PRODUCT MANUAL

LEDWizard Manual LED Dimmer

Manual Content

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Product Description

Solid Apollo's LEDWizard Manual LED Dimmer is a basic yet powerful all-in-one device for controlling single-color LED fixtures that work between 12 and 24V DC. It is an excellent choice for applications that do not require frequent changes to the light settings.

Built on the principle of simplicity, this dimmer has ten simple buttons to do any type of control you will ever want on a single-color LED fixture. Each button has a single function that is include on/ off, brightness control, or saving functions.

In addition, no tools are required for installation. The dimmer is built with clearly labeled push down terminals for easy connection of LED fixtures and power supplies.

Product Features

- Manual dimmer with built-In buttons
- Controls single-color LED fixtures
- Two dim settings save buttons
- Powerful 4 x 5A outputs
- Operating voltage of 12V – 24V DC
- Max power output of 480W at 24V DC
- DMX in and out terminals
- Soft on/off and smooth 100-1% dimming
- Preset brightness buttons for 25%, 50%, 75%, and 100%.

Product Specs

- Input Voltage : 12 - 24V DC
- Max Power : 240W@12V DC - 480W@24V DC
- Max Amp : 4 x 5A
- Dimenson : 6.5" x 2.1" x 0.9"
- Product Color : White
- Working Temp. : -4°F – 122°F
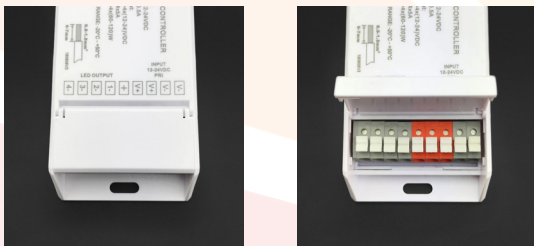- Warranty : 3 Years
- Certificates : CE, RoHS

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Product Installation Guide

Installation

1. Verify that the Power Supply has the right voltage and Wattage required for your application.

2. Open the endcaps to access the push-down terminals located under one of the endcaps.

3. To connect power to the dimmer:

A. Strip off about ¼-inch of the plastic jacket from the ends of the Power Supply's wires. Twist each wire to bind the strands together for a better installation.

Connect the Red (positive) wire of the Power Supply to the V+ (**orange**) of the "INPUT" push-down terminals. This is done by pushing and holding down the button on one of the V+ orange terminals and then installing the wire into its slot on the side Connect the Black (negative) wire to one of the V- (grey terminals in the "INPUT" side of the dimmer) in a similar manner (please refer to the wiring diagram for detailed wiring - pg.5).
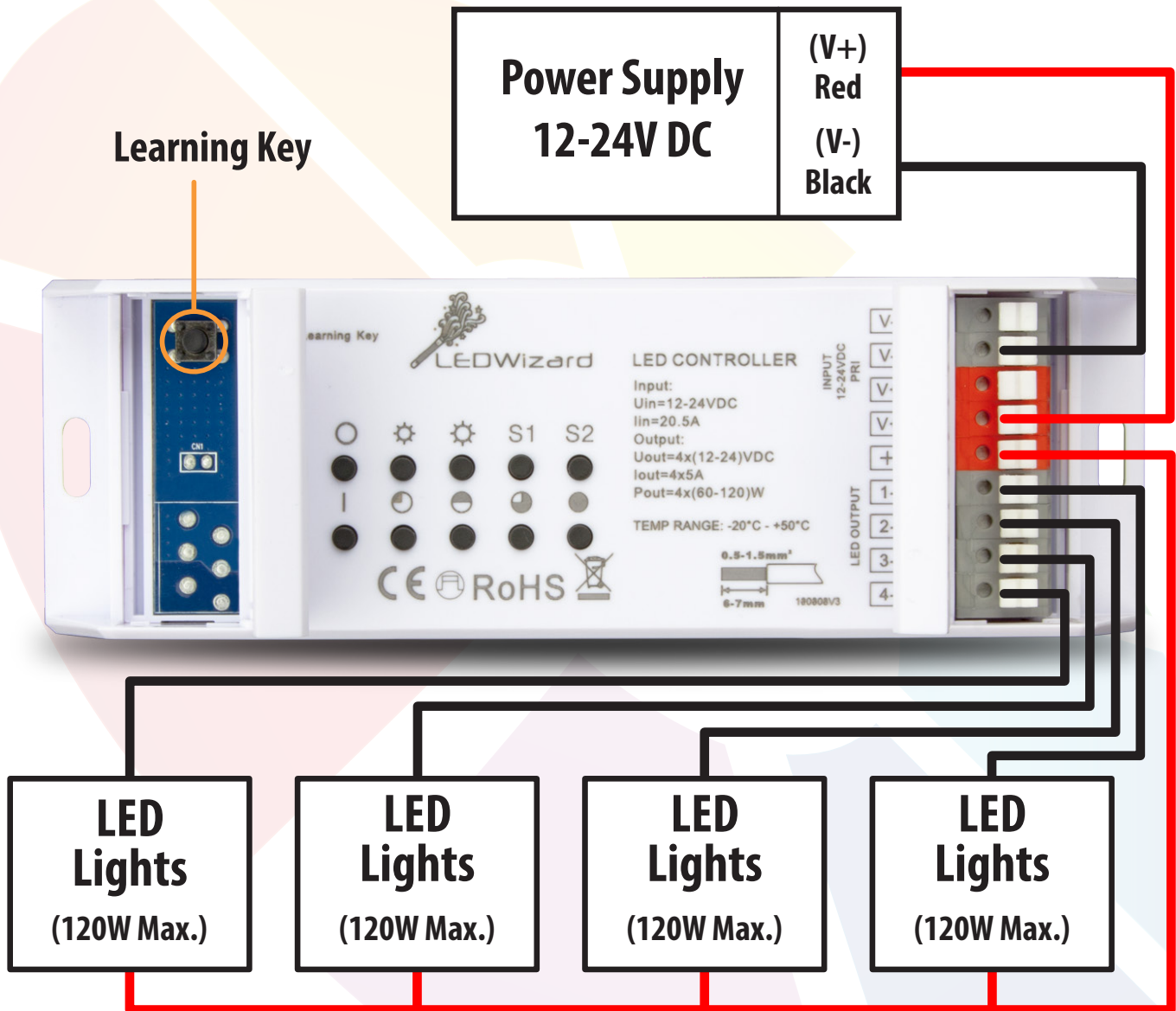

4. To connect power to the dimmer:

A. Strip off about ¼-inch of the plastic jacket from the ends of the LED Fixture's wires. Twist each wire to bind the strands together for a better installation.

B. Securely connect the LED fixture's wires to the "LED OUTPUT" push-down terminals with the positive wire connected to the + terminal and the other wire(s) to any of the 1-, 2-, 3-, or 4- terminal (please refer to the wiring diagram for detailed wiring - pg.5).
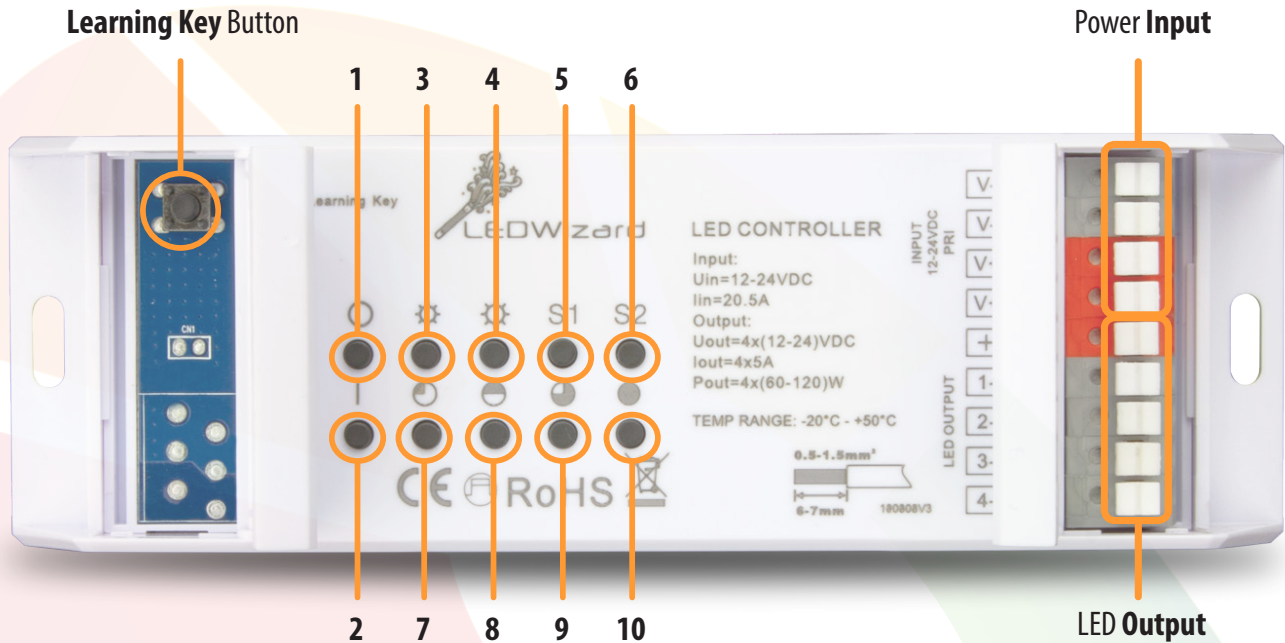

5. Plug the power supply/transformer to a power outlet and power up.

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Wiring Diagram

Learning Key

Power Supply 12-24V DC

(V+) Red
(V-) Black

LEDWizard — LED CONTROLLER

Input:
Uin=12-24VDC
Iin=20.5A
Output:
Uout=4x(12-24)VDC
Iout=4x5A
Pout=4x(60-120)W

TEMP RANGE: -20°C - +50°C

CE RoHS

0.5-1.5mm²
6-7mm   180808V3

LED Lights (120W Max.)

LED Lights (120W Max.)

LED Lights (120W Max.)

LED Lights (120W Max.)

Note: The LEDWizard Manual Dimmer can drive up to 240W at 12V DC or 480W at 24V DC. However, each of the 4 output terminals is 5A and can only handle a maximum wattage of 60W at 12V DC and 120W at 24V DC. Do not put on one output a load (LED Fixture) that is more than the maximum wattage it can handle. If the load is more than 60W and you are using a 12V DC Power Supply, make sure to split the load and use more than one output.

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Product Operation

Learning Key Button

Power **Input**

LED **Output**

Button Functions

See diagram above for corresponding button numbers.

Button	Function	Operation
1	Turns ON the LED fixtures	Simple push
2	Turns OFF the LED fixtures	Simple push
3	Gradually dims down the LED fixtures	Push and hold
4	Gradually brightens up the LED fixtures	Push and hold
5	Saves the current brightness level of LED fixtures	Push and hold
5	Recalls the saved brightness setting	Simple push
6	Saves the current brightness level of LED fixtures	Push and hold
6	Recalls the saved brightness setting	Simple push
7	Automatically sets the brightness level of LED fixtures to 25%	Simple push
8	Automatically sets the brightness level of LED fixtures to 50%	Simple push
9	Automatically sets the brightness level of LED fixtures to 75%	Simple push
10	Automatically sets the brightness level of LED fixtures to 100%	Simple push
Learning Key	Activates the buttons for use after installation	Simple push
Learning Key	Pairing the dimmer to compatible remote controllers	Simple push
Learning Key	Resets the dimmer to factory default	Push and hold

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Product Troubleshooting

The following recommendations can help in troubleshooting the LEDWizard Dimmer

1. **LED fixtures do not turn on after installation and powering up:**

   a. Ensure that the correct voltage requirement of the LEDWizard dimmer is supplied.

   b. Ensure that the wiring of the power input to the LEDWizard is correctly done with the Red wire connected to one of the V+ terminals of the dimmer and the Black wire connected to one of the V- terminal.

   c. Ensure that the LED fixtures are correctly wired in the "LED OUTPUT" push-down terminals of the LEDWizard dimmer.

2. **LED fixtures are "on" but do not respond when the control buttons are pressed: :**

   a. Push the Learning Key button once and then push any of the buttons to activate dimmer.

Safety Recommendations

In order to efficiently operate the LEDWizard Dimmer, it is important to correctly and safely install it.

1. Obtain the right accessories (LED fixtures, wires, connectors, etc.) beforehand.
2. Install the product according to your local electric code requirements.
3. Ensure that the product is properly installed with the right accessories and guidelines.
4. Ensure that wires or cables are correctly connected to the right ports or terminals.
5. Do not try to install the LED fixtures wires while the product is powered on.
6. Ensure that the product is placed or mounted in a dry location.
7. Ensure that peeled (bare) sections of the wires going into push-down terminals are not extending out of the terminal without the insulation.
8. Connect and test the product with the accessories to ensure everything works before final installation.
9. Install the product at an accessible area for easy settings adjustment when needed.

The product is backed by a 3-year warranty. Please refer to www.solidapollo.com for more information on warranty coverage.