

LEADSUN[®]
“Bright Ideas For An Even Brighter Future.”

LEADSUN INC.

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**PRODUCT
CATALOGUE**

ADVANTAGES | SPECIFICATIONS | APPLICATION

Solar Lightings & Off-Grid Solutions



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CATALOGUE



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ABOUT US

LEADSUN's is a technological innovation corporation and one of the industrial leaders in delivering solar lighting & off grid LED lighting solutions worldwide. Our commitment to sustainability dates back to our roots in 2005, with the invention of the first All in One solar street light.

With its headquarters in China and its branches & research institutes in Australia, USA and Europe, LEADSUN's products has been sold in more than 100 countries and regions.

As a pioneer of All-in-One solar street light, LEADSUN achieves the mission of “Bright Ideas For An Even Brighter Future” by continuously improving intelligent products, energy efficient solutions and next gen smart systems that work seamlessly together to deliver on the promise of smart cities and communities.

The future is being built today, and Leadsun is making that future more productive, more eco-friendly and more sustainable.


CORE ADVANTAGES


Intelligent Steady State Controller


Overall Protection for System Security


In-house R&D High efficient controller, intelligently regulate the output power adapting to varying weather, rational programming discharge output.


Multi-Protection



Overload


Over current


Over temperature


Over voltage


Overcharge


Over discharge

 **Modular design,**
Easy to maintain and change

 **External configuration interface**
Modify work mode



High Efficient Solar Panel

Maximize Energy Utilization



Back

Front



Mono-crystalline
silicon solar panel



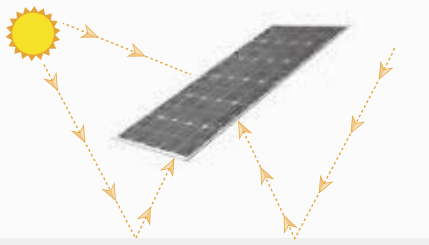
Over 19.6%
transfer efficiency



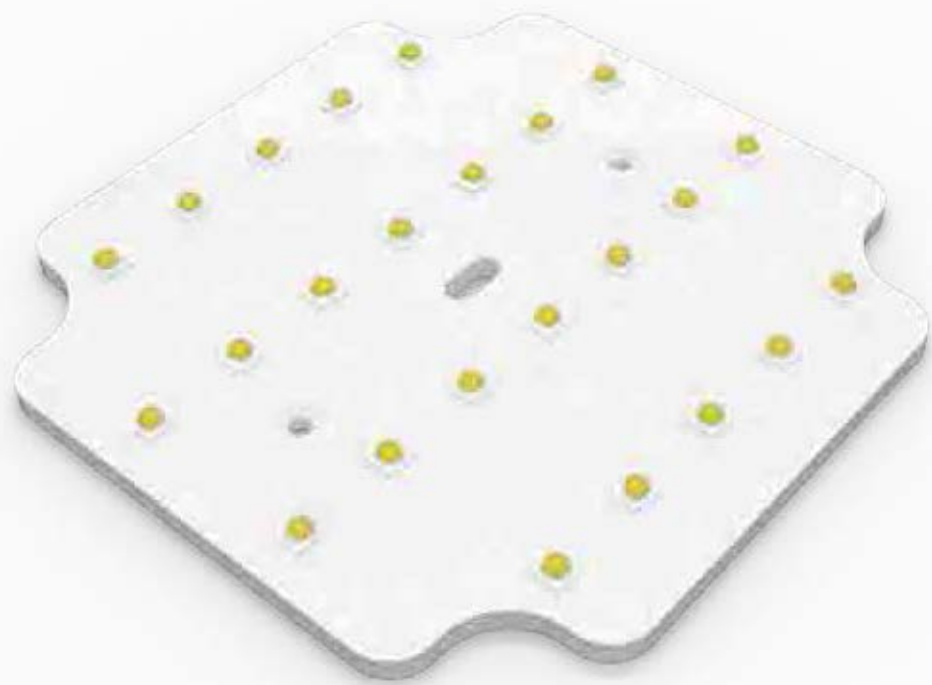
25 years life span

Double-sided solar panel

- Generate power from the dual sides
- Maximize power in limited space
- Energy generation increase **10%~15%**



CORE ADVANTAGES



CREE LED

Creating World Class Lighting



Superior outdoor LED



luminous efficiency reach up to **180lm/W(@25℃)**



Finished product luminous efficiency **over 150lm/W**

Combined with the outstanding heat dissipation design, the pure aluminum lamp base with sealed lens makes the lighting more effective and aids in prolonged life span of the LED.

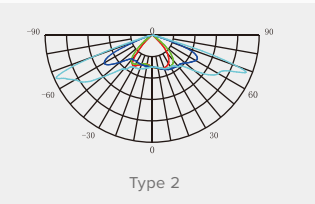


BAT Wing

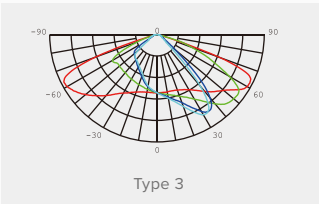
+

Spreadlight Lens

Brand new light distribution lens design, significantly improve the lighting effects, illumination and uniformity.
Designed especially to suit various light distribution types.



• Suit for common roads, e.g. country, factory, urban road and residential area.



• Suit for open places. e.g. Plaza, car park, construction site.

CORE ADVANTAGES

Ultra-long Life
LiFePO4 Li-ion Battery

Keep the System Working Endless

The Eco-friendly and safe LiFePO4 Li-ion battery improves the cyclic charge and discharge over 2000 times and has a life span of more than 8 years.

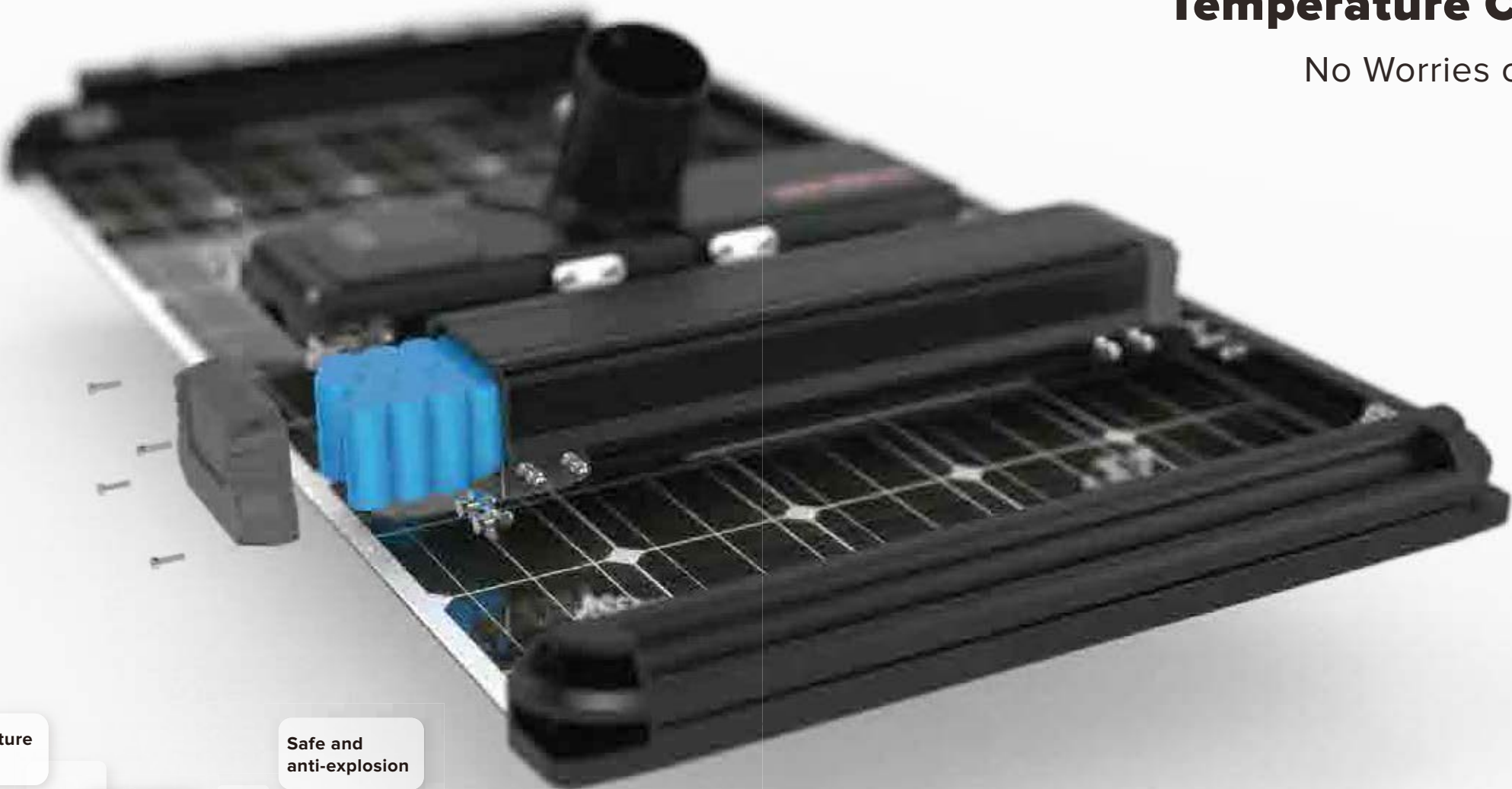


Intelligent Ultralow
Temperature Control System

No Worries on Freezing Weather



optional ultralow temperature
protect device and patent battery
heating technology
regular operation even in extreme
cold temperature (-40℃)



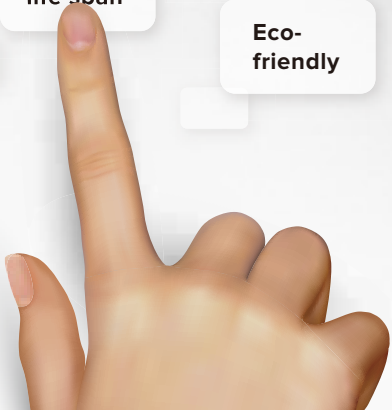
High temperature
resistance

Safe and
anti-explosion

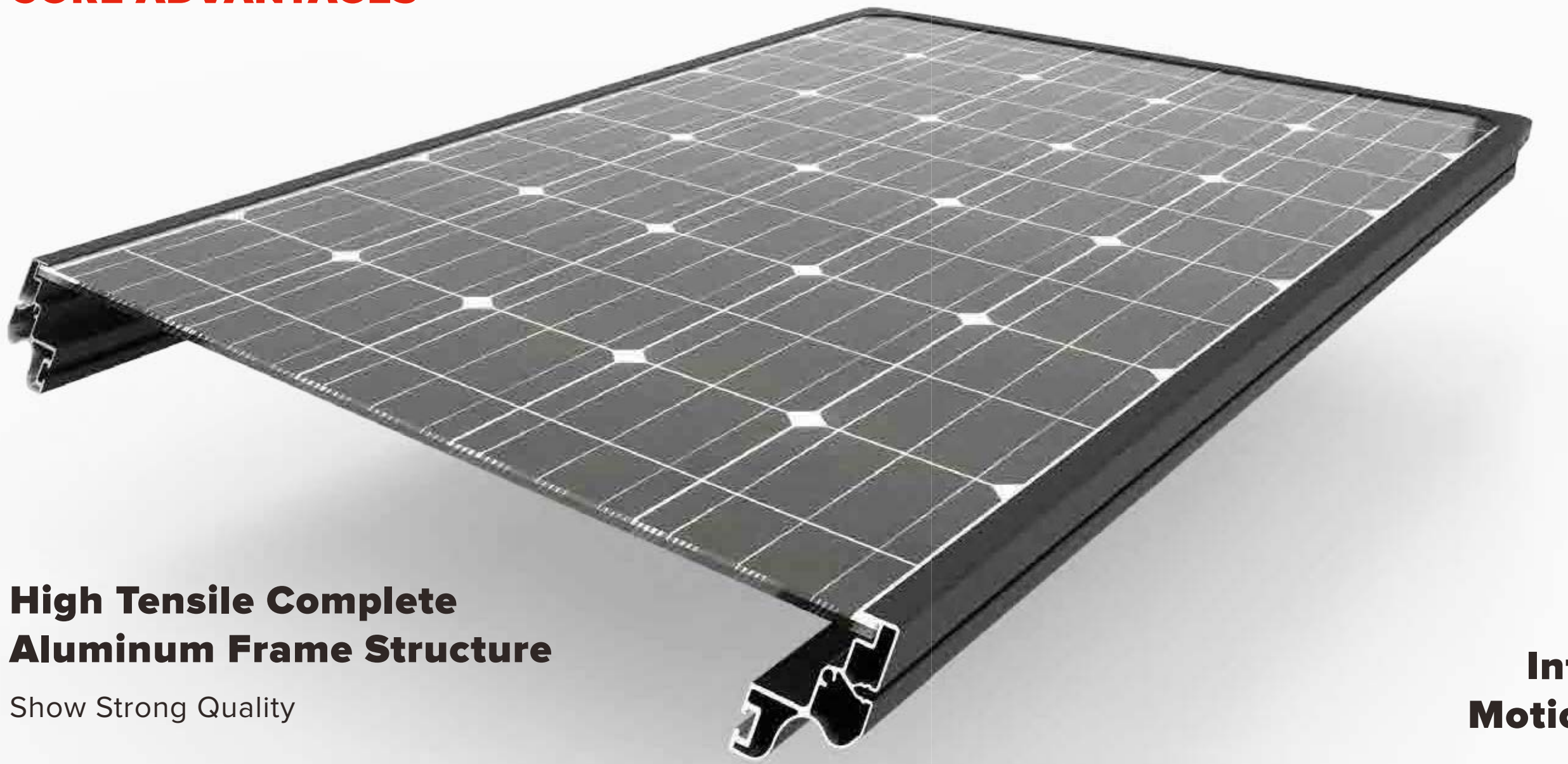
Long
life span

Light
weight

Eco-
friendly



CORE ADVANTAGES



High Tensile Complete Aluminum Frame Structure

Show Strong Quality



Complete Aluminum frame structure

Excellent heat dissipation, light weight, high strength, anti-corrosion.



IP65 Waterproof level

The 316 stainless steel fasteners provide extensive stability and reliability for all weathers.

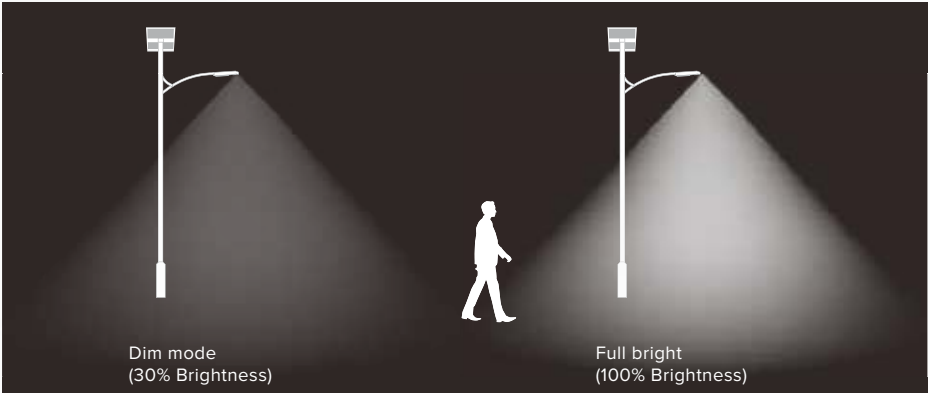


Tested and proven by practical cases

Tested and proven by practical cases.

Intelligent PIR Motion Detection

Built-in motion detection can automatically regular the light source from full bright to dim mode.



LEADSUN

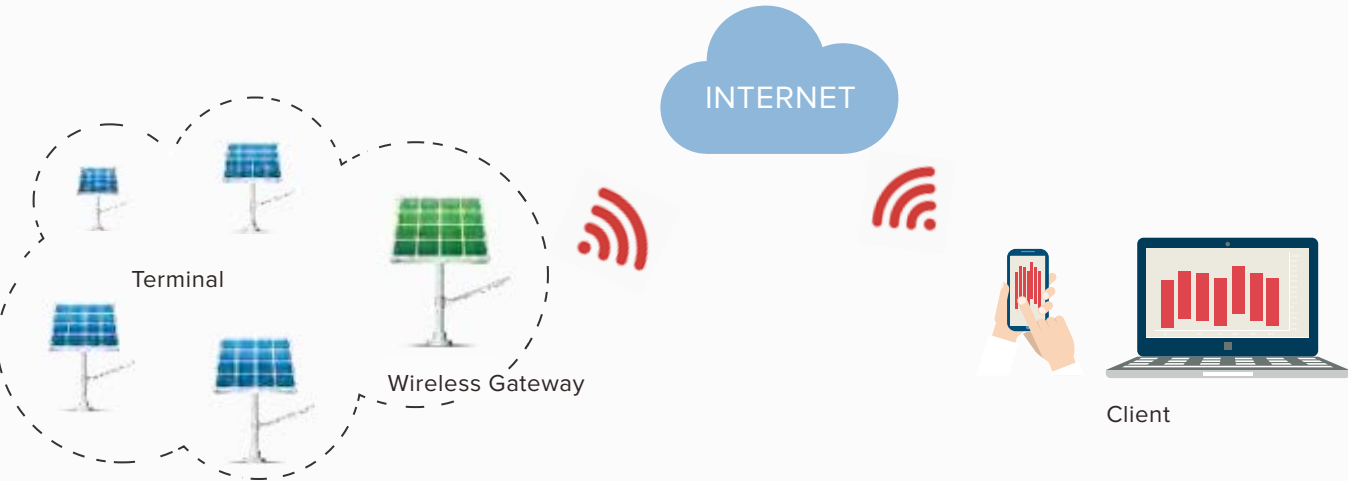
Wireless Control System



Intelligent Cloud Management

Online Remote Control

LIVESUN's Internet of things (IoT) enabled solar street light solution networks the solar street lights with the Terminal control client end, Lora terminal controller and GPRS-Lora gateway controller which enables to control the charge and discharge cycle on battery management, to monitor the solar panel and light operation modes, failure warnings, and supports the total maintenance which makes the overall project smarter, cost effective and easy to maintain.



Sketch Map of Wireless Control System

Features



Remotely Control the Switch and Lighting Adjustment

Control and configure the lights remotely from anywhere based on your seasonal requirement.



Free Switch on Working Mode

Remote free switch on the working mode to save energy consumption and prolong working time of the Light according to specific project requirements.



Failure Warning

Immediate warning and alarm system to the client if any detection of malfunctions occurs.



GPS MAP

With the GPS feature you can locate the lights on real time and get all the lighting status.



Cloud Operation Monitoring

Manage the voltage, power, energy consumption or any failures anywhere, everywhere all through the cloud management system.



Big Data Analysis

Remote monitoring information, real time inquiries and historical data inquiries, can be generated to a statement or graphical representation for easy data analysis.



Authority Management

Unified login password through system permission settings prevents unauthorized person to operate and keeps the system safer and reliable.



Bright Ideas For An Even Brighter Future!

AE Series

AE2

All In One

AE2 series product is a small -medium powered solar street light using LEADSUN's original All-In-One technology, integrates the solar panel, LED module, intelligent battery, and PIR sensor altogether.

The Intelligent integrated design makes the installation very easy and convenient without tedious cabling, trenching or welding.

Specifications

Power of LED light (W)	10	15	20
Power of solar panel (Wp)	30	45	45
Li-ion battery capacity (Wh)	154	192	230
PIR motion sensor	✓	✓	✓

Application

Small road, Country lane, Park road, Residential area,etc.



All in One

Split

Swivel

Split Type

AE2 series split type solar street light consists of an off-grid solar system and LED light head separately and satisfies the needs of complicated street lightings.

The users can adjust the direction of solar panel and led light head depends on actual requirements to reach the best energy utilization and lighting effects.

Specifications

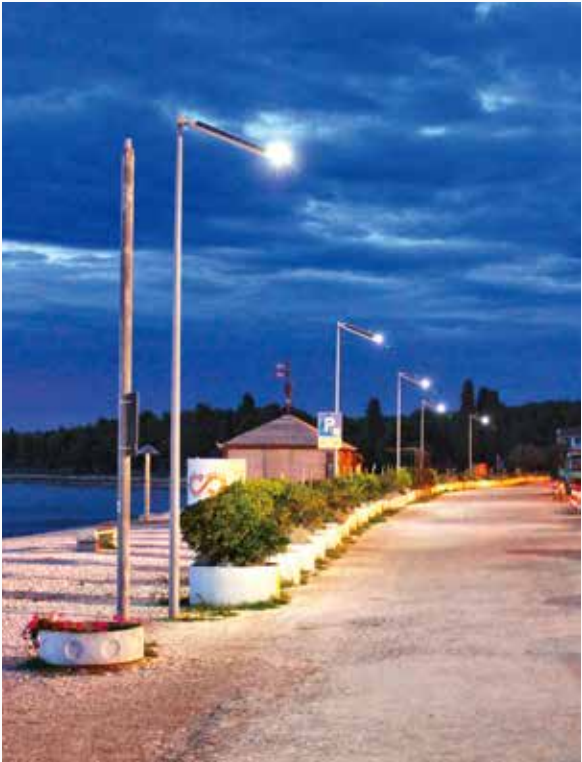
Power of LED light (W)	10	20
Power of solar panel (Wp)	30	45
Li-ion battery capacity (Wh)	154	230
PIR motion sensor	✓	✓

Swivel Type

AE2 series solar street light swivel type design includes bracket and universal shaft by which the user can set the direction of solar panel and light according to the location of the sun and the angle of lighting application.

Specifications

Power of LED light (W)	10	20
Power of solar panel (Wp)	30	45
Li-ion battery capacity (Wh)	154	230
PIR motion sensor	✓	✓



AE Series

AE3C

All in One

AE3C series product is a medium-high power solar street light using LEADSUN's patented All-In-One design, integrates all the components such as the solar panel, LED, battery and PIR sensor altogether.

The Intelligent integrated design is simple to install and convenient to maintain saving the labor cost and maintenance cost effectively.

Specifications

Power of LED light (W)	20	30	40
Power of solar panel (Wp)	80	80	80
Li-ion battery capacity (Wh)	230	346	460
PIR motion sensor	√	√	√

Application

Rural street, Industrial park, Scenic park, Construction area, Residential area, Small parking lot,etc.



Split Type

AE3C series split type solar street light consists of an off-grid solar system and LED light head separately and satisfies the needs of complicated street lightings.

The users can adjust the direction of solar panel and led light head depends on actual requirements to reach the best energy utilization and lighting effects.

Specifications

Power of LED light (W)	12	20	30
Power of solar panel (Wp)	80	80	80
Li-ion battery capacity (Wh)	230	346	460
PIR motion sensor	√	√	√

Swivel Type

AE3C series solar street light swivel type equips a precisely adjustable installation bracket and LED light module which has the advantages and functions of both straight type and split type where the user can set the direction of the street light according to the location of the sun and the angle of lighting application.

Specifications

Power of LED light (W)	20	30	40
Power of solar panel (Wp)	80	80	80
Li-ion battery capacity (Wh)	230	346	460
PIR motion sensor	√	√	√

ULTRON Series

AE5/6

ULTRON series is the LEADSUN's latest double-sided solar module which has a highly powerful light and claimed as a masterpiece from LEADSUN.

Leadsun integrates the most cutting edge technology with highly efficient mono crystalline PV module, powerful LiFePO4 batteries and smart controller all incorporated in a sleek design with modular LED lights to adapt multiple lighting angles to improve the installation, efficiency, experience and superior performance.

With corrosion resistant aluminum alloy cage, toughened stainless steel components, modular design, IP65 and IK08 rated covers for added strength, the Ultron has been engineered to handle whatever comes it's way and extremely durable.

Be it a rain, snow or a storm, AE5 Kong version has got the area covered.

Specifications

AE5

Power of LED light (W)	1×30	1×40	2×30
Power of solar panel (Wp)	130	180	180
Li-ion battery capacity (Wh)	737	1065	1310
PIR motion sensor	√	√	√

AE6

Power of LED light (W)	30	40	60
Power of solar panel (Wp)	130	180	180
Li-ion battery capacity (Wh)	737	1065	1310
PIR motion sensor	√	√	√



AE5

AE6

Application

Express way, Parking lot, Shopping plaza, Industrial park, Mine lot, etc.



TRINITY Series

Solar CCTV

The All-in-One Trinity series streamline an entire solar street light system into a single device, combining a sleek CCTV cam with smart features.

Equipped with high capacity battery, an efficient solar panel, HD recording, the Trinity series makes the environment smart, safe and secure. The Trinity series takes only a few minutes to install. Literally. Just plug it in and get secured with simple set up.

Suitable for places which require both lighting and video surveillance, the trinity series provides the best smart, ecofriendly and energy efficient, all in One Solution.



Integrated standard HD webcam

Monitor a clearer and brighter video and save data with in-built Memory card.

Integrated High luminous efficiency LED street light

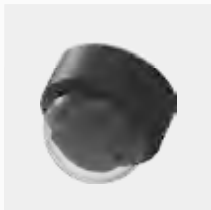
Unified power supply module

The Unified power supply system is intelligent and delivers the power supply as per the components requirements easy and simple which avoids complex cabling and connection.

Optional built-in 4G router transmits data seamlessly through wireless 4G network.

All powered by Solar

With the high efficient mono-crystalline solar panel and LiFePO4 Li-ion battery, the whole system is powered uninterruptedly and continuously without any external power.



Integrated Solar Panel, Camera, 4G router and LED Light

Application

Construction site, Park, Factory campus, Farm, Plaza, Residential area.



RHEA Series

LED Street Light

According to different application environment, the users can choose different modules for different functions and customize to match the multiple requirements.



Conventional on-grid electric supply LED street light (RHEA AC)



Backup Li-ion battery integrated on-grid electric supply street light (RHEA U)




High Capacity Li-ion battery integrated street light (RHEA UP)

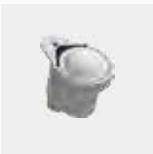


Cut-off light distribution designed street light (RHEA PLUS)


The RHEA Series Street light is a modular designed street light which the user can choose different modules accordingly to meet various application requirements.




It uses the latest CREE high luminous efficiency LED and special road lighting lens.




PIR motion sensor detection module.



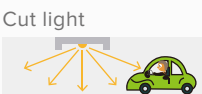
Premium quality LiFePO4 Li-ion battery module.



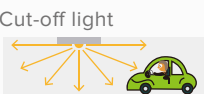
Cut-off light distribution lamp base, appropriate for some specific road lighting requirements.



High efficient electric supply conversion module.



Cut light



Cut-off light

RHEA Series Lighting



Specifications

RHEA AC

Power of LED light (W)	40	75	120	150
Input parameter	120-240VAC 50/60Hz	100-240VAC 50/60Hz	100-240VAC 50/60Hz	100-240VAC 50/60Hz

RHEA UP

Power of LED light (W)	10	20	30	40	50
Li-ion battery capacity (Wh)	205	246	369	573	655
PIR Motion Sensor	√	√	√	√	√

RHEA U

Power of LED light (W)	40	80	120
Li-ion battery capacity (Wh)	154	230	308
Input Voltage	36VDC, 90~305VAC, 40/60Hz		
PIR Motion Sensor	√	√	√

RHEA PLUS

Power of LED light (W)	30	40	60	80
PIR Motion Sensor	√	√	√	

Application

Highways, Plaza car park, Construction site, Residential area, Mine lot, Industrial park, etc.

