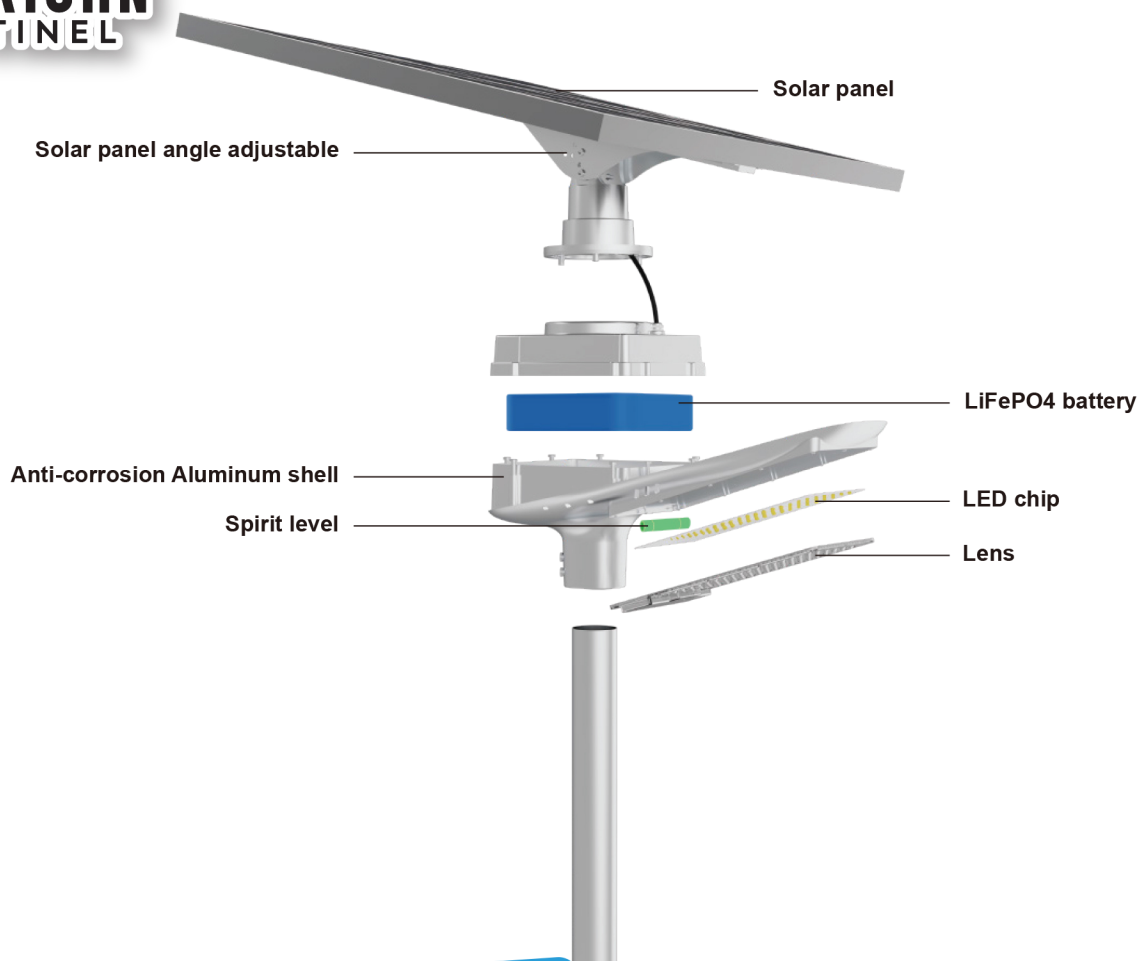




Solar Sailing Light





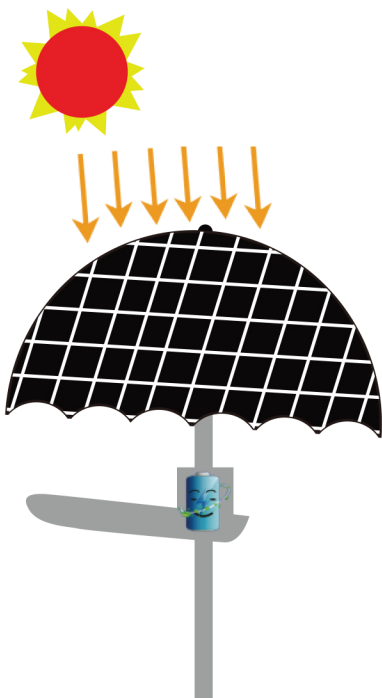
Unique Structure Design



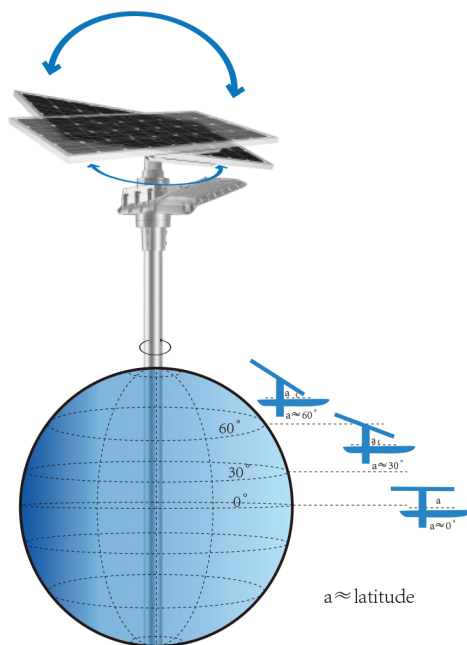
Solar Sailing Light



The panel's design serves a dual purpose: it captures sunlight for power generation while also functioning like an umbrella to protect the battery from overheating, thus enhancing its lifespan by ensuring effective heat dissipation.



The solar panel can be manually adjusted both vertically and horizontally, ensuring optimal solar energy capture and maximizing the efficiency of solar conversion.





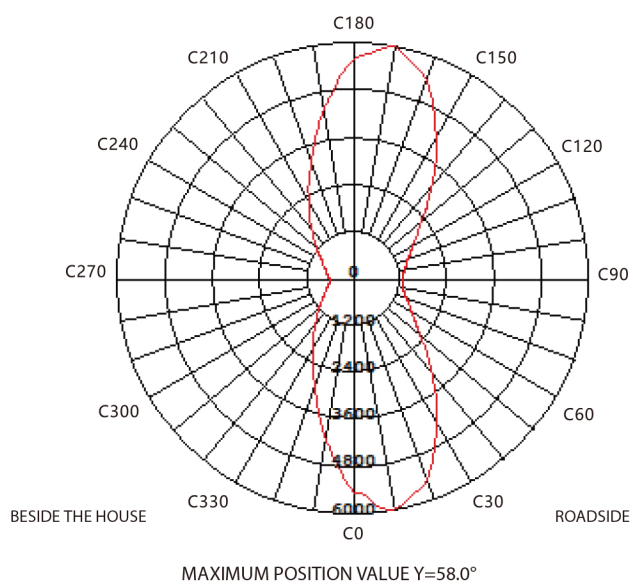
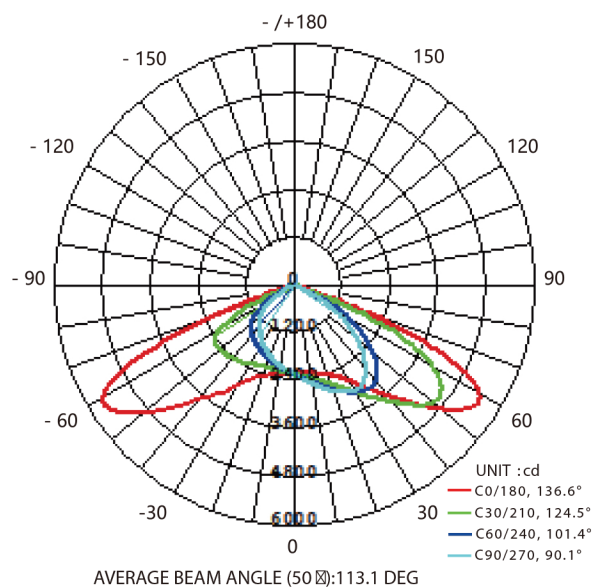
Light Post Installation Height Recommendation Diagram

(Solar Sailing Light ☒)



LIGHT DISTRIBUTION

Luminous intensity distribution curves



Solar Sailing Light ☒



MPPT Technology

Incorporates Maximum Power Point Tracking (MPPT) for an energy utilization increase of 15% to 20% compared to traditional PWM controllers.



Multi-Peak MPPT

Utilizes a patented solar controller with multi-peak MPPT technology to dynamically track the maximum power point, enhancing solar panel conversion efficiency.



Intelligent Power Control (IPC) 5.0

Latest IPC 5.0 technology intelligently adjusts power discharge based on recent weather data to extend illumination during overcast or rainy conditions.



Low Power Consumption for Transport and Storage

Designed to minimize energy consumption during transport to less than 0.05mA. Features circuit protection for long-term storage, with sleep mode power usage in the microampere range, enabling worry-free storage for up to two years.



Intelligent Charge and Discharge (ICD) Technology

Utilizes Grade A LiFePO4 batteries, known for their superior safety features. The system includes current equalization and dual protection (software and hardware) ensures the battery retains 90% of its capacity after 2000 cycles. This provides a lifespan quadruple that of lead-acid batteries.



High Efficiency LED Chips

Equipped with 140 pieces of highly efficient 5050 LED chips, optimized for brightness with each LED offering over 190 lumens per watt. The aluminum chip base aids in excellent heat dissipation.



Battery Management Program

Upgraded battery management program that enhances overall system stability and extends operational lifespan.



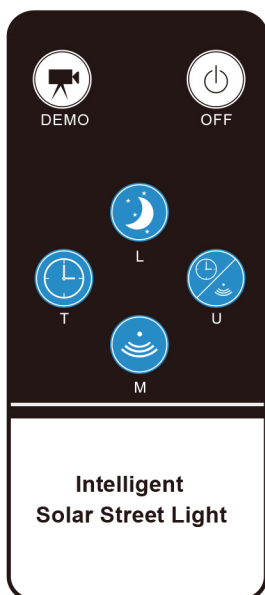
AI-Driven Intelligent Monitoring System

Version 5.0 of AI-driven intelligent monitoring, which detects weather conditions to adjust power output, ensuring longer operational days even in adverse weather.



REMOTE CONTROL

6 working modes



-  **DEMO:** No matter day or night, light "on" for 1 minute. Only for test use
-  **OFF:** Light "off", no matter day or night
-  **L:** At night, 100%-2hrs, 60%-3hrs, 20%-dawn
-  **T:** At night, 100%-3hrs, 50%-3hrs, 30%-2hrs:
-  **M:** At night, 100%-3hrs, 50%-3hrs
-  **U:** At night, 100%-3hrs, 50%-3hrs(Highlight mode)

Note: The default setting is **L Mode**, but you can select the best mode based on different lighting conditions.

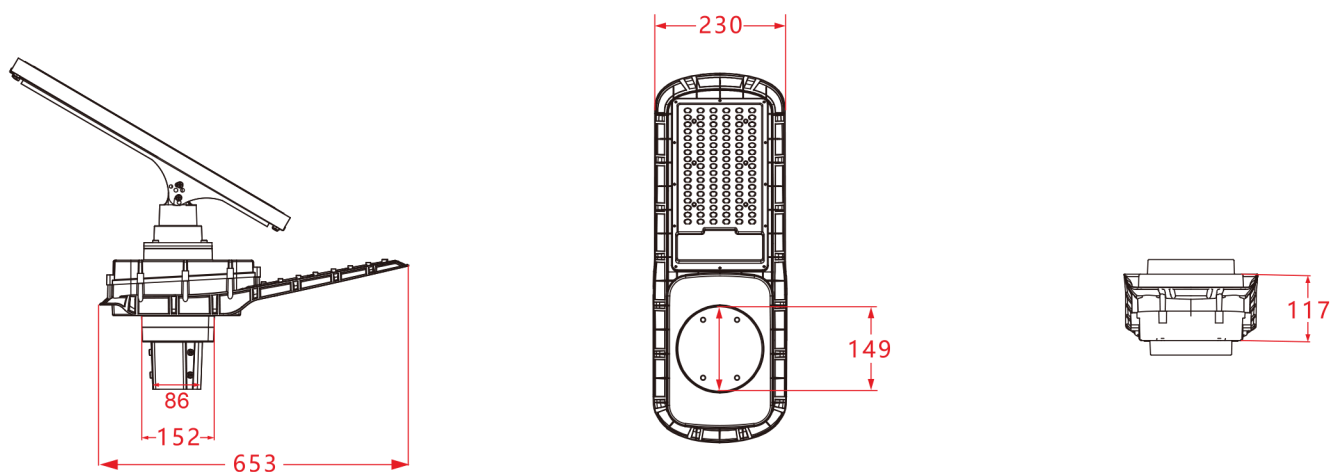
- **LED Indicator Lights:** The three LED lights will blink to indicate a successful mode change.
- **Mode Retention:** Once a mode is successfully set, it will remain active until changed using the remote control.
- **U Highlight Mode:** Boosts brightness by 30% from the original setting. For instance: 3H at 130% brightness, 3H at 80% brightness.



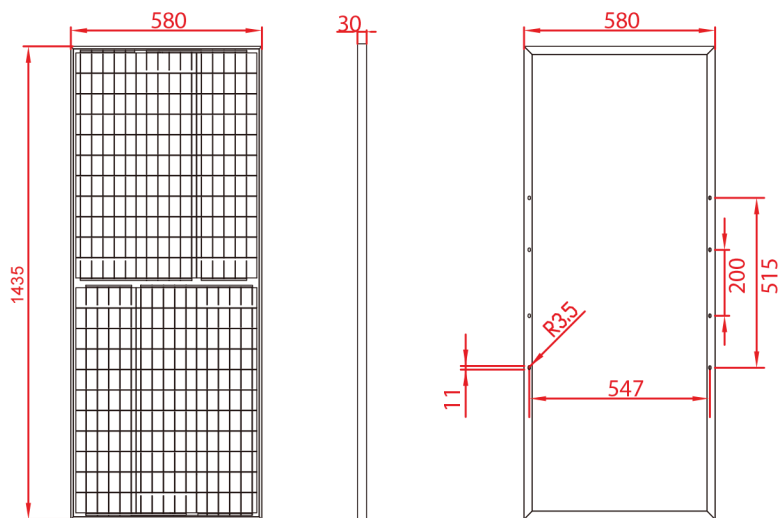
PRODUCT DIMENSIONS

Lamp Holder Size

Solar Sailing Light



Solar Panel



150W



PARAMETERS

Technical parameters

Type	AS-S100L
Lamp head	
Light output	100W
LED chip	140pcs(5050)
Luminous flux	13600-14400lm
Beam angle	155°*55°
Lifespan	50000hrs
IP Rating	IP65
Working temperature	-20°C~60°C (Charge above 0°C)
Color temperature	3000-7500K
CRI	Ra≥70
SOLAR PANEL	
Power	150W
Voltage	18V
Solar cell efficiency	19%-22%
Material	Monocrystalline silicon
BATTERY	
Capacity	640WH
Lighting time(full charged)	5-7 rainy days
Lithium battery	LiFePO4
INSTALLATION	
Top diameter of pole	76 mm
Mounting height	8-10M
Installation spacing	20-40M



Solar panel



lamp holder

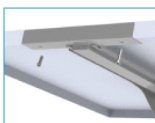
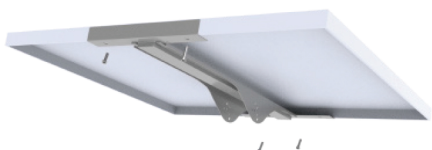


Sleeve



Bracket

Integrated Design Concept



1 : Solar panel assembly and fixation
with 4 screws



2 : Install and fix the solar panel bracket
with 4 screws



3 : Connect the solar panel to the lamp
body with 3 screws



4 : The lamp body and the lamp pole are
connected and fixed with 4 screws