


Thank you for choosing Environmental Lights 7000 series solar powered LED Christmas Lights. Please read these instructions carefully before using!

1. FEATURES

- 1.1. This product is self-powered, economical, ecofriendly and safe.
- 1.2. Cordless, easy to install, fully sealed, suitable for outdoor applications, maintenance free.
- 1.3. Must be used in an area with sunshine.
- 1.4. Automatically turns on and off by ambient light sensor or timer (can be controlled manually by /MODE button).

Lighting Modes:

1	Combination (Cycle Effects)
2	Chasing
3	Gradual Change
4	Twinkling
5	Flashing
6	Steady-on

2. TECHNICAL DATA

Ni-MH Battery		Solar Cell			Run Time	Average	LED		Length (m)
Capacity (mAh)	Voltage (V)	Power (mWp)	Current (mA)	Voltage (V)	Fully Charged (hours)	Life (years)	Diameter (mm)	Quantity	
1200	2.4	800	200	4	20-40	2	5	100	10

Note: 1. The battery is fully charged after 10 hours in direct sunlight.

2. It will take longer to fully charge the batteries when weather is cloudy or overcast.
3. Ambient temperature will also affect charging and operating time. It will charge fastest and operate longest at 25°C.
4. Specifications subject to change without notice.



Other Data:

On/Off Conditions	Photo sensor: Turns on at 75±25 lux, turns off at 125±50 lux (after 1 minute) Timer: Turns on at 75±25 lux, turns off after 6, 8 or 10 hours
Memory	Remembers last lighting mode & timer setting
Waterproof Rating	IP44
Ambient Temperature	-20°C~60°C
Dimensions	123mm x 98.5mm x 28mm
Weight	560g

3. OPERATION

Expose the solar panel to direct sunlight for 10 hours to charge the batteries before using.

3.1. Lighting mode adjustment:

- Put the solar panel in dark place with light intensity less than 50 lux or cover the solar panel with a black cloth. The lights turn on automatically if the ambient light intensity is less than 75±25 lux, and off (after 1 minute) if the light intensity is higher than 125±50 lux.
- Press /MODE (see Figure 1) to turn on the LED lights.
- The default lighting mode cycles through all of the effects (Chasing→Gradual Change→Twinkling→Flashing).
- Press /MODE to change the lighting mode. After 6 presses, lights turn off.
- Controller will remember the selected lighting mode when it turns back on.

3.2. Timer adjustment:

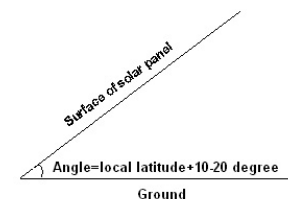
- By default, lights turn off when ambient light exceeds 125±50 lux, but they can also be set to turn off after running for 6 hours, 8 hours or 10 hours.
- Press Timer button (see Figure 1) when lights are on to set timer. Lights will flash to indicate your selection:
 1. 6 hours – lights flash twice
 2. 8 hours – lights flash 4 times
 3. 10 hours – lights flash 6 times
- Controller will remember the timer setting.
- Press any button to activate the lights after timer shutoff. Lighting mode and timer setting will be recalled.
- Turn lights off manually to cancel timer.

3.3. Installation:

- **Proper placement of the solar panel is essential for maximum photovoltaic efficiency and battery life. Ensure it is exposed to the sun as much as possible and facing south. Efficiency will only be 10-20% if the solar panel is not facing the sun.**
- **Do not set the solar panel horizontally or vertically, but at an angle of local latitude plus 10 to 20°.**
- Solar panel can be installed with stake (Figure 2) and adjusted up or down.

3.4. Battery replacement:

Please refer to Figure 3 to replace the rechargeable batteries.



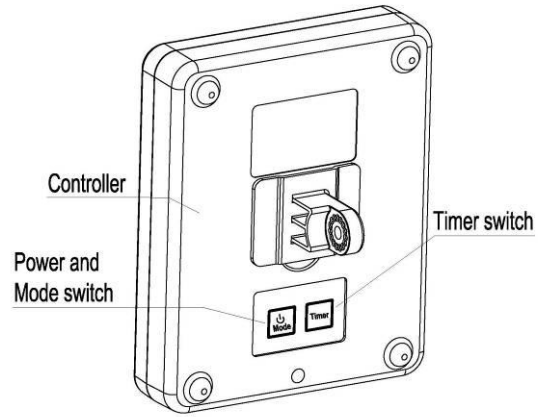


Figure 1 – Buttons

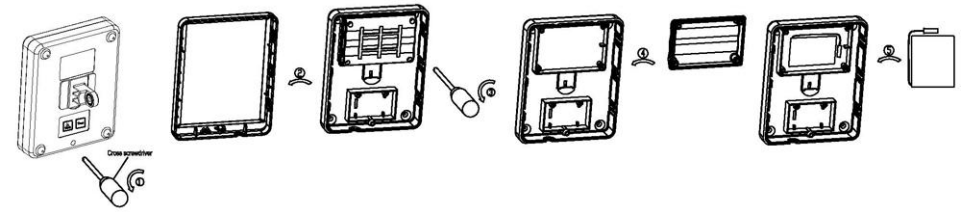



Figure 3 – Rechargeable Battery Replacement

4. NOTES

- 4.1. If the battery is not used for a long time, it will slowly discharge and the /MODE button may not work properly. Charge for 1-2 hours and try again. Fully charge to save battery life.
- 4.2. We recommend charging it in the sun for about 2-3 hours every 3 months to protect the Ni-MH battery.
- 4.3. If the battery does not last after charging in direct sunlight for 10 hours, it is time to replace the battery.
- 4.4. Locate the solar panel in direct sunlight for maximum charge.
- 4.5. Clean the solar panel gently with a soft cloth for the best photovoltaic efficiency. Don't use a corrosive solution.
- 4.6. Recycle the battery in the controller pack as you would the battery in any mobile phone.
- 4.7. Keep away from heat and fire.

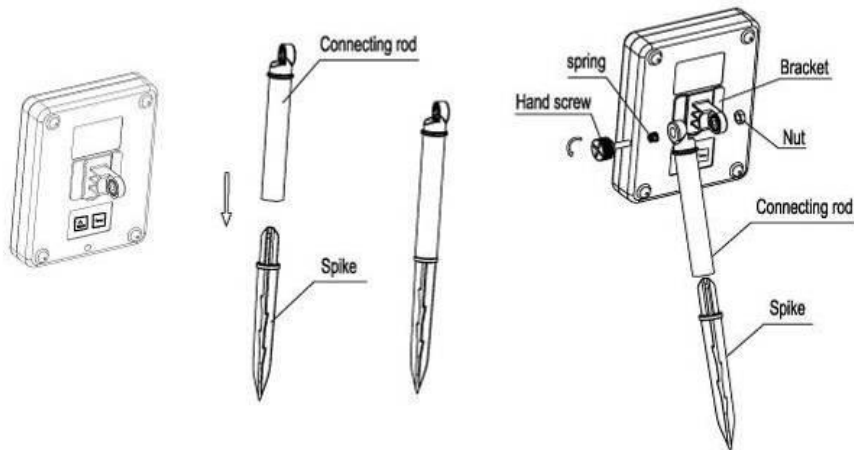


Figure 2 – Attachment of Stake