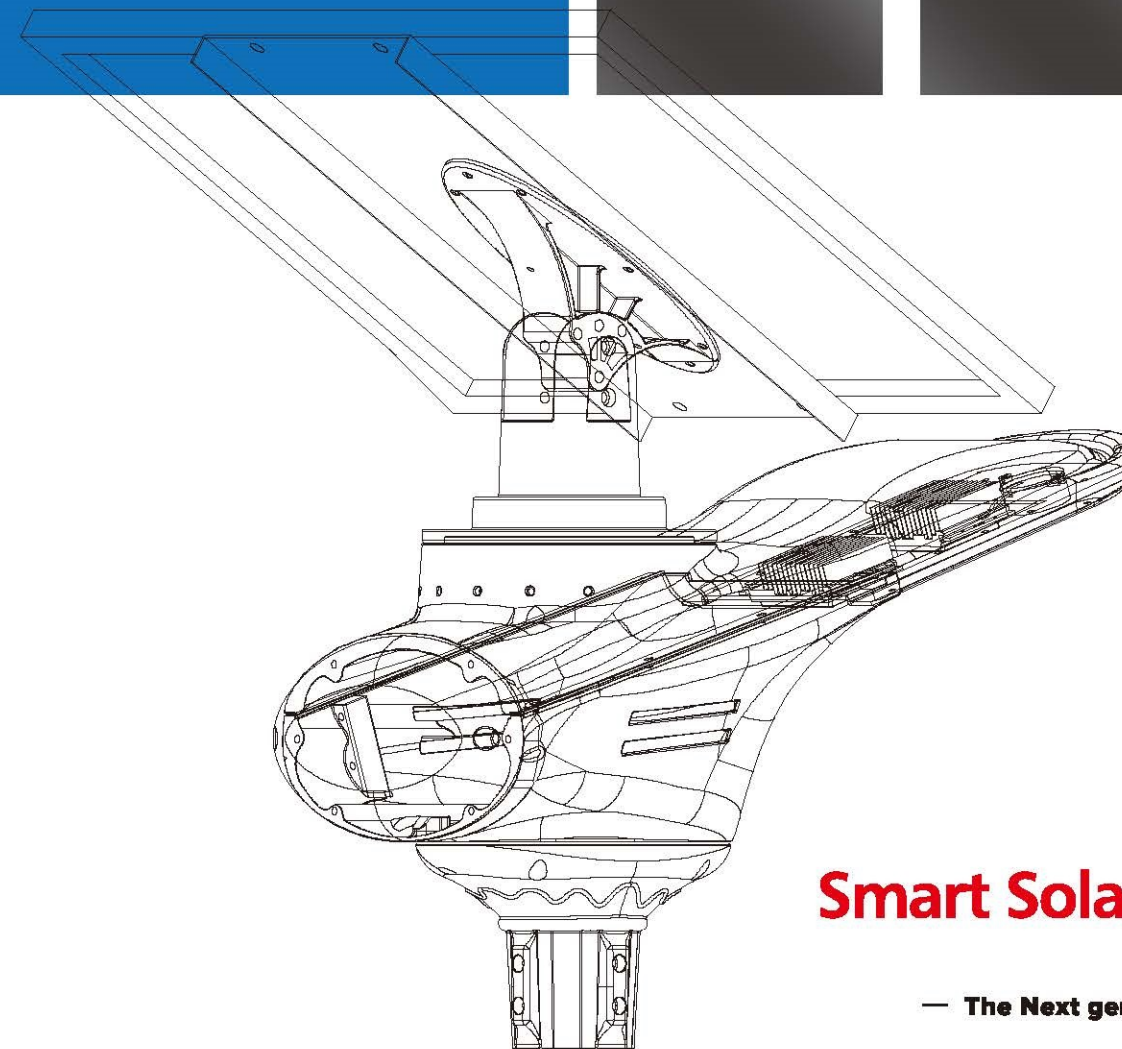




EVERYTHING UNDER THE SUN

PRODUCT CATALOGUE



Smart Solar Street Lights

— The Next generation of solar street lights

Harness the power of sunlight

Create smart solutions for smart cities and smart roads

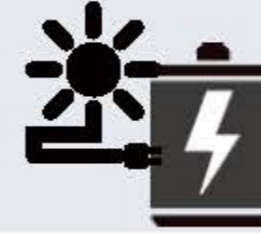


PATENT ALL IN ONE DESIGN

We put the solar panel, LED lamp, Li-Ion battery, intelligent charge controller, motion sensor, all into one unit, so each light is a complete stand-alone All-In-One solar system.

This creates a self-contained modular structure, there's no wiring, no digging, no debugging.

Easy to install with low cost installation and labor fee, also easy to transport and maintain.



BATTERY MANAGEMENT

uses new-generation lithium LFePO4 batteries instead of the traditional lead acid batteries, offers 4 times higher discharge depth, 5 times higher cycle life, 4 times more storage and power capacity and will not pollute the environment.

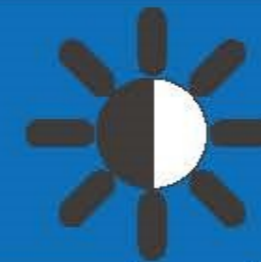
Our battery design uniquely features many 'small' lithium iron battery's packed into a 'dual' battery assembly that minimizes stress and heat during both discharging and charging cycles ensuring long term reliability.

Our lithium batteries are able to work in extreme heat of up to 65 degree Celsius & some products can even have an optional thermal heating module added to keep the lights operating in sub-freezing conditions as low as -40 degrees.

Bluesmart use an exclusive patented technology battery management program, enabling the lifespan of battery to last for over 5 years, greatly improving the ROI and helping to sustain the earth's resources.



360 ADJUSTABLE



LIGHT DISTRIBUTION

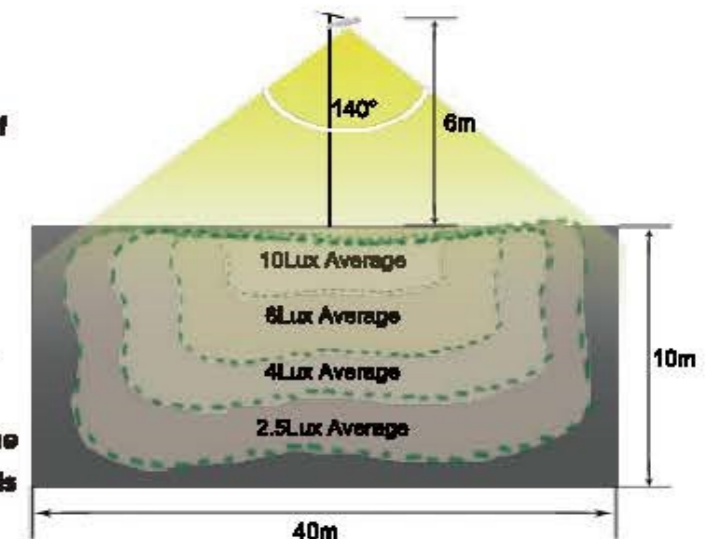
Bridgelux LED

We use Bridgelux specialized outdoor LEDs, with a patented multi-core high efficiency LED chip rating of 210 lm/w.

Wide Beam Angel Lens

A newly designed patented light distribution lens significantly improves the light's radiance and effectiveness.

Compared to the previous generation of products, the lighting area is expanded by 40%, lighting uniformity is increased by 200%.



360° rotating platform includes an adjustable bracket (5 angle) that can tilt and turn the solar panel so it faces towards the sun. This greatly increases efficiency.

Have the light shine where it is needed, while aiming the solar panel in the direction of the sun.



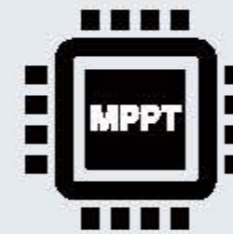
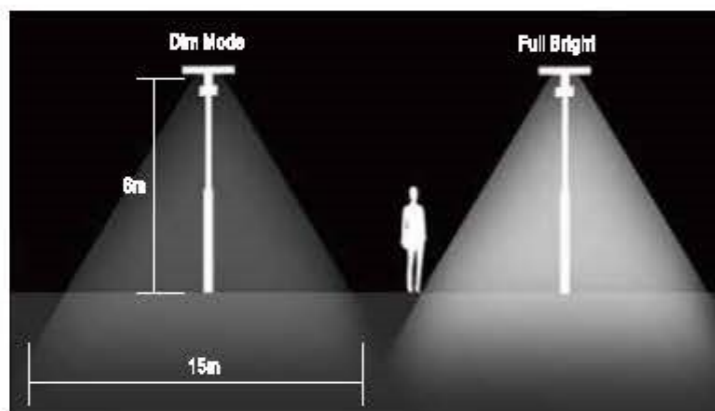
SMART MOTION MICROWAVE SENSOR

The fourth generation of sensing technology is Microwave Sensor Intelligent Adjustable Brightness, more energy-saving, more humanize. Microwave sensors are more accurate than Infra-red sensors in detecting human activity, and their operating range can reach further away from the light.

Fully automatic in operation: on at dark and off at dawn, battery recharges by day with the sun. Can last up to 5-6 nights on a full charge.

With the addition of the smart Microwave / PIR motion sensor, illumination levels will automatically be regulated from a 'dim-mode' to 'full-brightness' depending on whether the motion sensor detects movement within several meters of the integrated solar street light.

This smart feature preserves battery power as well as increases passive security in the vicinity of the street lights.



SMART CONTROL SYSTEM

MPPT Controller (Maximum Power Point Tracking)

Our solar lights are equipped with high efficiency Intelligent Power Regulation provided by MPPT technology built into the intelligent charge controller. This advanced technology automatically adjusts the output power to match variable weather and sunlight input conditions encountered by the solar panel. By maximizing peak performance continuously in this way, MPPT controllers raise charging efficiency 16-30% higher than previous generation PWM technology.

Intelligent Temperature Control

solar charge controllers also prevent charging and discharging of LI-Ion batteries in temperature extremes that are either too hot or too cold for proper battery operation, assisting in battery longevity and reliability.



Mono-Crystalline solar panel collects the sun's radiation & converts to D.C voltage



MPPT(Maximum Power Point Tracking)Controller



Lower power consumption during conversion phase



Increase battery charging efficiency



CITY ELECTRIC COMPLEMENTARY

Optional AC or DC Input capability is here! Swan and Fly Hawk solar lights can be equipped with the optional Electricity Hybrid Controller, allowing the LEDs to run on either battery power or 'mains' Grid Utility Power. The EHC will automatically switch to AC 'mains power' input when the battery power is insufficient, thereby preventing the battery from over discharging.

4 Working Modes to Choose From

Solar Lights offer versatile power management and performance with 4 different lighting modes controlled by a hand held remote.

Easily switch between different operating modes.



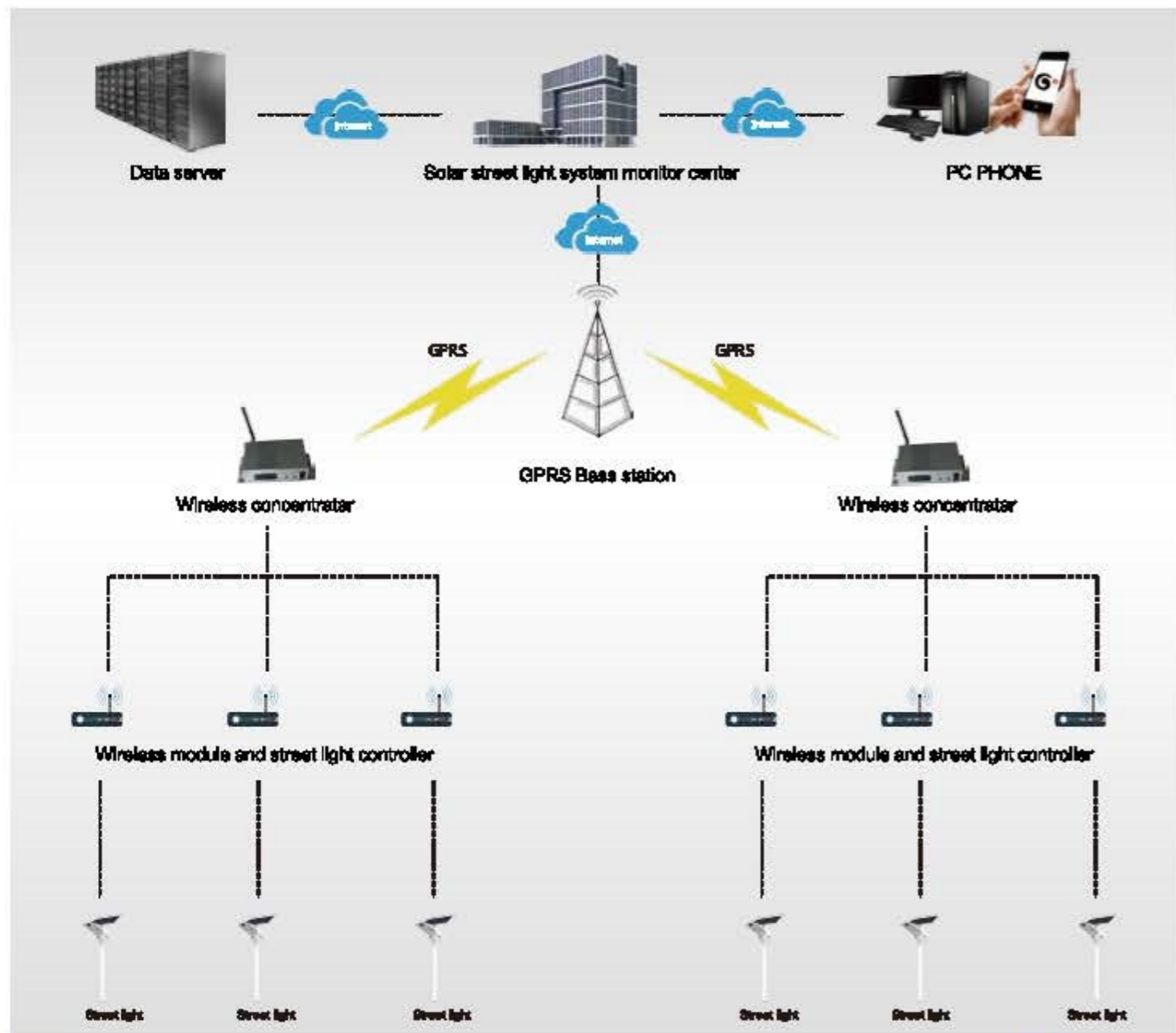


WIRELESS CONNECTIVITY

utilizes a world leading 'mesh' networking technology which allows all of the solar lights within a single installation to wirelessly communicate with each other via a daisy chain sequence over long distances. This provides real-time monitoring and management, intelligent and diversified early warning messages, and locates any faulted street lights accurately.

For a low monthly fee which includes a GPRS cellular network connection, we are able to remotely offer our customers historical and real time performance monitoring as well as the flexibility to change the lighting operating profiles or LED brightness of the solar lights.

AIR-LINK can also be accessed on-site via a laptop computer and a wireless communication device.



New Product

HAWK SERIES

The HAWK series flagship model, tailor made for government solar street lighting projects.

It features all of its components fully integrated within an attractive and compact design. It combines a highly efficient adjustable solar panel with a 'smart' and 'intelligent' charge controller to energize a high capacity lithium-ion battery that supplies power to the Super-Bright Bridgelux LEDs. Hawk Solar and Hawk Hybrid Solar are your best tools to seize the solar street light market.

Installation

Employs a side mount for flat surface wall mount brackets or horizontal pole arms.

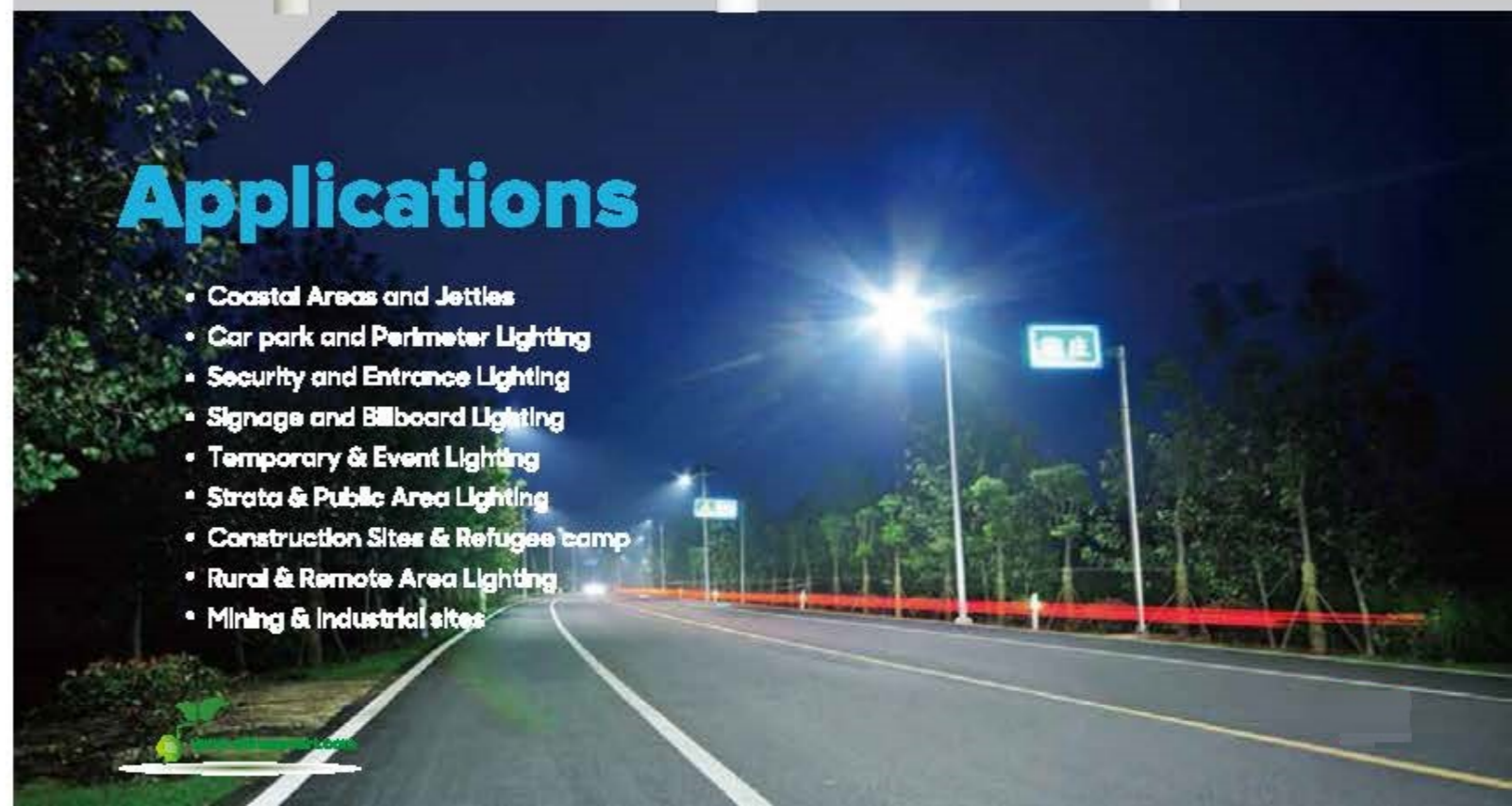
Optional Electricity Hybrid Controller

The Fly Hawk can automatically switch from 12 VDC Solar Power to 220 VAC Grid Utility Power whenever the battery may run too low.



Applications

- Coastal Areas and Jetties
- Car park and Perimeter Lighting
- Security and Entrance Lighting
- Signage and Billboard Lighting
- Temporary & Event Lighting
- Strata & Public Area Lighting
- Construction Sites & Refugee camp
- Rural & Remote Area Lighting
- Mining & Industrial sites



New Product

SWAN SERIES

The SWAN series 2017 newest design patented product, especially created for horizontal installation on single arm or double arm street poles.

Displaying a modern and elegant Swan appearance and possessing a fully adjustable solar panel, Swan series design principles elevate solar street lighting All-In-One standards to newer heights of beauty and performance. Reliability & Efficiency & Easy Installation are key components of high quality design features that will provide many years of outstanding performance and operational dependability.

Applications

- Coastal Areas and Jetties
- Car park and Perimeter Lighting
- Security and Entrance Lighting
- Signage and Billboard Lighting
- Temporary & Event Lighting
- Strata & Public Area Lighting
- Construction Sites & Refugee camp
- Rural & Remote Area Lighting
- Mining & Industrial sites



ANGEL EYE SERIES

The ANGEL EYE series unique all in one design with a swivel led light.

The angel eye series is unique model range of compact 'all in one' solar lights and has been designed to offer simple and extremely cost effective illumination for a wide range of small to medium sized applications. It's available in a traditional 'All In One' design as well as a swivel type system where the solar panel and light head can be adjusted to its optimized position to provide greater lighting distribution.

INSTALLATION

Easily installs on the top of pole without any drilling or wiring of other components.

Swivel Type

With its adjustable light head and solar panel, the 'Angel eye' Swivel is the newest model in the all in one solar street light range.



Applications

- Coastal Areas and Jetties
- Car park and Perimeter Lighting
- Security and Entrance Lighting
- Signage and Billboard Lighting
- Temporary & Event Lighting
- Strata & Public Area Lighting
- Construction Sites & Refugee camp
- Rural & Remote Area Lighting
- Mining & Industrial sites

INSTALLATION

Employs a side mount for flat surface wall mount.

SIZE

Available from 15w to 80w, configuration can be customized.



FLAT SERIES

The FLAT series is high powered 'All In One' solar lighting module with a sleek and modern appearance that easily attaches to the top of a round pole without need for any further wiring or components; It integrates high capacity Lithium Iron battery's along with 'high output' LED light sources under solar engine that is perfect for illuminating open space areas.

Applications

- Coastal Areas and Jetties
- Car park and Perimeter Lighting
- Security and Entrance Lighting
- Signage and Billboard Lighting
- Temporary & Event Lighting
- Strata & Public Area Lighting
- Construction Sites & Refugee camp
- Rural & Remote Area Lighting
- Mining & Industrial sites

SIZES

Available in sizes from 25w to 200w solar engines with LED outputs ranging from 12w to 120w.

INSTALLATION

Easily installs on the top of pole without any drilling or wiring of other components.



Solar Garden light

MOON LIGHT SERIES

Innovative Solar Powered Garden Light. Perfect and hassle free solutions, to keep your streets, bright and gardens lit and beautiful. 3 patterns can be choose. 100% solar powered, no electricity bills, Easy to use because no cords or plugs are needed. Charges in 6 to 8 hours and lasts 3-5 rainy days comes on at dark, off at dawn, illuminates to very bright at movement and then back to normal power after movement ceases. Includes a remote control for convenient operation.

Applications

- Garden & Village square
- Public areas & Parks & campuses
- Residential & Community Center
- Urban trunk road & Slow lane
- Bike trails & Tourist attraction
- City stadium & Office district
- Rural & Remote Area Lighting
- Housing Estates & Business Parks
- Retirement Villages & Camping Lighting



Solar Garden light

PEACH LIGHT SERIES

solar-powered garden street light, with fashionable peach-shaped led lamp, operated by remote control. this solar peach shaped light can be used for a variety of outdoor lighting applications, as long as it can receive direct sunshine, perfect for Public areas & Parks & Garden, Residential Community light center, Parking lot, Streets, New rural road construction ect.

Charges in 6-8 hours and lasts all night. Easily installed on a wall or your own post or pole within 3mins.

Applications

- Garden & Village square
- Public areas & Parks & campuses
- Residential & Community Center
- Urban trunk road & Slow lane
- Bike trails & Tourist attraction
- City stadium & Office district
- Rural & Remote Area Lighting
- Housing Estates & Business Parks
- Retirement Villages & Camping Lighting



Solar Garden light

APPLE LIGHT SERIES

solar garden lamp, Ikea style, white, apple-shaped, wall mounting and mounting on pole all support.

This patented, solar-powered, integrated lighting system comes prewired. All that is required is mounting it on a pole or building and aiming the solar panels toward the sun. One day of sunlight will give you light for up to 3 days depending on how long you want the light on each night.

Applications

- Garden & Village square
- Public areas & Parks & campuses
- Residential & Community Center
- Urban trunk road & Slow lane
- Bike trails & Tourist attraction
- City stadium & Office district
- Rural & Remote Area Lighting
- Housing Estates & Business Parks
- Retirement Villages & Camping Lighting

