
30W LED 132w Quadrangle Shape PV bonded Vertical Solar LED Street Light



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If you are looking for a powerful solar street light with an innovative streamlined design, then the SNV Vertical Solar LED Street Light is specially made for you.

To increase sunlight absorption, we equipped each solar light with 4, 8, or 12 high quality monocrystalline panels that have a conversion efficiency of 21.2%, then we securely fixed these panels on a quadrangle frame.

This design ensures that at least 50% of the panels will face the sun during any time of the day, allowing for 360 degrees full day charge.

In addition to the improved charging capabilities, this design also improves the aesthetic appearance of the solar light, prevents snow and dust build up, and makes it much easier to clean. All you need is a long window brush, and you are all set up.

When it comes to energy storage, we manufactured our SNV Vertical Solar LED Street Light with a built in Lithium-Ion battery that can provide up to 2000 charge cycles with 100% depth of discharge.

Incorporating the 360 degrees design and the high-capacity battery allowed the SNV Vertical Solar LED Street Light to continuously run for over 36 hours at night after only 6-8 hours of sunlight, which

is a great run/charge ratio among all solar street lights.

And to save the battery's charge even more, we implemented a half power mode, which automatically halves the light output in the second half of the night when the excess power is not needed.

Speaking of lighting modes, we equipped the light with several working modes that can be controlled using either the included remote control or the Bluetooth app.

In lighting terms, we designed each lamp head with 42 high-power LEDs resulting in a 70 degrees beam angle and over 100 lumens per watt.

With these lights, you don't have to worry about the weather anymore.

This is because we manufactured the SNV Vertical Solar LED Street Light with an anti-corrosion aluminum die casting frame that can withstand the toughest weather conditions such as heavy rains, powerful wind, excessive heat, and frost.

We take immense pride in our product's quality. Therefore, with each solar light ordered, you will get a 3 years product warranty that covers shipping, parts replacement, and even whole product replacement free of charge.

However, starting from year 3 to year 5, the shipping is on you.

SINOLTECH is a top-tier solar manufacturer with plenty of product lines and factories in Shenzhen, Kunshan, and Zibo that cover 10,000 square meters area and have over 200 qualified employees.

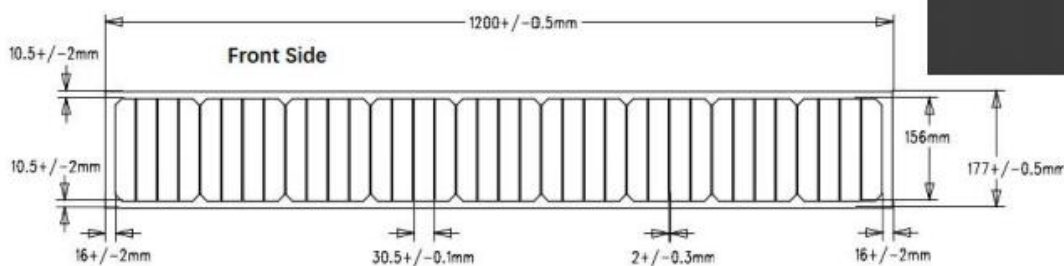
Since 2005, we have been a leading supplier of high-quality solar lighting applications including all in one street lights, solar led skylights, solar wall lamps, and solar lawn lights.

Cylinder Solar Module Data Sheet

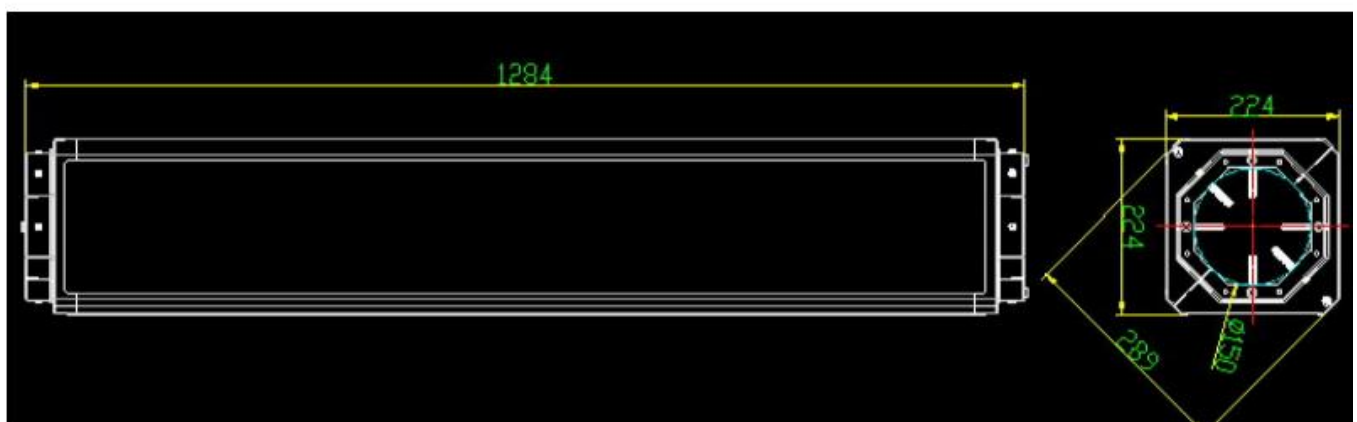
Each Module consists of 4PCS single Solar PV Cell, Single PV Cell Specification:

Model number	Q-33
Maximum power [Pmax]	33W $\pm 5\%$
Voltage at Pmax [Vmpp]	18V $\pm 3\%$
Current at Pmax [Impp]	1.83A $\pm 3\%$
Open-circuit voltage [Voc]	21.6V $\pm 3\%$
Short-circuit current [Isc]	2.01A $\pm 3\%$
Cell type	High efficiency MONO cell
Material	Aluminium+tempered glass
IP Rate	IP65
Solar cell efficiency	>20.5%
Cable type	2.5mm ² with MC4
Operating temperature	-40°C~+80°C
Warranty	3 years
Life time	>20 years

Single PV Cell Dimensions



Single Module Dimensions(consists of 4 PCS Solar Cell)



Power output: 132 Watt, Unit: mm

Key Advantages

ALUMINIUM DIE-CASTING FIXTURE

High quality of light fixture with powder coated and salty fog corrosion resistant, streamlined design appearance.

HIGH LUMENS

Adopt more leds less current driven led board, achieving more than lumens up to 150lm/W output with good lighting performance.

INTEGRATED STRUCTURE DESIGN

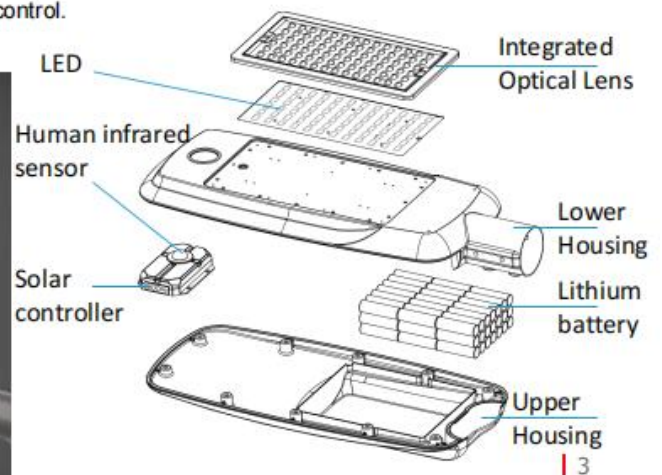
LifePO4 battery and high quality MPPT charge controller are built inside of light head fixture combined as a complete unit with easy to plug connectors. Simple and durable connection.

LONG LIFETIME BATTERY

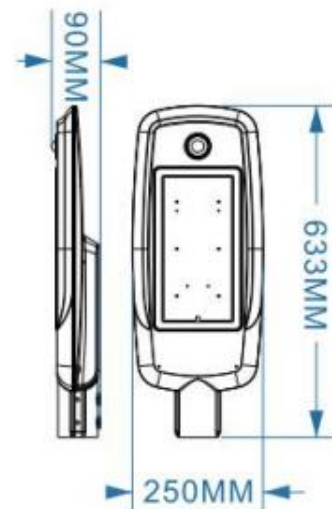
Adopting long time lithium battery, Free of maintenance. Up to 2000 cycles with D.O.D. 100% performance,

VARIOUS FUNCTIONS

Human body induction, timing control, light control, bluetooth APP control.



LIGHT FIXTURE	SNV-30W	SNV-60W	SNV-80W
LED power	30W	60W	80W
Luminous flux	>3,000lm	>6,000lm	>9,000lm
LED	42Pcs Bridgelux 5050	42Pcs Bridgelux 5050	42Pcs Bridgelux 5050
Pole height	6 meters	8 meters	10 meters
Install distance	12-18 Meters	21-27 Meters	27-33 Meters
CCT range	2800-6500 K (tolerance ±300K)		
CRI	>75		
Beam angle	140 °70 degrees		
Lighting effect	130-150 LM/M		
Fixture size	633*250*90MM		
Fixture material	Aluminium die casting		
Fixture color	Gray		
IP rate	IP66		
Motion sensor	Human body induction		
Installation size	φ60mm		
Connector & cable	2.5mm2 with easy to plug connectors		
Working temp.	-25°C~ +65°C		
Warranty	3 years		



BATTERY PACK			
Battery type	Ternary lithium battery		
Battery capacity	249.6WH(12V20.8AH)	436.8WH(12V36.4AH)	624WH(12V52AH)
Quality level	Brand new A Class		
Charge time	6-8 hours		
Discharge time	>36 hours		
Battery lifetime	2000 cycles		
D.O.D	100%		
Autonomy	2 ~3 days		
BMS	Built-in		
Over-DV	11.5V		
Over-DRV	12.8V		
Over-CV	14.6V		
Over-CRV	13.2V		



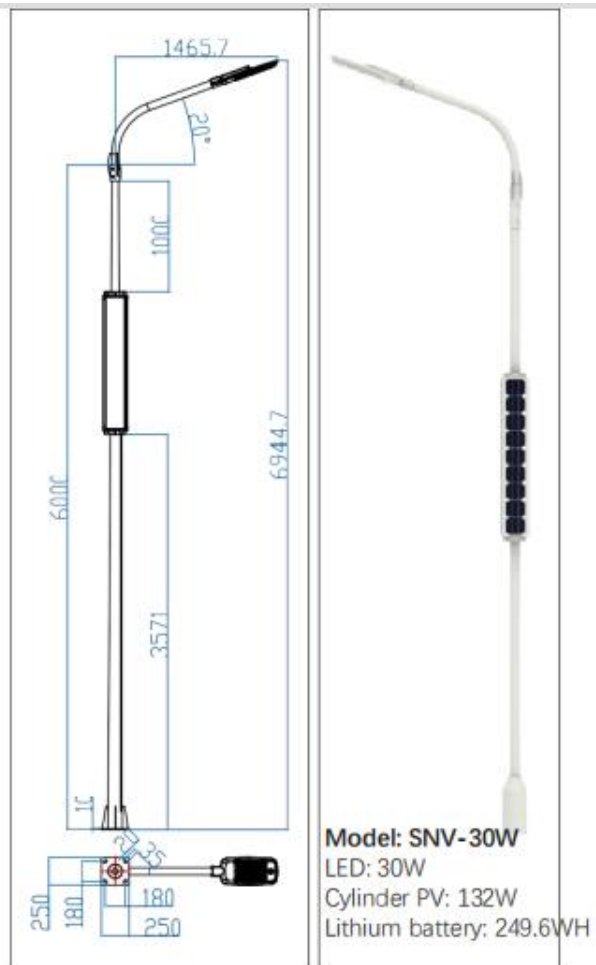
Lithium BatteryPack

SOLAR CHARGER			
Charge mode	MPPT		
System voltage	12V		
Output current	0.5A ~5A settable		
Efficiency	>98%		
Setting method	by remote control		
Installation method	built-in		
Operating temp.	-40°C~ +80°C		
IP rate	IP68		
Solar cylinder module	132W 18V(4PCS)	264W 18V(8PCS)	396W 18V(12PCS)
Regular solar panel	50W 18V	70W 18V	100W 18V
Certificates	CE, ROHS		



Self-Innovated Solar Charge Controller

Drawing



Product link : <https://www.sinolsolar.com/20w-30w-50w-led-vertical-solar-street-light.html>