ALL IN ONE SOLAR STREET LIGHT

Technical Data Sheet
Integrated All in one
A compact lighting solution integrating Solar panels, LED light and Lithium battery with PIR motion sensor option.

**WHY SUNMASTER**

**FREE CONSULTANCY SERVICE**
- Luminaire technical evaluations
- 3D Simulations and Lighting Visualizations,
- Energy saving calculations

**CUSTOMIZED MANUFACTURING**
- Custom product designs and execution drawings
- Manufacture custom solutions in-line with any given brief

**INSTALLATION SUPPORT**
- Provide training, assistance and supervision
- Support testing and commissioning

**Benefits**

**Lower Operation Cost:** It is less expensive to operate a solar powered street light than a traditional street light.

**Compact Design:** Our design and technology implementation have been driven by our desire to eliminate the need for bulky external battery boxes and external solar panels and achieve All in One Solar Powered Street Light.

**Reduced Damage/Theft:** By locating directly on the light fixture and placing the battery within, the risk of damage, theft or tampering is greatly reduced. There are no wires in the street pole, which means that the wire itself (which exists in regular street lights) can’t be stolen and sold for scrap.

**Ruggedized Technology:** Require less maintenance and reduced parts replacement due to initially incorporating higher quality components.

**Insect Swarms:** The solar powered street light uses LED lighting which does not produce Infrared light, and therefore will not attract insects.

**Improved Safety:** The solar powered street light does not require connection to an electrical grid. It is safer and easier to install. In the event of a power outage, the light remains on. This reduces the chance of accidents and the constant light deters theft/vandalism.

**Anywhere/anytime:** The solar powered street light can be used in any location. Since no electrical grid is required, it can be installed on buildings, in parking lots, in remote locations simply by hanging it on a pole.

**Faster Installation:** Since you don’t need to trench power lines to the pole, run wires up the pole, connect wires to an electrical grid, or hard wire the street light, the installation is significantly faster. In fact, it is so easy, it can be installed on the pole before it’s erected, and thereby reducing a step completely from the process.

**LED MODULES**
Exquisite design with powerful thermal output, with more reliable waterproof performance.

The new integrated solar streetlight from SunMaster will guarantee an efficiency up to 180 Lm/W. In addition, it has great stability, and long life.
Photometric performance depends on the solar environment of location and specified operating profile. Contact a SunMaster representative for exact lumen output and specifications for your application.
Compact Design

No need wire connection, no need trenching, save installation time.

**LIGHTING THE WAY**

Built specifically to illuminate a wide range of applications, is the world's most versatile and compact LED solar lighting system. Its clever design and slim line construction incorporates the latest solar power, and LED technology, providing many years of consistent, performance and operational reliability.

**BUILT TO LAST**

Has been designed to withstand the harshest and most extreme environments has to offer; From blistering heat to driving rain, hail and sub-zero temperatures. Whatever the environment is, SunMaster rugged.

Construction is up for the challenge. Its internal components offer IP65 weather protection and its external components are built with marine grade aluminium and stainless steel fixings.

**UNIQUE PROPERTIES**

- All-In-One solar module = Easy Installation Plug & Play wiring = Fast installation
- Lithium battery technology offers up to 4 times more discharge capacity over Lead Acid types and 3 times more cycle life
- Tamper and Theft proof design
- Automated LED output options for greater battery autonomy
- Customer replacement components
Motion Sensor (Option)

Built-in passive infrared motion sensor that automatically regulates the LED light output from full brightness to a lower level depending upon the detection of movement around the light.

All in one series has a built-in motion detection security feature that automatically regulates the LED light output from full brightness to a lower level depending upon the detection of movement around the light.

This fluctuation of lighting intensity preserves battery power and also serves to increase community security by deterring unsociable activity late at night and early in the morning where these lights are installed.

PIR Detection Area
Multiple Light Distribution Options

SunMaster Street lights fit with a wide range of applications: highway, roadway, avenue, walking path or parking lot.

SunMaster follows the North American IESNA standard in providing the optional lens width Type I, Type II and Type III. Type I is suitable for walking path with 1 lane, Type II is for 2 lanes and Type III is for even more wider road. SunMaster selects the most suitable lens for its customers according to the detailed parameters project by project.

**TYPE I**
The Type I lens have beam angle of 50°x160° degrees.
In the IESNA Standard, The Type I distribution is great for lighting walkways, paths and sidewalks. It is generally applicable to where the mounting height is approximately equal to the roadway width.

**TYPE II**
The Type II lens have beam angle of 65°x155° degrees.
In the IESNA Standard, the Type II distribution is used for wide walkways, on ramps and entrance roadways, as well as other long, narrow lighting. It is generally applicable to where the width of the roadway does not exceed 1.75 times the designed mounting height.

**TYPE III**
The Type III lens have beam angle of 80°x160° degrees.
In the IESNA Standard, the Type III distribution is meant for roadway lighting, general parking areas and other areas where a larger area of lighting is required. This distribution is intended for luminaires mounted at or near the side of medium width roadways or areas, where the width of the roadway or area does not exceed 2.75 times the mounting height.
Cloud-based Remote Monitoring System (Option)

Flexible light on/off, dimming profiles, motion detection that can be done from the cloud allows changes to the lights as needed without a site visit.

Smart Solar Street Light
Remote Management System 4G+Zigbee Network

**REMOTELY CONTROL THE SWITCH AND LIGHTING ADJUSTMENT**
Control and configure
The lights remotely from
Any where based on your
Seasonal requirement.

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

**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.

**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.

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

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

SUNMASTER provides a total solution for intelligence street lighting system.

SUNMASTER street light intelligence system is made up by software, concentrator, terminal controller. The concentrator controller is installed in the
distribution cabinet, the terminal controller is installed in the lighting terminal. It proceeds with communication via GPRS/CDMA/WCDMA wireless network or
cable network & monitor center and proceeds with communication via ZIGBEE/PLC.

Concentrator controller can control each terminal controller via receiving, executing, forwarding PC management software , which can control each lamp’s
switching on /off or dimming ,then save electric energy. It can also monitor the lamps’ electric energy to achieve failure lamps function. Concentrator
controller can built-in DO to achieve street light loop control, it can connect with other equipment to collect local illumination, temperature and other
information, feedback to PC management software and achieve to monitor the current information.
Easy Installation
Completion in approximately 1 hour each unit. This minimizes downtime which saves you money.

Make the solar panel face south while installing. Meanwhile, you can adjust the angle between the lamp head and level (as follow), you’d better reconcile the lamp head with local latitude.

The second installation method, as followed:

(All in one)
Solar Street light

Fuse

Fixed Tai | Stock

Installation notes (instructions are supplied with each unit)
- Install fuse if present before use (remove any film under fuse)
- Tool supplied to tighten security bolts provided
- Face solar panel as much towards the north as possible to maximize sun exposure (and therefore battery charge)

NB: As with all solar products, performance is wholly depended upon the hours of direct sunlight and the orientation of the solar panel.

Applications:
- Car parks, paths and laneways
- Private roads, gates and entrances

Safety and security:
- Playgrounds, courtyards
- Entrances, exits and muster areas
- Outside storage areas, perimeter lighting remote areas
- Where wiring is not economical or practical

Your SunMaster Partner:

SunMaster Solar Lighting Co., Ltd
No.2735 Dongyang Street, Jinhua, Zhejiang, China
info@chinasunmaster.com +86-13967961680

Italy International Sales Department
Via Angelo Moro, 61, 20097 San Donato Milanese MI, Italy
export@chinasunmaster.com +39 02.37.92.02.88