

MoonLight Solar Light

Cmoonlight Solar patent all in one solar

Detailed Spec of Integrated Solar Street Light (200w)



Patent product **CE** **RoHS** **FC** **CCC** IP65

Advantage:

- Wireless application-Integrated solar panel, LED, lithium battery, micro-controller and other accessories into one system, simple and stylish.
- Micro-computer controlled-Combine light control system and time control system perfectly, ensure whole system more energy-efficient.
- Easy installation-No power required, no cables required, easy installation in 5 minutes.
- Good heat dissipation-Solar panel, battery and light body do not connect directly, they will not conduct heat to each other, to support good heat dissipation and long lifetime.
- Extreme light-Light efficiency reach 160lm/w, at same illumination, lower watt available.
- Lithium battery-Adopt lithium battery to replace traditional gel battery, longer lifetime.
- Modular design-All components are modular design and in standardized production. Battery can be easily replaced if needed.
- Low cost-Compared with traditional solar led lights, much lower cost, easy to transport.

Feature:

- Beautiful and modern appearance, simple and fashionable.
- Use of solar green energy, environment friendly, saving more.
- Low voltage driving, meet the Europe standard of CE RoHS FCC.
- No Hg, Pb or other hazardous materials, no radiation, human safety.
- IP65 grade, TVS lightning protection.
- Long lifetime of whole lamp, low maintenance costs.

Details:

Sunpower Solar Panel



- 19% photoelectric conversion efficiency
- Tempered glass cover
- 20-25 years lifetime

High lumen led chip



- 45mil led chip, 140lm/w
- $\geq 80\ 000$ hrs lifetime
- ≥ 70 Ra CRI

Smart Controller



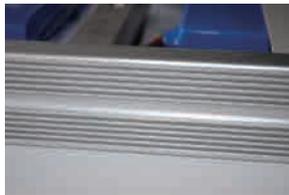
- unique design
- Combine light control and time control perfectly, ensure whole system more energy efficient
- Smart control, saving more and system works stably

LiFePO4 Battery



- High capacity
- No pollution and stable
- 8 years lifetime, ≥ 2000 times charge & discharge
- High temperature resistance

High quality body



- patent design
- Aluminum alloy, solid and firm
- Zinc plated, anti-rust corrosion
- Improve the thermal dispersion

Thermal dispersion Slot



- patent design
- Improved thermal dispersion efficiency with 20%
- patent design

Working mode

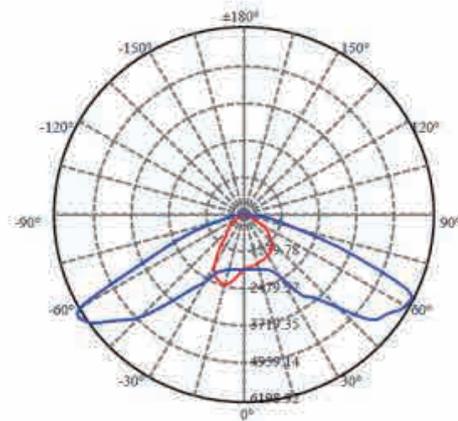


Applications:

Widely used in Rural road, Courtyard, Villa, Park, Square, Farm, School, Factory, Slow lane etc...the places where need outdoor lighting and with enough sunshine.



Luminous intensity distribution curves:



Parameters:

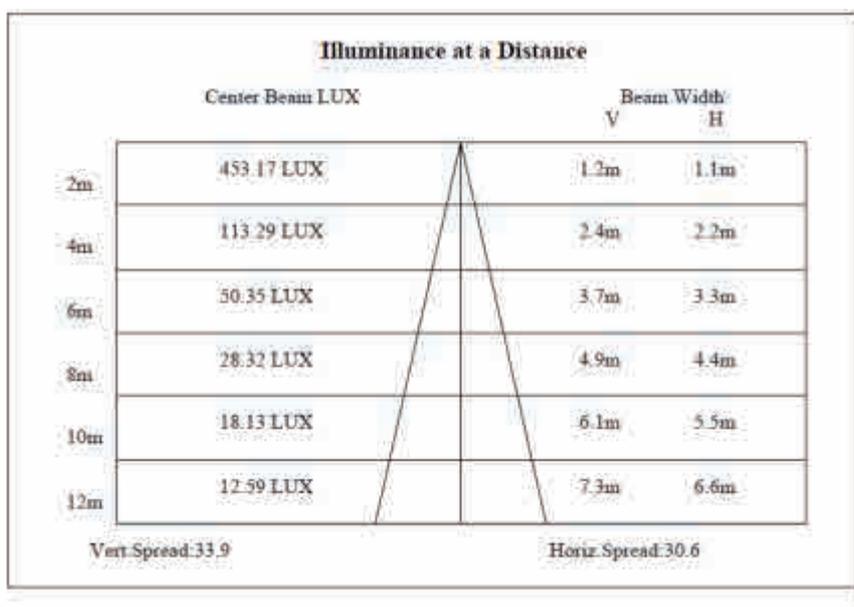
Solar panel	Max power	18V 280W (mono-crystalline silicon)
	Life time	25 years
Battery	Type	lithium battery 25.6V / 48AH
	Life time	5 years
LED Lamp (with sensor)	Max power	24VDC 200W
	LED chip brand	Bridgelux from USA with high brightness
	Lumen (LM)	28800-28900lm
	Life time	80 000hours
Charge Time	by sun	10 hours (in strong enough sunshine)
	Full power mode	>17 hours
Discharge Time	Saving power mode	>34 hours
	Range(°C)	-20°C~+70°C
Working Temperature	Range(k)	6000-6500k
Colour Temperature	Range (m)	8 -12m
Mounting Height	Range (m)	30-40m
Space Between Light	Aluminium alloy	
Lamps Material	CE / ROHS / IP65	
Certificate	5 years	
warranty period		

The data of its working time was measured at latitude 22 °, 113 ° east longitude in sunny days.

The working time will be affected by the surroundings.

For and on behalf of
SHENZHEN MOONLIGHT LIMITED
kim.Nie
 Authorized Signature(s)

Luminous intensity distribution curves:



Using Instructions:

- Solar All in One light, need solar power to charge battery, please select appropriate model based on local sunshine conditions.
- Please avoid solar panel be block by building, trees or other obstructions, otherwise it will reduce efficiency of solar panels working, resulting in lower efficiency of system.
- Charging temperature of Lithium battery is 0°C to 55°C, the discharging temperature is -25°C to 70°C, make sure that ambient temperature is in this range when used, avoid damage to lithium battery.
- Please cleaning surface of solar panels regular, such as dirt, leaves, oil, etc., ensure high photoelectric conversion efficiency.
- Cleaning snow of solar panel surface timely in winter.

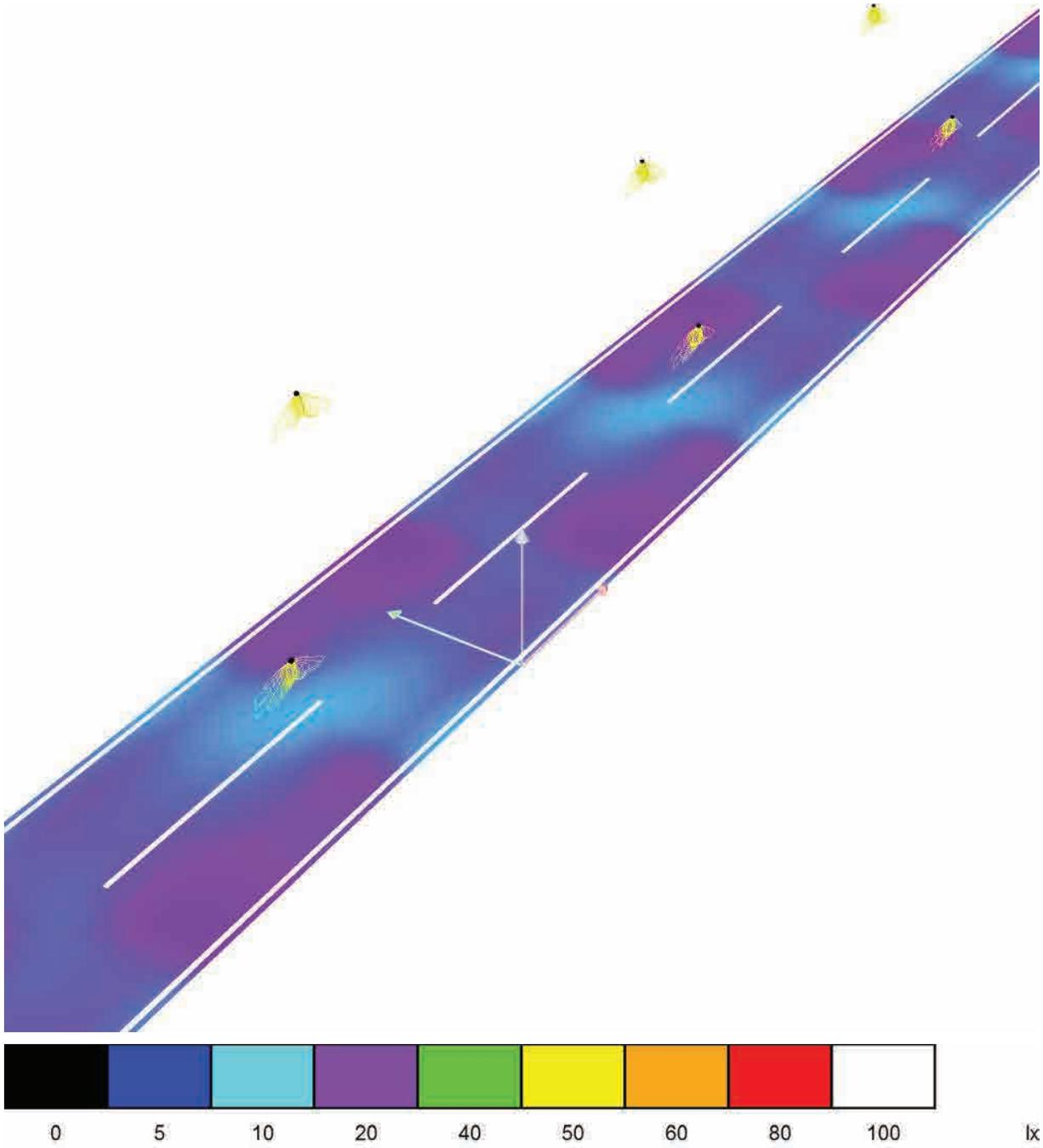
Package specification:

Packing & Weight	Product size	1480*685*140mm
	Product weight	36kg
	Packing box	Neutral Carton Box
	Carton size	1550*690*200mm
	Q'ty/ctn	1sets/ctn
	GW .for carton	40kg
Packs Containers	20' GP	90 sets
	40' GP	200sets

Color box packaged, anti-shock packaging material, with bubble bags and foam, ensure transport safety.



Outdoor scenes / False Color Rendering



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