

Solar Panel Quick Start Guide

Connecting to Solar LED Christmas Light Strings

1. Install the Solar Christmas Light Strings to the solar panel using the 3-pin screw connectors. Align the key before connecting the male and female connectors together.
2. For all 3-pin connections, screw on the cap to seal the connection and protect from weather damage.



Mounting Solar Panel Assembly

3. Insert the connecting rod into the slot just below the battery cover.
4. Connect the spike to the connecting rod.
5. Insert the spike with solar panel assembly in the desired location where the panel will get the most sunlight throughout the day. The spike should be mounted in such a way that the solar panel is facing south at a 20° - 30° angle.
6. Charge the solar panel in direct sunlight for at least 8 hours before powering any Christmas lights. If it is a cloudy day, it may take longer to fully charge.



Controlling Solar LED Christmas Light Strings

****NOTE: The solar panel will NOT turn lights on unless it is night time or the panel is in a dark environment. Position the panel face down to test.**

7. Choose a time in the evening that is desired for the Christmas lights to turn on each night. Wait until the chosen time, then press the button on the back panel to turn lights on. Note that the lights will NOT stay on if ambient light sensor on the top of the solar panel detects light (> 500 lux).
8. Press the button again to scroll through the 8 lighting modes until the desired lighting mode is reached.



The 24-hour timer cycle (6 hours on, 18 hours off) begins when you turn the lights on. This cycle will repeat every day. To reset the timer, hold the button for 5 seconds. Then repeat Step 7 and 8.

9. Confirm the following before leaving the maintenance free Christmas lights:
 - a. The solar panel will be exposed to the sun as much as possible each day.
 - b. The solar panel is not too close or directly facing any light source at night.
 - c. All keys are all aligned at each connection and caps are screwed on tight.
 - d. The Christmas lights turned on at night time.
 - e. The spike is secured in its position where it will not get knocked over by wind/rain/snow.

Please read the Solar LED Christmas Lights Manual for complete set up instructions and troubleshooting guide, which can be found at the link below.

http://www.environmentallights.com/files/documents/Solar_LED_Christmas_Lights_Manual.pdf

Battery Box Controller: solar-battop-ctrl-1 Quick Start Guide

1. Install four new AA 1.5VDC Batteries (not included) in the controller by unscrewing the cylinder cover from the top cap. After installing batteries, screw the cylinder cover back to the top cap.
2. Connect the solar Christmas light strings to the controller by aligning the keys on the connector.
3. For all 3-pin connections, screw the cap onto each connector.
4. Press the button on the cylinder at the time it is desired for the lights to turn on each day.
5. Press the button again to scroll through the 8 lighting modes until the desired lighting mode is reached.

To reset the timer, hold the button for 5 seconds. Then repeat Step 4 and 5.

Battery Box Controller: solar-battop-ctrl-2 Quick Start Guide

1. Install three new D 1.5V Batteries (not included) in the controller by unscrewing the 4 screws on the back of the box. After installing the batteries, screw the box back together.
2. Connect the solar Christmas light strings to the controller by aligning the keys on the connector.
3. For all 3-pin connections, screw the cap onto each connector.
4. Press the ON/OFF button on the front of the battery box to turn on the lights.
5. Press the FUNCTION button until the desired lighting mode plays.
6. Press TIMER button at the time it is desired for the lights to turn on each day. The 24-hour timer begins when TIMER is pressed on (button will be green). To reset the timer, press TIMER to turn off, then press TIMER again (button should be green).

Plug-In Power Adapter Controller: solar-adapt Quick Start Guide

1. Connect the power adapter to the 3-pin connector cable by aligning pins 0, 1 and 3.
2. Connect the opposite end to the solar Christmas lights by carefully aligning the keys on the connector.
3. For all 3-pin connections, screw the cap onto each connector.
4. Plug in the power adapter controller into a 120 VAC outlet.
5. Press the button on the adapter until the desired mode plays.



Plug-In Power Adapter Controller: solar-adapt-ir Quick Start Guide

1. Connect the power adapter to the 2-pin connector cable by aligning the pins to the slot and the hole of the power adapter.
2. Connect the opposite end to the solar Christmas lights by carefully aligning the keys on the connector.
3. For all 3-pin connections, screw the cap onto each connector.
4. Plug in the power adapter controller into a 120 VAC outlet.
5. Press ON located on the IR remote.
6. To begin and repeat the 24-hour cycle (on for 6 hours, off for 18 hours), press TIMER ON. To remove the timer, press TIMER OFF.
7. Press any of the numbers 1-8 on the remote to choose the lighting mode. If the timer is used, the same lighting mode will automatically turn on each day. Note: If power being supplied to the adapter is disconnected (i.e. power adapter is unplugged from the outlet), the memory function will restart and the lights will revert to Mode 8.



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