

Thank you for choosing eLEDing!

Introduction and Intellectual Property Rights Statement

This product is designed to provide years of trouble-free services by using environment-friendly Solar-Hybrid-Lithium based energy technologies. Covered under US, European, China and other international patents granted and pending worldwide. All rights reserved.

The performance of this unit is highly related to its mounting location, direction of the solar panel, weather conditions and local environment. Therefore, to maximize the performance of the unit, user(s)/installer(s) must read this instruction before installation. DIY user(s) must have knowledge on AC/DC electric/electronic projects and related construction/installation experiences. Otherwise, user(s) should consult with local experienced electrical & electronics installers or technicians for assistance. Before installation, user(s) should be aware of and comply with local construction laws, electrical code and life & safety standards/regulations that are applied for this lighting project. During installation, please follow proper safety guidelines to prevent any possible accidents or injuries.

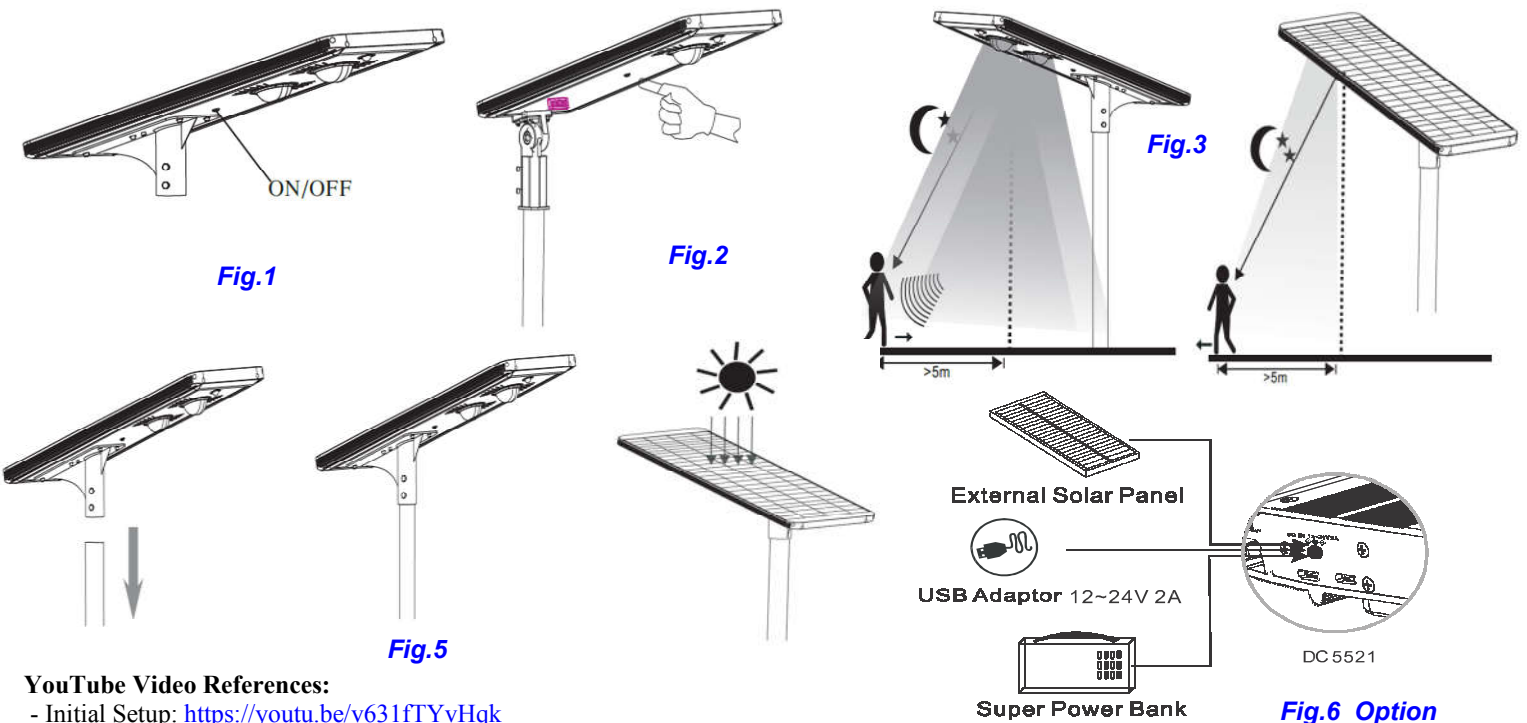
Initial Function Testing: The purpose of this step is to ensure the light unit and control system as well as every component are all function and in normal working condition. This light unit had been fully charged before shipping out, but switch OFF to pre-charge it by Sunshine condition for 1-2 days before in use will be recommended.

Only One Step Setup: Momentary press on the button/switch once (Fig.1 or 2), the light unit will turn on, indicating the lighting system and motion detection mode are activated for illumination. At daytime condition to test this unit, user can simulate nighttime condition by cover the solar panel with a large size cardboard. Once the solar panel been covered, the light will immediately turn on; then remove the cardboard the light will turn off automatically as photo cell function. If the light function as described above, the light is function normal and will provide all-night-long illumination with SMART lighting profile during nighttime after fully charged.

SMART lighting profile: Under eLEDing's software-based Intelligent Power Management (IPM) system, the innovative SMART lighting profile offers Dusk-to-Dawn lighting capability. It offers auto compensation during critical weather within different geographic locations. During nighttime, the light will automatically activated when the ambient light is lower than 10 LUX, and keep lighting with maximum brightness for the first 5 hours for most traffic period timing window, and then automatically dim to 20% of full brightness for energy-saving purpose. Once motion being detected within saving mode period, the light will automatically come up to maximum brightness for 30 seconds and back to dimming profile when motion disappear. If motion continues, the light will keep lighting with maximum brightness. (Fig. 3, 4)

Installation Guidelines

1. Follow above standard setup procedure to activate the lighting system (Fig.1 or 2)
2. Securely mount the unit on the light pole, adjust the light head direction based on your need (Fig.5)
3. The light will automatically shut down and charge during daytime sunshine condition
4. Suggested Mounting Height: 15-20 ft
5. Diameter of Mounting Adaptor: EE850W-SH30 (3"); EE860W-SH40 (3"); EE870W-SH50 (3-3/8"); EE880W-SH60 (3-3/8"), refer (Fig. 7)
6. Fixed light head angle to ground: 15 degrees or by fixed MFC
7. **Solar Panel Direction:** The solar panel must be mounted in a non-obstructed position where it will receive an average of at least 5 hours daily direct sunlight all year round. For Northern hemisphere installations the solar panel can be mounted facing to East-South-West with direct southerly facing position is best and visa-versa for Southern hemisphere installation. As a option as required, AUX DC power sources can be use either for quickly charge light unit before installation, or/and for poor sunshine location or position with back-up power source or as a charging enhancement method (Fig. 6)
8. **Solar Panel Maintenance:** Use a soft wet cloth to periodically (at least once a one year) clean the solar panel to avoid the reduction of energy output due to accumulated dust. Clean accumulated snow as soon as possible during the snowing season.



YouTube Video References:

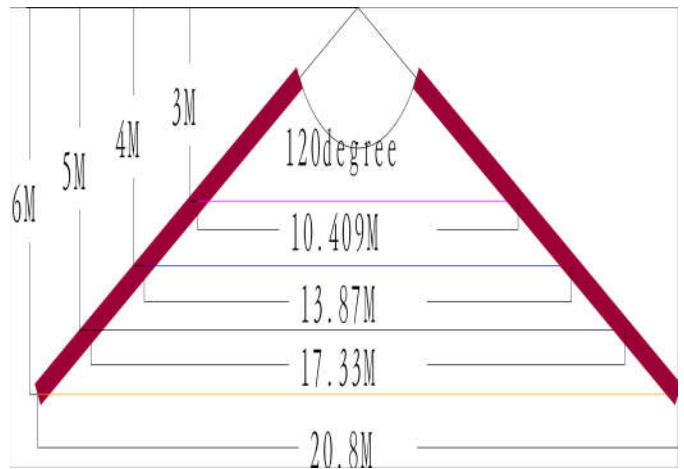
- Initial Setup: <https://youtu.be/v631fTYvHqk>

Installation Instruction

Specifications	EE850W-SH30	EE860W-SH40	EE870W-SH50	EE880W-SH60
Self-contained design and made (IP65)	Yes	Yes	Yes	Yes
LED Number	1pc	1pc	2pc	2pc
LED eMitter output (Max on peak)	30W	40W	50W	60W
Illumination brightness (Lumen on peak)	3000+	4000+	5000+	6000+
LED illumination color	5000K	5000K	5000K	5000K
Energy Storage Packs: Li-Poly Battery	325WH	520WH	586WH	651WH
Intelligent power management (IPM)	Yes	Yes	Yes	Yes
Solar Panel: Mono-crystalline Tempered Glass	50W	60W	70W </td <td>80W</td>	80W
Light Size (L x W x H)	37"x17.5"	39.5"x17.5"	42"x17.5"	48"x17.5"
Unit Weight (lbs)	33	39	48	56
Mounting Tube Adapter	Yes	Yes	Yes	Yes
Mounting Adaptor Diameter	2-3/4"	2-3/4"	3-1/4"	3-1/4"
Package Weight (lbs)	36	42	50	59
Package Size (L x W x H)	38.5"x21"x11"	43"x21"x11"	46"x21"x11"	52"x21"x11"
Aux Solar Panel/DC Adapter Available	Option	Option	Option	Option
Charging Time	6-8hrs	6-8hrs	6-8hrs	6-8hrs
Operation Temp.: - 4°F to +125°F	Yes	Yes	Yes	Yes
Complies with FCC Part 15 Class B and ICES-003:2004	Yes	Yes	Yes	Yes

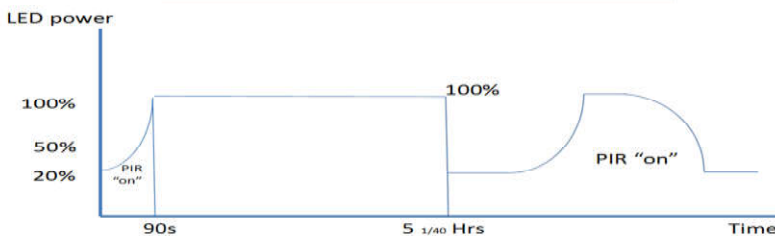


Recommended Mounting Reference Fig.7



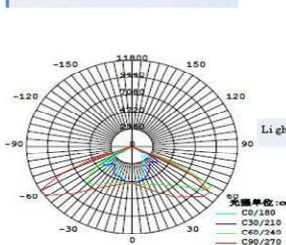
Mounting High vs PIR Profile

Solar LED Street Light Lighting (90s PIR +5hrs High bright + PIR until dawn)



IPM Illumination Profile Fig.4

Polar light distribution curve



Coordinate light intensity distribution curve

