



SEJIN ELECTRONICS, CO.

HIGH VOLTAGE POWER SUPPLY

MODEL:1260 AN



SEJIN
Specification



CONTENTS

	PAGE
Introduction Of Power Supply (Power Pack)	3
Specifications	3
Function Diagram	5
Installation	6
Operation	7
Maintenance	8
Accessory	9
Application	9

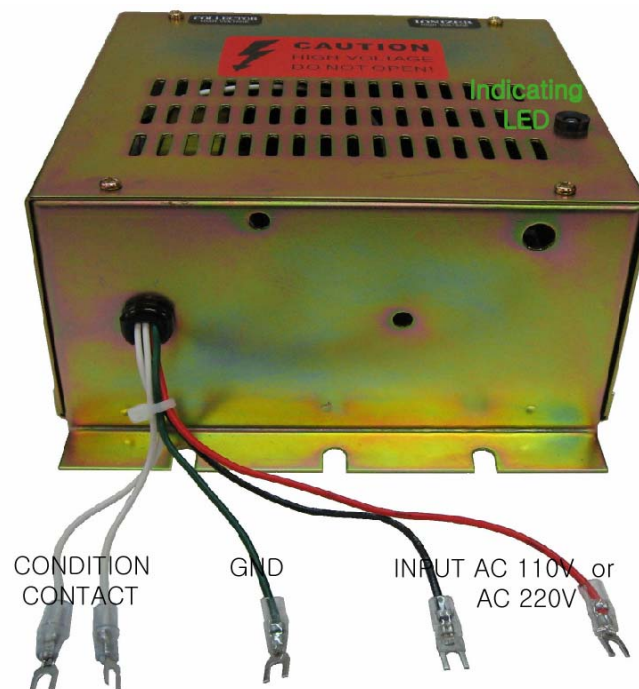
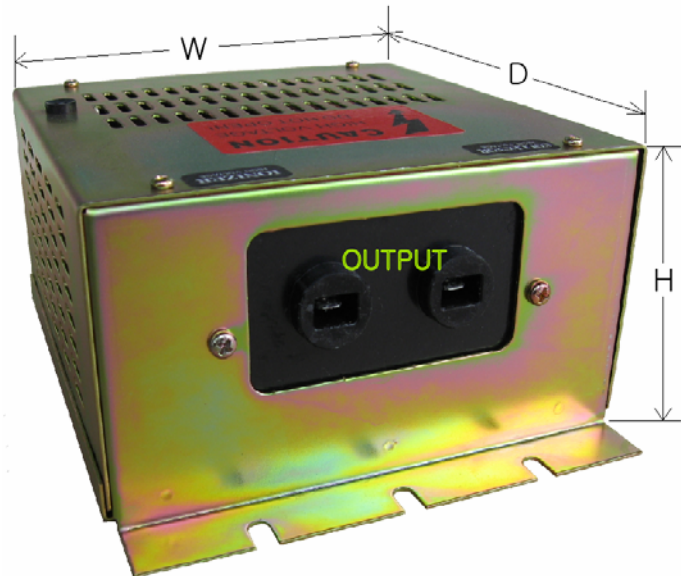


Introduction of Power Supply (Power Pack)

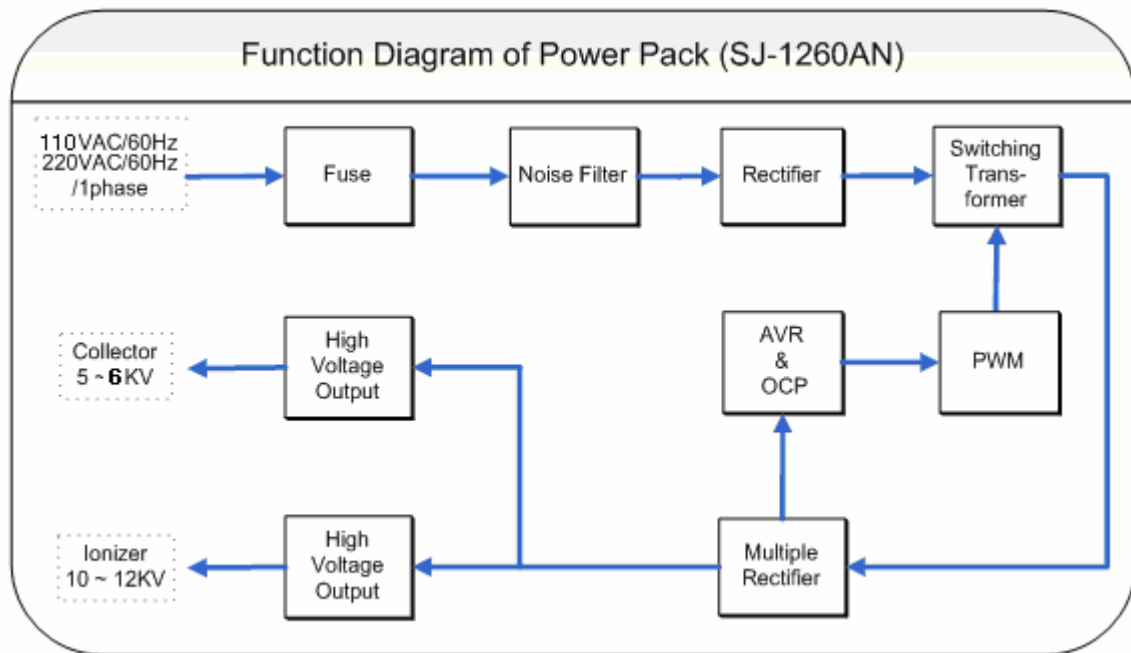
The electric precipitator consists of an Ionizing part, a Collecting cell part . This method is called as a double stage electric charge method. An ionizing part grants a High Voltage (DC 10KV~12KV) and makes an electric field, which ionizes pollutants. Also a collecting part is formed to collect pollutants by providing a cell High Voltage (DC 5~6KV) to the collecting part. This can eliminate 0.01 μm particles dust and can be considered as the best way with more than 97% of efficiency.

Specifications

- 1) Model : SJ-1260AN
- 2) Sources of electricity : AC 230V $\pm 10\%$, 1 Φ 50Hz~60Hz or
AC 110V $\pm 10\%$, 1 Φ 50Hz~60Hz.
(It is not free voltage model but customer option.)
- 3) Output :
IONIZER : 10KV~12KV
COLLECTOR : 5KV~6KV
- 4) Power : 80VA
- 5) Safety device : embedded protection circuit of surge and Overload
- 6) Protection time : 0.1sec
- 7) Alarm function : the outside terminal LAMP or BUZZER (selectable)
- 8) Indication : under a normal operation or a normal load,
green LED lighted whereas under an Overload
(or surge), a red LED is constantly blinked.
- 9) Dimension : H80x W145 x D155 (mm)



Function Diagram





Installation

- 1) Confirm the exact connection by the power pack wiring drawing.
- 2) Confirm the connection between a Power Pack and an Earth.
(see the figures in the Page 3)

i) Input Terminal :

AC 110V 50Hz-60Hz or
AC 220V 50Hz-60Hz
(black, red Lead)

ii) GND Terminal :

Ground terminal
GROUND (green Lead)

iii) Condition Terminal :

White x 2 lead state
Condition contact (connection)

- 3) Confirm the connection between a terminal and electric line
- 4) Confirm the connection of high voltage terminal in Power Pack

- * DC 5KV~ 6KV ---- Terminal in Collector (Cell) side
- * DC 10KV~12KV ---- Terminal in Ionizer side
- * confirm exactly a connection part of high voltage terminal
- * A good contacting connector must be used at connecting part and for the connection of high voltage line and an electric line a high pressure contraction tube must be used to endure enough durability and internal pressure.



Operation

- 1) In the above 2). (Page.6), first check the clause i), ii), iii), and then turn on the power pack external power switch–NFB or SW.
- 2) After turning it on, check whether the LED P.L in a front lower part of a POWER PACK can be lighted in green.
- 3) If it is lighted in green, POWER PACK is in normal operation.
- 4) Output: DC 5 ~ 6 KV (adjustable), DC 10~12 KV (adjustable).
* Simultaneous adjustable (blue VR-2 on the PCB).
- 5) Input and terminal: red& black / AC 220V or AC 110V input
: Green /Earth (ground)
: White, white / condition contact
 - At present, it's in B contact. At abnormal, it maintains a contact state (when it's bickering)
 - Condition contact is convertible by changing an internal connector pin to A contact.

Remark : Green LED should be a ground connection in use.
(A poor connection is the cause of a trouble)

- 6) Indicating LED: two colored LED is on the upper side of a case.
In normal, green LED is constantly lighted.
In abnormal, red and green LED is alternatively lighted.
:In an instant over current and short circuit,
a relay and a LED are bickering in two minutes interval.
:In constant over current and constant shirt circuit,
LED is in constant bickering, and Relay is designed to prevent a Relay contact loss by maintenance of constant A contact state.
- 7) PCB coating: this enhances the durability of semiconductor element and prevents a damage of parts, so clears the cause of break.



Maintenance

- 1) Confirm whether a terminal connection of input AC voltage or not.
- 2) After checking Clause1), confirm the voltage of output terminal (in measuring, use a high voltage measurement TEST PROBE)
- 3) In measuring a high voltage, firstly measures it under no-load state, then if it's normal, measure it under load state.
(At this time, connect a terminal of IONIZER and COLLECTOR)
- 4) If in normal state, green LED is constantly lighted.
- 5) If a load is abnormal, that is to say, if it is in over-load or surge, LED is changed to red bicker. At this time, this indicates us abnormality at the side of COLLECTOR and IONIZER. Red bicker is also happened in connecting a larger quantity of cell than a Pack's capacity.
* Reference *
When this state keeps on, it means a short circuit by a wrong insulation and a foreign substance at the load side of IONIZER or the side of COLLECTOR.
- 6) The normal insulation resistance of a load side is the followings.
: IONIZER: over 100 MΩ (DC 10KV insulation resistance measuring instrument)
: COLLECTOR: over 50MΩ (DC 5KV insulation resistance measuring instrument)

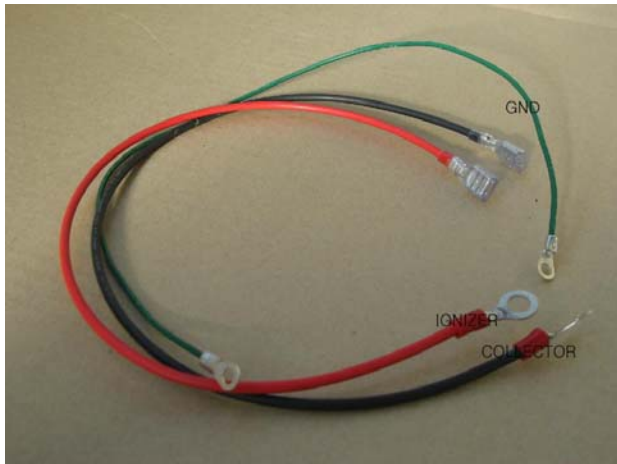
* Reference*

Red LED may be turned on by a over-current circuit caused by the over-load in normal operation, collection of foreign substances, the over-load by a short circuit or a bend of Collector's plate and IONIZER wire or saw plate. But it will soon operate because POWER PACK is normal at that time. Sometimes a FUSE of PCB may break by the over shocking current of an over-load, or a low voltage. At this time, change the FUSE of a rated current.

* Reference*

FUSE 2.5A (it's changeable to the capacity of a POWER)

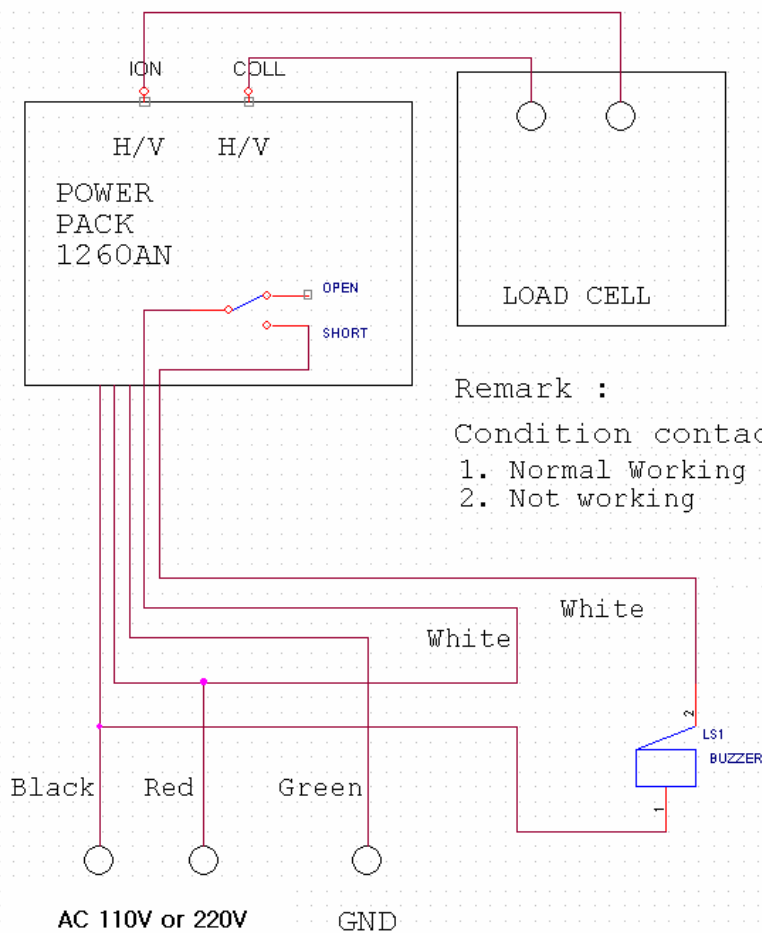
Accessory : Wire (GND, IONIZER, COLLECTOR)



Application :

Example

SJ-1260AN



Remark :

- Condition contact (white 2-wire)
1. Normal Working : White 2-wire Short
 2. Not working : White 2-wire Open
- (Buzzer working)



SEJIN ELECTRONICS, CO.

HIGH VOLTAGE POWER SUPPLY LIMITED WARRANTY



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This warranty does not cover any other charges incurred by the purchaser.

The sole responsibility of SEJIN shall be to repair the product within the terms stated above.

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