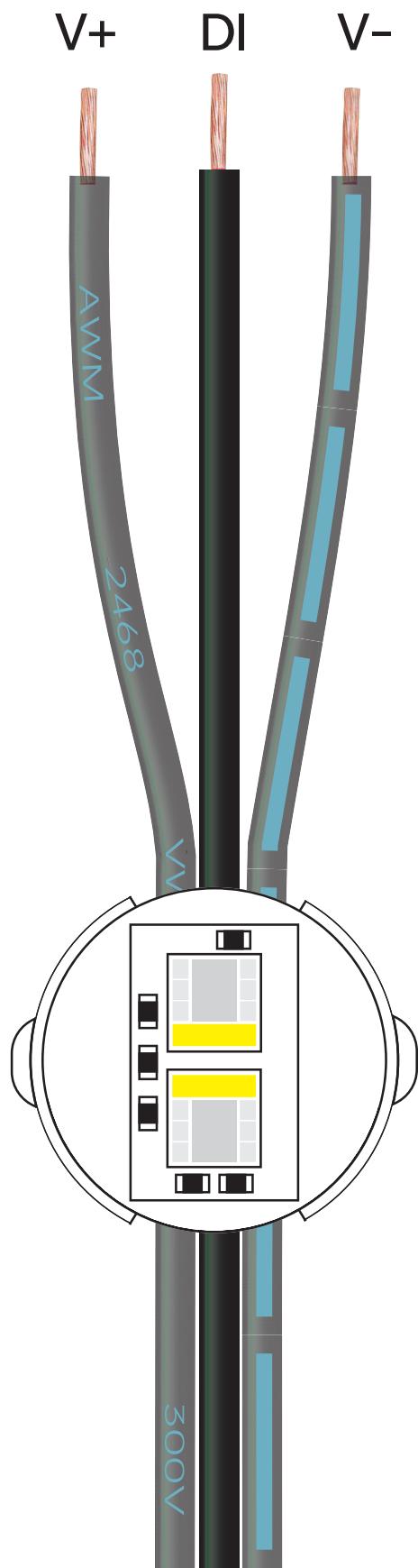


Permanent Light String Instruction Manual



Permanent Light String Wiring



V+ (Positive Line):

The V+ line is used to connect the positive terminal of the light string, typically connected to the output terminal of the transformer to provide the necessary voltage for the light string.

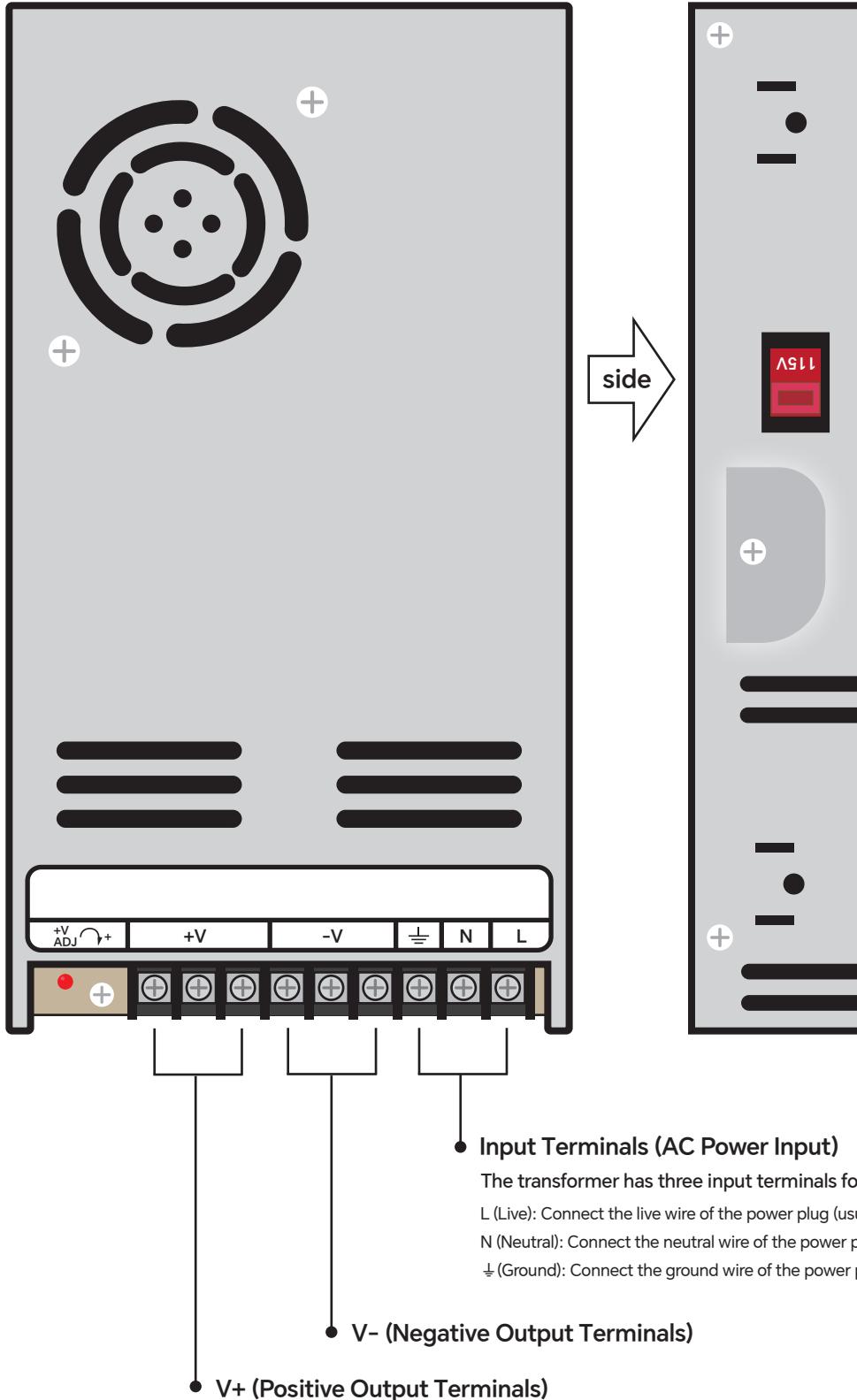
DI (Data Input Line):

The DI line is used to connect to the input terminal of the controller, transmitting control signals that regulate the display modes, color changes, and other effects of the light string.

V- (Negative Line):

The V- line is used to connect the negative terminal of the light string, typically connected to the negative output terminal of the transformer. It completes the circuit and ensures proper current flow.

Transformer Wiring & Voltage Setting Instructions



Voltage Selection Switch

A voltage selection switch is located on the side of the transformer to match your local power standard.



Suitable for regions using 115V AC (such as the U.S. and Canada).



Suitable for regions using 230V AC (such as Europe).

⚠ Important Reminder:

- Before powering on, make sure the switch is set to 115V (U.S. standard voltage).
- Incorrect setting may cause transformer damage or pose safety hazards.

Input Terminals (AC Power Input)

The transformer has three input terminals for connecting the AC power plug.

L (Live): Connect the live wire of the power plug (usually brown or black).

N (Neutral): Connect the neutral wire of the power plug (usually blue).

⏚ (Ground): Connect the ground wire of the power plug (yellow-green) to ensure electrical safety.

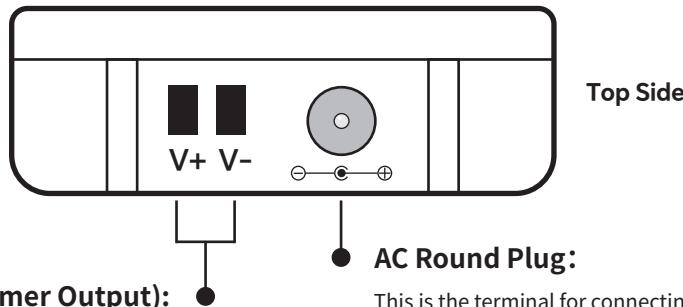
V+ (Positive Output Terminals)

V- (Negative Output Terminals)

⚠ Note: Always connect the wires correctly and ensure the ground wire is securely connected to prevent electric shock or equipment damage.

⚠ Tip: Use appropriate wire gauge and waterproof connectors to ensure secure connections and prevent short circuits.

Controller Wiring & Function Instructions

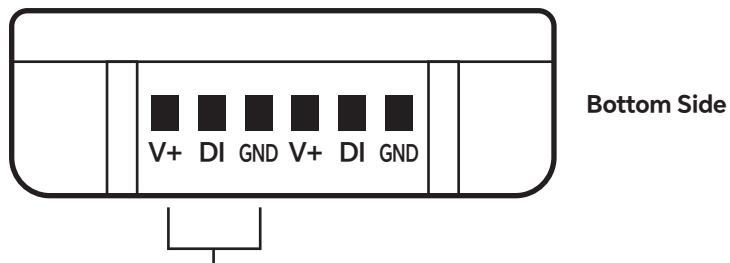
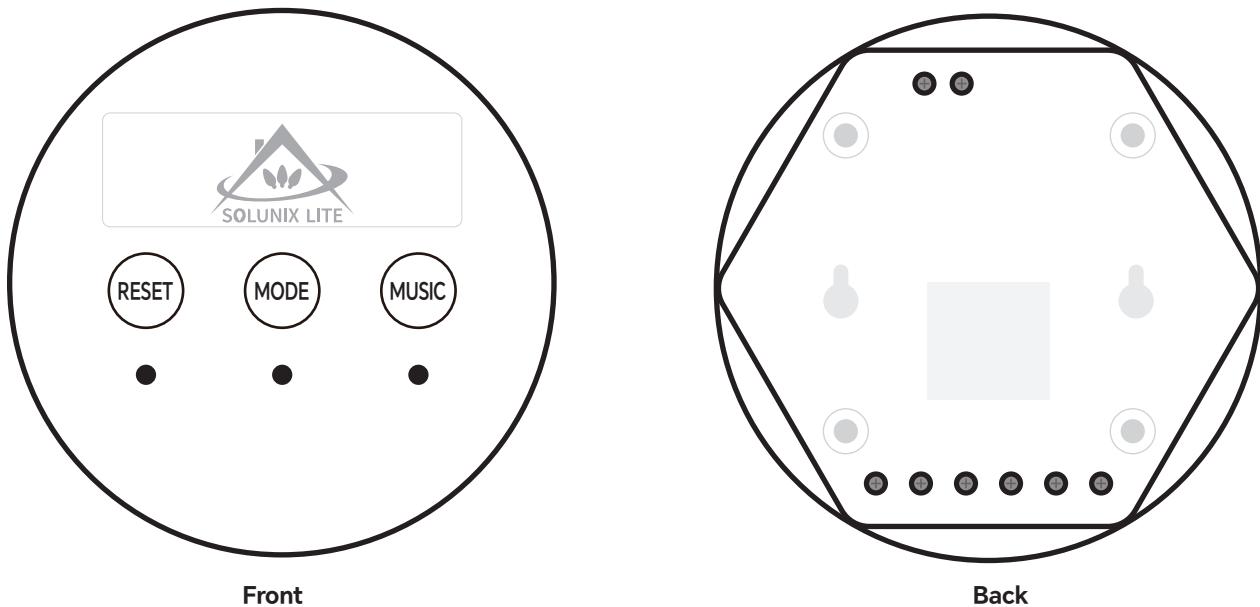


V+ and V- (Connect to Transformer Output):

There are two screw holes on the top side, V+ and V-, used to connect the V+ and V- output terminals of the transformer.

AC Round Plug:

This is the terminal for connecting the AC power plug.



V+, DI, and GND Terminals:

There are six wiring holes on the bottom side, divided into two sets, each consisting of V+, DI, and GND.

V+ and GND (Power Supply Connection):

V+ and GND can also connect to the V+ and V- of the light string, but to ensure voltage stability, it is recommended to connect the light string to the transformer.

DI (Data Input):

Used to connect the DI input line from the light string, controlling the lighting effects.



Remote Control

The controller supports a companion mobile app that allows you to remotely control the lighting effects.



Overall Wiring Overview

Important Notes:

Ensure Power is Off:

Always power off before wiring to prevent electric shock or short circuit.

Waterproof & Dustproof:

Use waterproof connectors and protective boxes for outdoor installations.

Avoid Overload:

Total load power must not exceed the transformer's rated output.

Wire Specifications:

Use the appropriate wire gauge to ensure stable current transmission and meet safety standards.

Plug Requirements:

Make sure the plug is compatible with the selected power supply wire and can securely connect to the power source.

Connection Order

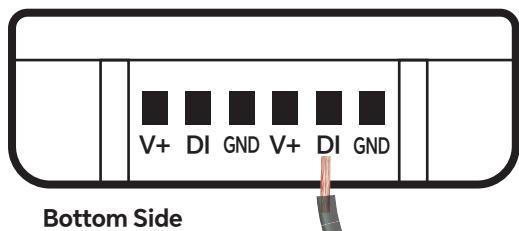
- ① Power plug → Transformer input terminals (L / N / Ground)
- ② Transformer output (V+ / V-) → Light string power wires (V+ / V-)
- ③ Controller DI → Light string DI input line

④ Controller Connection Wires

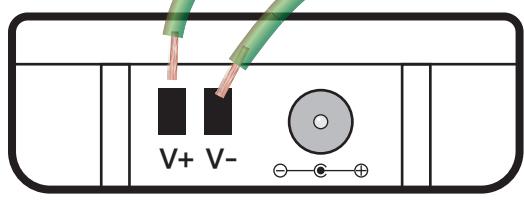
The green wires connecting the V+ and V- output terminals of the transformer to the V+ and V- input terminals of the controller must be prepared by you.

⑤ Power Supply Input Wire and Plug

The power supply input wire and plug for the transformer must be prepared by you. Please ensure that the selected wires and plugs comply with the local voltage standards.



Bottom Side



Top Side

