SOLAR LED STREET LIGHT ALL IN ONE

L IN ONE

SERIES

P TO 180LM/W 20-100W









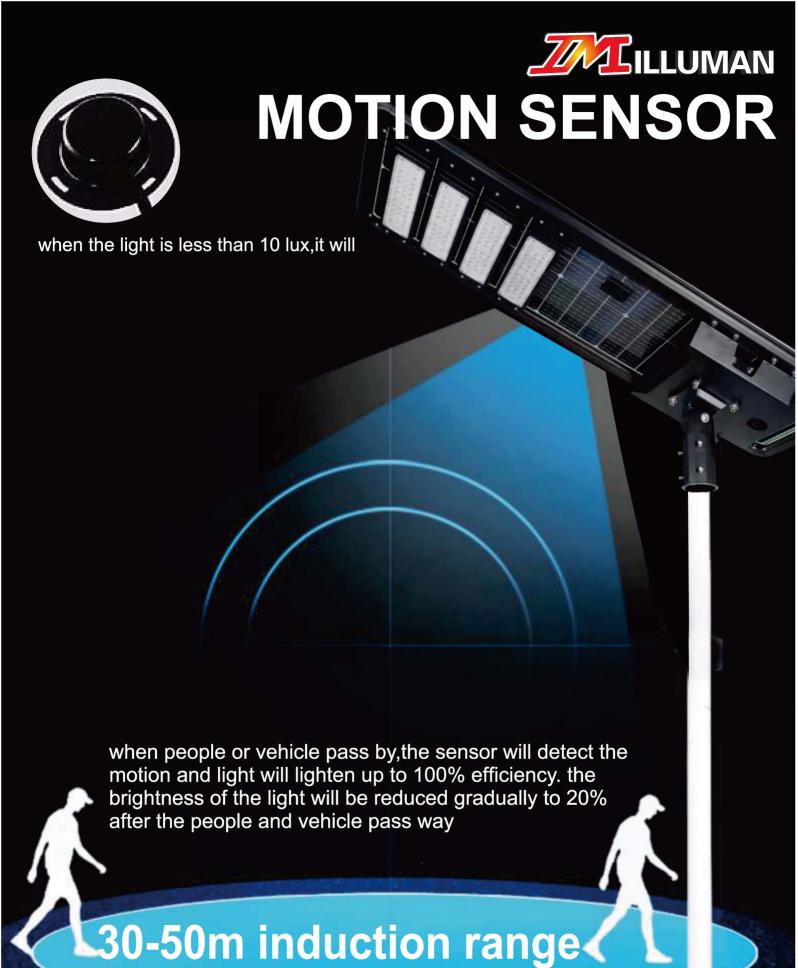
































ALL IN ONE SOLAR STREET LIGHT

All in One Solar Street Light is green energy saving product. It transfers solar radiation into electricity and reserves it into the battery in daytime.

All in one solar LED street light is a new kind of solar LED street light for the road lighting. Its solar panel, LED lamp, controller, Battery are all integrated inside the lamp then it is very easy for the installation. In addition, there is a brightness sensor inside the lamp. If the sunshine brightness is enough, the solar panel can absorb the solar energy for battery charging, while if the brightness is not enough, the LED lamp will be on automatically and the battery will supply the energy to the lamp for area illumination. What's more, the lamp can be customized with motion sensor or time control mode. Its brightness standard can be adjusted by movement or time schedule. It has solved the problem of complex installation and expensive transportation compared with tradition solar LED street light.

Mounting height: 6-9m

Space between light: 30-50m















FEATURES

- 1. Solar panel, led, battery & controller all in one design.
- 2. Easy installation within several minutes, without cables.
- 3. Automatically turn on and off.
- 4. High brightness led 180lm/w.
- 5. High efficient sunpower monocrystalline solar panel.
- 6. High charging efficiency MPPT controller.
- 7. Microwave motion sensor and time control available.
- 8. No Hq(Mercury), Pb(Lead) or other hazardous materials, no radiation, safe to human body.
- 9. Anti storm.
- 10. Alluminum alloy anti rust.
- 11. Anti thunder.
- 12. Bird scarer option.
- 13. 3 years standard warranty & 5 years optional warranty.

SOLAR CONTROL

Switch off the light charging mode during the day, and turn on the light mode automatically at night to free your hands



















3030 HIGH EFFICIENCY LED CHIP

high luminous efficiency, low energy consumption, low heat, life span of 50,000 hours



LED BRAND: PHILIPS DLUMILEDS



MPPT Controller

Lithium Iron Phosphate (LiFePO4) Battery



aluminum alloy















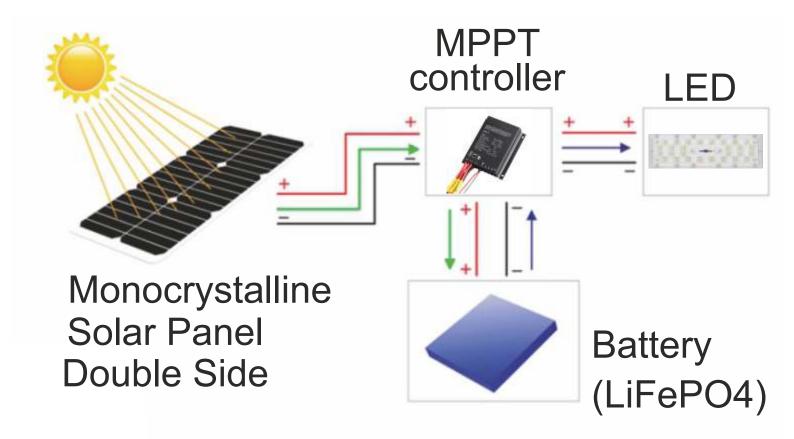








WORKING WAY



Where there is light radiation, photovoltaic modules are converted to electric energy by solar radiation, and intelligent controller is used to charge electric energy into Lithium Iron Phosphate(LiFePO4) battery. At the same time, the intelligent controller protects the overcharge and over discharge of the battery. The lighting switch and adjust lighting intelligent control, without manual operation.













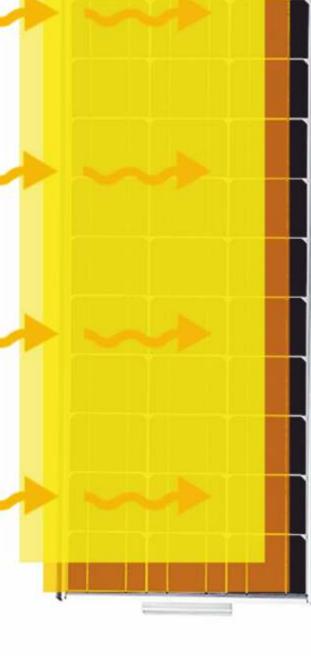


MONOCRYSTALLINE SOLAR PANEL



Monocrystalline solar panel **Double Side** Charge

- The stability is strong, the photoelectric conversion rate is better than polysilicon
- Tempered glass, polished surface
- · Laminated board, strong performance
- · 25 years lifespan

















MPPT Controller

Features

Professional design to promote system reliability

- Using international well-know brand semiconductor device such as IR.TI.ST.ON.NXP and so on.
- Using industrial MCU total digital technology, without any adjustable resistance, strong anti-interference ability, no aging and drift.
- High LED driving and charging efficiency, significantly reduce the product temperature.
- IP68 protection degree without any buttons, further improve the waterproof reliability.

High MPPT efficiency

MPPT efficiency≥99%, System efficiency is up to 98%, improve the system efficiency & reduces system costs.

High Transfer efficiency

- Charging efficiency up to 98%.
- LED constant current drive efficiency up to 97.4%

Minimal stand-by power consumption

The current consumption \leq 10mA after controller enters sleep mode.

Intelligent battery management

- It is three phase time charge battery, which contains MPPT charge, constant voltage charge and float charge, which helps to extend the life time of battery.
- Significantly extends the battery lifetime up to 50% base on intelligent temperature compensation charge and discharge management

Intelligent LED drive management

- Light control function, automatic lights LED in the dark, turn off automatically at dawn.
- Five time control.
- Dimming function, control to output different power in different typical time.
- Ensure battery working in the mode ofl ight charge and light discharge base on intelligent LED drive management, much extend the life time of battery, so guarantee the lights on all the night.

Flexible parameter set

- Infrared wireless communications, connecting with computer.
- Excellent man-machine interface, convenient operation.
- Infrared wireless communications, connecting with a handheld remote control for easy installation.

Perfect protect function

- Battery reverse connection protection.
- The solar panel reverse connection protection.
- To prevent the battery discharge to the solar panel at night.
- Battery low voltage disconnect protection.
- Battery reconnect voltage protection.
- The LED output short and open circuit protection.

















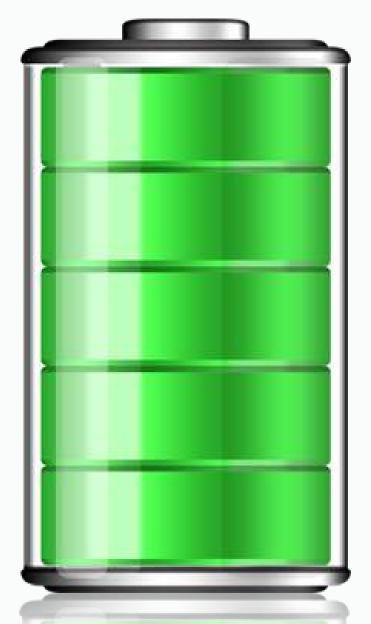




Grade A LiFePO4

(Lithium Iron Phosphate Battery)

Utilized the high capacity and high efficiency lithium iron phosphate (LifePO4) batteries, compared to traditional lead acid batteries, offers 4 times more higher discharge depth, 3 times higher cycle life, more storage and power capacity and will not pollute the environment. Lithium Iron batteries are also able to discharge to an incredible 90% without any damage to them before the under voltage battery protection cuts out any further operation. The other Ternary lithium battery, cannot bear large current discharge, bad performance even exploding in high temperature environment, life cycles is just 500-1000 times



High capacity

More safe

No pollution and stable

Long lifetime, ≥2000 times charging & discharging

Constant discharge voltage

High temperature resistance









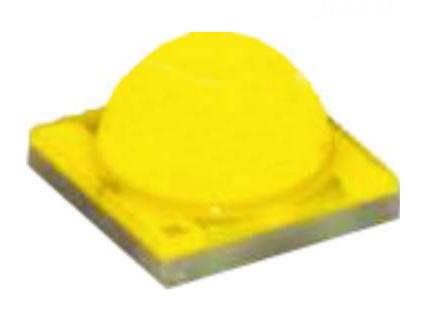




LED Chip







By choosing the luxeon LED chips, single lumen value at 180Lm/W, with the aluminium lamp base and sealed lens, with its excellent heat dissipation, it is as if the LED chip has been placed in a sealed unit. Thus it maintains high brightness levels with very little fading. The sealed lenses are made of strong UV protected PC and are aging and shock resistant; The well optimized light distribution, makes for a more uniform and wider lighting area.

IP 65























LED Source



Provide excellent lumen output, the best stability and excellent visual perception. (Cree, Nichia, Osram, Bridgelux, Samsung & etc. is optional)

LED MODULE

















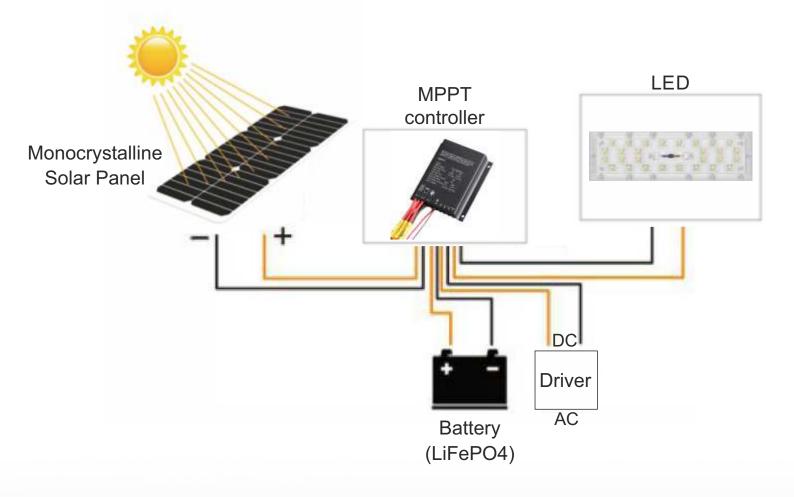




OPTIONAL FUNCTION *AC/DC Hybrid Solar Street Light Controller System Solution

Application Range:

AC/DC hybrid solar street light controller system solution is widely used in urban and rural road, highways, water dikes, bridges, parks, industrial areas, city squares, residential areas and other places of lighting. The system is mainly made of PV components.AC/DC hybrid solar street light controller, Battery, Switching power supply and LED ect.AC/DC hybrid solar street light controller system solution is the latest solution to solve the outdoor lighting problem with solar charging and AC/DC hybrid method. By adopting the technology of automatically switching the output of the battery and AC hybrid, the problem of excessive discharge of the battery and the lack of street light due to the continuous rainy days is solved. True constant current rather than current-limiting control ensures smooth and stable output current, effectively reducing LED light attenuation and extending LED service life. And you can easily and quickly adjust various parameters in the solar street light controller by using the assorted Infrared remote control.



















PLUG-IN DESIGN PROTECTION LEVEL IP65



All components are made of water proofing, including the cable connectors, to make sure the whole solar street light to be IP65. All the wires of the whole lamp are male and female plug-in connectors. The color is designed to be waterproof and has the functions of preventing errors.















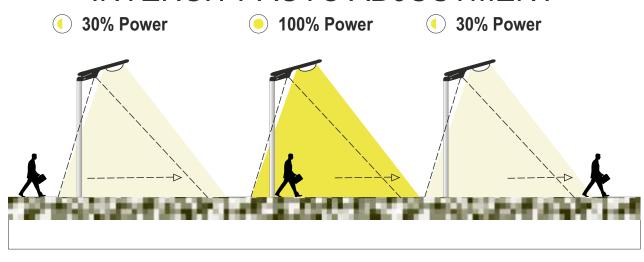


MICROWAVE MOTION SENSOR

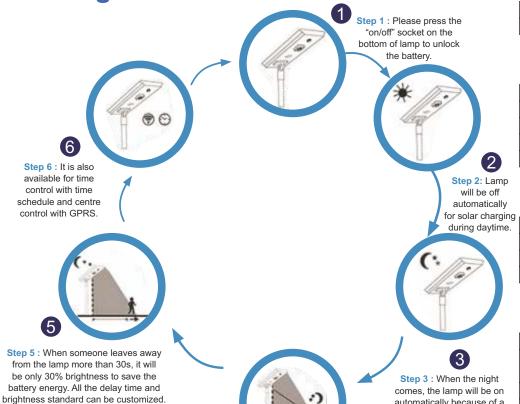
MOTION SENSOR:

It comes with motion detection system that automatically regular the light source from full bright(100%) to dim mode (30%) to increase battery autonomy.

INTENSITY AUTO ADJUSTMENT





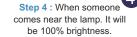


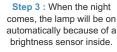
OPTION A	
12 HOURS	100%

OPTION B	
2 HOURS	100%
2 HOURS	80%
2 HOURS	60%
6 HOURS	40%

OPTION C		
	SOMEBODY UNDER	NOBODY UNDER
	THE LIGHT	THE LIGHT
12 HOURS	100%	30%

OPTION D		
	SOMEBODY UNDER	NOBODY UNDER
	THE LIGHT	THE LIGHT
2 HOURS	100%	30%
2 HOURS	80%	20%
2 HOURS	60%	10%
6 HOURS	40%	10%

























Strong Waterproof

closed design, no fear of soaking, waterproof and dustproof, no dripping



Storm protection



Anti-thunder



Snow protection

Installation structure:

Double mounting structure ensures that the product should not fall off, increasing the safety performance of the product in the use of the environment **ILLUMAN**

















































SPECIFICATIONS

MOTION SENSOR

LED	
LED CHIP BRAND	PHILIPS DUMILEDS
NOMINAL LED POWER	20-100W
NOMINAL LED VOLTAGE	30V
MODULES	1-4 ROW
CHIP TYPE	3030
No of LEDS IN LUMINAIRE	50-200PCS LED
LUMINOUS EFFICIENCY	180 LUMENS/WATT
LUMINOUS FLUX	3600-18000 LUMENS
COLOR TEMPERATURE (CCT)	2,800-6,500K
CRI	RA>80
BEAM ANGLE	70*140
LIGHT DISTRIBUTION	BAT-WING
LED LIFESPAN	≥50,000 HOURS

SOLAR PANEL	
TYPE OF PANEL	MONOCRYSTALLINE SILICON
VOLTS	18V
WATTS PEAK	45-140Wp
SOLAR PANEL SIZE	As per need
CHARGING EFFICIENCY	>27%
SOLAR PANEL LIFESPAN	25 YEARS

BATTERY	
BETTERY TYPE	LiFePO4-LITHIUM IRON PHOSPHATE
VOLTS	12.8V
AH	20-50AH
WATTS	250-600W
BATTERY CELL TYPE	32700 CELL 3,2V/6000mah
BATTERY CONNECTION	4S7P
CHARGING TIME	6-8 HOURS
LIFESPAN	2,000 CYCLES
WARRANTY	3 YEARS

WORKING ENVIROMENT	
OPERATING TEMPERATURE	-20°C TO 60°C
WATERPROOF GRADE	IP65
WIND RESISTANCE	65M/S

CONTROLLER	
TYPE	MPPT
BATTERY VOLRTAGE	12V
MAX SOLAR POWER	140W
SOLAR Vmp	17V-48V
MAX SOLAR Voc	55V
MAX CHARGING CURRENT	8A
MAX LOAD POWER	100W
LED VOLTAGE	15V-55V

ALL IN ONE HOUSE	
MATERIAL	ALLUMINIUM ALLOY
COLOR	GREY

MICROWAVE

INSTALLING PARAMETERS	
INSTALLATION	POLE/WALL
POLE DIAMETER	Ø60mm
RECOMENDED MOUNTING HEIGHT	5-12 METERS
RECOMENDED POLE DISTANCE	30 METERS

COMPLETE PRODUCT WARRANTY 3 Y	'EARS
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