SKB-700 / SKP-101
- Socket : None (CoronaTip : SUS 304)
- Output Voltage : AC 5kV ~ 7kV $\pm 7\%$ (Max.)
- Air Pressure : None Air Pressure
- Decay Time : $\pm 1,000$ V to ± 100 V
- Temperature & Humidity : 24°C $\pm 1^\circ$ C, 40% $\pm 2\%$ RH
- Charge Plate Capacitance : 20pF ± 2 pF (150 X 150mm)
- Frequency : 60Hz

Distance [mm]	Decay Time [sec.]		Peak Voltage[V]		Ion Balance[V]
	Pos.(+)	Neg.(-)	Pos.(+)	Neg.(-)	
10	0.1	0.1	70	4	33
20	0.1	0.1	55	10	22.5
30	0.2	0.2	46	2	22
40	0.4	0.3	43	7	18
50	1.0	0.8	36	10	15
60	1.6	1.2	36	7	14.5
70	2.3	1.8	34	7	13.5
80	2.9	2.3	33	7	13
90	3.4	2.6	25	3	11
100	4.4	3.4	31	8	11.5
110	5.8	4.4	25	2	11.5
120	7.8	5.9	24	3	10.5
130	10.1	8.0	21	1	10
140	11.7	8.9	25	10	7.5
150	12.9	10.0	20	0	10

* This is actual data that we measured.

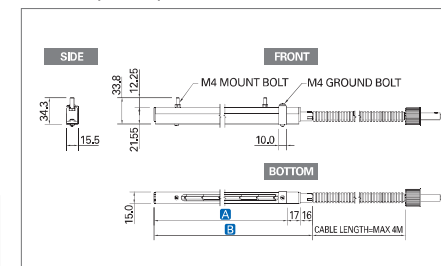
* Based on different working spaces, accepted standard deviation of common AC power might be different than the standard table we supported (sd=6%)

* If output does not align with standard table, there must be offset in output level (Approx. =7%)

* Depending on the management standard, you should set our optimized input power supply level in order to perform better Peak Voltage and Decay Time.

Dimensions

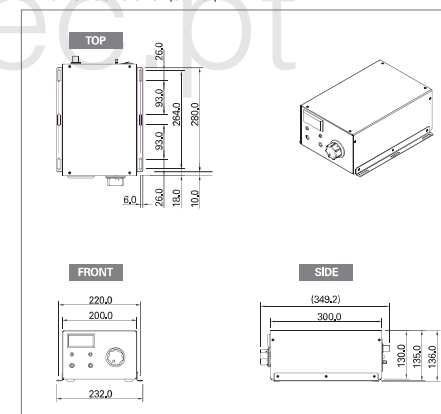
▶ Ion Bar [SKB Series]



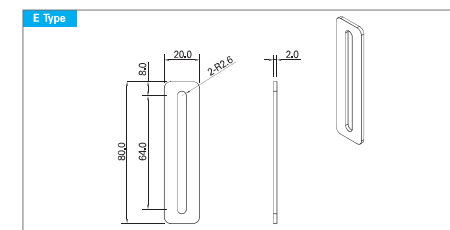
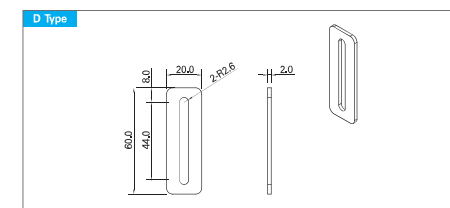
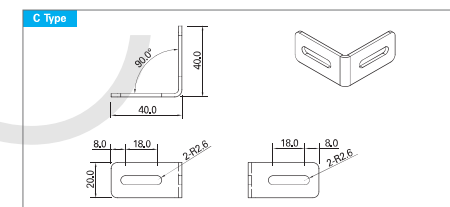
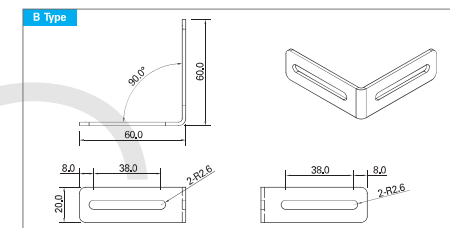
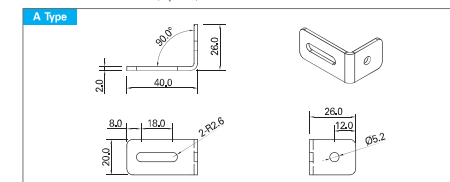
▶ [Model : SKB-60 ~ 2700] Dimensions

No.	MODEL No.	TIP Q.TY	A	B	MOUNT BOLT Q.TY
1	SKB-60	1	57	90	2
2	SKB-150	5	145	178	2
3	SKB-300	12	299	332	2
4	SKB-500	21	497	530	2
5	SKB-700	30	695	728	2
6	SKB-900	39	893	926	2
7	SKB-1100	48	1091	1124	3
8	SKB-1300	58	1311	1344	3
9	SKB-1500	67	1509	1542	3
10	SKB-1700	76	1707	1740	3
11	SKB-1900	85	1905	1938	3
12	SKB-2100	94	2103	2136	4
13	SKB-2300	103	2301	2334	4
14	SKB-2500	112	2499	2532	4
15	SKB-2700	120	2675	2708	4

▶ Power Controller [SKP-101]



▶ Mount Bracket (Option)



Soft X-ray Ionizer

Ion Bar

Ion Blower

Ion Nozzle

Measurement & Monitoring System

Real Monitoring System

Dust Collector