

It is recommended that only persons who have sufficient knowledge and experience such as system designers and responsible persons deal with this product after carefully reading the product manual.

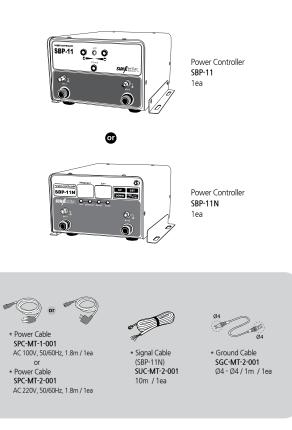
1 The matters of safety



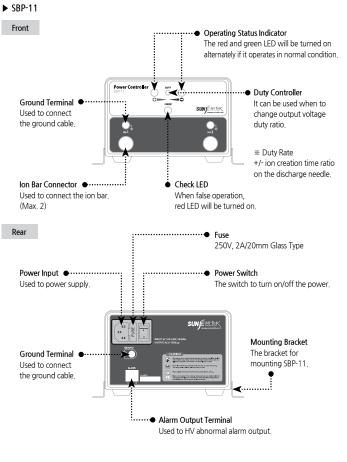
2 Check the package contents

Product compositions

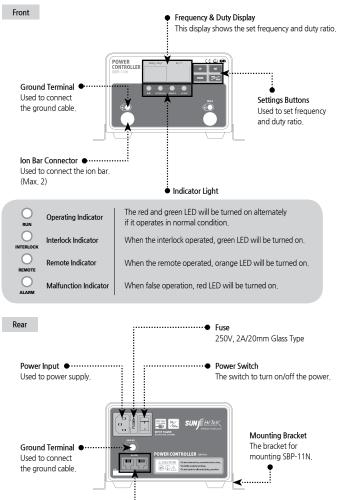
The package includes the following products composition.



3 Nomenclatures of parts



► SBP-11N



UTP Terminal

The connection terminal to alarm and remote

4 Installation and connection

02

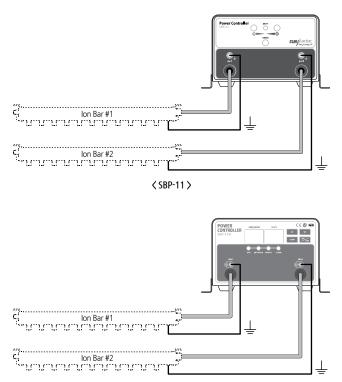
* During installation please try to avoid the area where the product might get(electrical) stress There might be chances for cable breakage, electric shock, or fire explosion * After checking product, you should verify which power supply specification. A proper supply power use is required. If connect the power improperly, then might cause fire or electric shock. * Please be sure to use a ground cable for safety purposes * The discharge needle is very sharp at the edge. Do not phsically(directly) touch the discharge needle. ▶ How to connect the ion bar SBP-11 Ion Bar #1 lon Bar #2 າມານກາຍນານກັບບໍ່ມີ SBP-11N 1000 1974 Ion Bar # ายามามามามามามามามามามามา Connectable Ion Bar Power controller SBP-11/11N can be connected to the ion bars as below * Ion Bar SIB1 Series * Ion Bar SIB2 Series * Ion Bar SSB1 Series * Don't try to connect with the ion bar that is not properly specified to install. CAUTION It will be causes of malfunction or operation disorder.

03

Ground connection

Function Connection

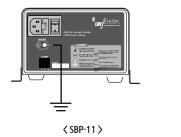
Connect the ground cable to the ion bar with ground terminal in front of power controller. But, when the metallic object is grounded, it is not necessary to "Ground" connect the object.



<SBP-11N>

안전접지

When you can not find power supply connection, you can use the ground terminal which is located at the back of the controller.





5 How to set

► SBP-11

Set the Frequency

Frequency is adjusted to an optimal conditions before shipped.

Terminal

No	Color	Descriptions	Picture
1	Normal Close	Relay contact output-common (DC 24V, 1A At Resistor Load)	H/V Abnormal
2	Common	Relay contact output normal close (DC 24V, 1A At Resistor Load)	
3	Normal Open	Relay contact output normal open (DC 24V, 1A At Resistor Load)	

Set the Duty

If you set duty controller by the left and right, then +/- ion creation amount will be adjustment.

► SBP-11N

Set the Frequency

- a. Push the set button and set the display to 'Frequency' flickering.
- b. Adjust the frequency by using up and down button.
- c. Push the set button again for operation and check if run LED lamp woks normally.

Recommended Frequency

Static Electricity Removal Speed	Application Location	Installation Distance [mm]	Recommended Frequency [Hz]
High Speed	Film, paper or fabric sheet line(short distance)	50 ~ 300	20, 30
	Clean Bench(medium distance)	300 ~ 1,000	20, 30
V Low Speed	Clean Room Ceiling(long distance)	1,000 ~ 2,000	20 below

Set the Duty

- a. Push the set button and set the display to 'Duty' flickering.
- b. Adjust the frequency by using up and down button.
- c. Push the set button again for operation and check if run LED lamp woks normally. * The possible duty ratio setting ranges are (+)40 ~ 60% and (-)60 ~40%.

Run/Stop

If you push run/stop button during the operation, interlock lamp turn on and stop operation.

UTP Terminal

Closing remote signal ($(\overline{O}, (\underline{8}))$, outside interlock system operates.

 $\label{eq:When} $$ When $$ H/V$ Abnormal $$ state, @, $$ terminal will be closed. When the product is on and running, @ and $$ are open. When it stops, @ and $$ are closed. $$$

④ and ⑤ are closed when the power is off.

No	Color	Descriptions	Picture	Remarks
1	Brown	Not Used		
2	White & Brown	Not Osed	-	
3	Orange	Internal Ground		
4	White & Orange	Close when H/V is abnormal Open when it runs	0000 Open	Output
5	Green	Close when it stops Close when power off (DC 24V, 1A At Resistor Load)	Close	
6	White & Green	Internal Ground	-	
7	Blue	Remote On	0 	Input
8	White & Blue	Remote Common	3	Input

5 Problem solving

Checklist before called

Problem	Identifying Problem	Solution	
	Is your power cable still plugged in?	Please re-plug the power cable and then turn the device on again.	
The product	Was the proper voltage level applied for this set-up?	Please use the proper level of power input for the device. (AC 100~240V, 50/60Hz)	
does not work.	Is the swith off at back of the device?	Turn on the power switch.	
	ls a fuse broken?	Replace the proper fuse immediately. (250V, 2A)	
There is no ionization.	Does the installed environment have too high/low level of humidity or temperature?		
The ionizing performance	Can't possibly ground the device?	Please refer to ^r Installation & Connection」 for(proper) grounding the device.	
has been decreased.	Any damages or cut on the cables?	You need to replace the cables if it gets cut or damaged.	

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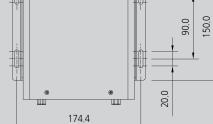
7 Dimensions

► SBP-11

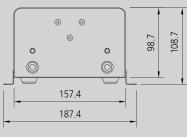
(Top)

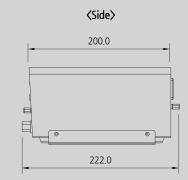
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► SBP-11N



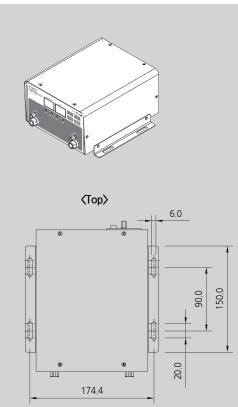




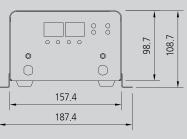


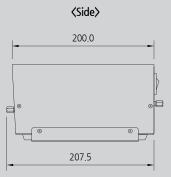














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8 Specification

Parameter		Description / Value		Remarks
		SBP-11	SBP-11N	Reindiks
Input Power		AC 100~240V, 50/60Hz		
Power Consumption		22W	23W	
Current Consumption		100mA	104mA	220V
Alarm		H/V Abnormal		UTP(SBP-11N)
We	eight	2.46kg	2.48kg	
Main Body Material		EGI	Stainless Steel	
Ion Bar Number Connectable		2 Set(Max.)		
Adjust	Frequency (Hz)	-	1, 3, 5, 8, 10, 20, 30	
Function	Duty Ratio (%)	40 ~ 60		
Warranty		1 year		

% The appearance and specification of the product may be changed without prior notice for the improvement of the product.

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