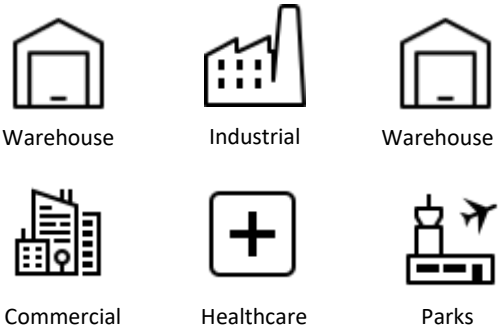


EcoNova Solar streetlight PSS Nova SL series

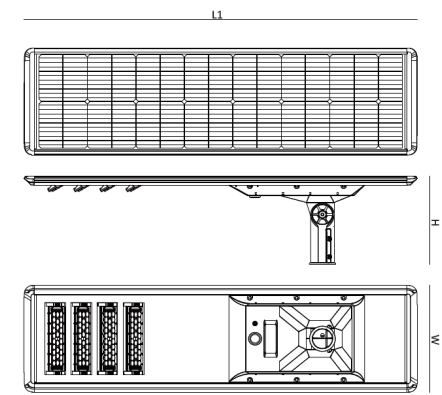
EcoNova Solar Streetlight is the perfect lighting for outdoor application. The PSS NOVA ST is available in a wide range of Wattage, 50W to 180W, which apply pole heights from 5 meters to 14 meters. Equipped with advanced microwave sensors for movement detection, it maximizes energy efficiency. Embrace eco-friendly, maintenance free lighting that withstands harsh environments, thanks to its IP65 rating. Optional with hybrid version.



Application



Dimension



PSS NOVA SL						
Initial luminous flux (system)	8,500	10,200	13,600	17,000	20,400	23,800
Normal Wattage (W)	50	60	80	100	120	140
System Voltage (dc V)	12					
Battery	LiFePO4					
Battery Capacity	12.8V 384WH	12.8V 460WH	12.8V 614WH	12.8V 768WH	25.6V 921WH	25.6V 1075WH
System Efficacy (lm/W)	170					
LED adjustable angle	-10° ~ + 30°					
Controller Type	MPPT with sensor					
Hybrid	Hybrid					
Corr. Color Temperature (K)	3000K / 4000K / 5000K					
CRI	70/80					
IP/IK rating	IP65 / IK08					
Installation Height (m)	4-8	5-8	6-10	6-12	8-12	8-14
Working Temperature	-10 °C - 60 °C					
Dimension (mm) L1 x W x H	1100*420*350	1100*420*350	1300*420*350	1590*420*350	1360*530*380	1480*530*380
Weight (kg)	12.30	14.60	18.50	23.50	26.50	29.50

EcoNova Solar streetlight PSS Nova SL series

CODE	WATTAGE (W)	LUMEN (lm)	CCT (K)	IP Rating	DIMENSION mm
PSS NOVA SL 85/50W WW/HY	50	8500	3000	IP65	1100*420*350
PSS NOVA SL 102/60W WW/HY	60	10200	3000	IP65	1100*420*350
PSS NOVA SL 136/80W WW/HY	80	13600	3000	IP65	1300*420*350
PSS NOVA SL 170/100W WW/HY	100	17000	3000	IP65	1590*420*350
PSS NOVA SL 204/120W WW/HY	120	20400	3000	IP65	1360*530*380
PSS NOVA SL 238/140W WW/HY	140	23800	3000	IP65	1480*530*380
PSS NOVA SL 85/50W NW/HY	50	8500	4000	IP65	1100*420*350
PSS NOVA SL 102/60W NW/HY	60	10200	4000	IP65	1100*420*350
PSS NOVA SL 136/80W NW/HY	80	13600	4000	IP65	1300*420*350
PSS NOVA SL 170/100W NW/HY	100	17000	4000	IP65	1590*420*350
PSS NOVA SL 204/120W NW/HY	120	20400	4000	IP65	1360*530*380
PSS NOVA SL 238/140W NW/HY	140	23800	4000	IP65	1480*530*380
PSS NOVA SL 85/50W CW/HY	50	8500	5000	IP65	1100*420*350
PSS NOVA SL 102/60W CW/HY	60	10200	5000	IP65	1100*420*350
PSS NOVA SL 136/80W CW/HY	80	13600	5000	IP65	1300*420*350
PSS NOVA SL 170/100W CW/HY	100	17000	5000	IP65	1590*420*350
PSS NOVA SL 204/120W CW/HY	120	20400	5000	IP65	1360*530*380
PSS NOVA SL 238/140W CW/HY	140	23800	5000	IP65	1480*530*380

SunMaster ELite III PRO



Features

- **High Efficient components, Authentic materials**

- LiFePO₄ battery with 2000 lifecycles, safe and reliable
- Highly quality monocrystalline solar panel
- High Quality aluminum housing, robust and durable
- Easy access to battery compartment
- Protection grade is IP66 / IK08 (Solar panel: IK07)
- Adjustable elevation angle of lamp: -40°~+40°

- **Professional light distribution, Full nominal**

- Highly efficient with 210lm/w efficacy
- Lumen from 12600lm to 37800lm
- Adjustable LED module quantity is optional
- Optical Module mounting $\pm 60^\circ$ angles adjustable

- **Intelligent dimming, High brightness and long battery life**

- Intelligent charge and discharge management, 365 day light, 2 overcast days autonomy
- Optional intelligent 4G/Lora remote control solution
- 3/5 years warranty

Solar Street Light Specification



Product Parameters:

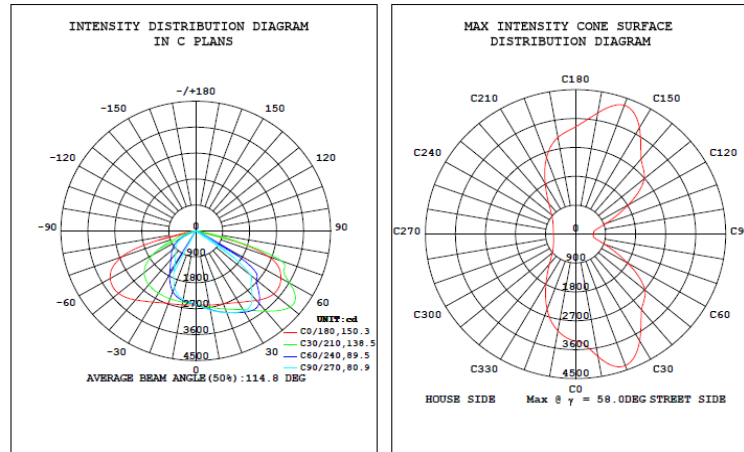
Product Model	UNI-SL04-1-60	UNI-SL04-2-80	UNI-SL04-3-100	UNI-SL04-4-120	UNI-SL04-5-150	UNI-SL04-6-180
System Voltage	12V		24V			
Monocrystalline Solar Panel	120W/18V	160W/18V	200W/36V	240W/36V	300W/36V	360W/36V
LiFePO ₄ Battery	12.8V/90AH	12.8V/120AH	25.6V/75AH	25.6V/90AH	25.6V/120AH	25.6V/135AH
Charge Time (H)	10~11	10~11	10~11	10~11	10~11	10~11
Full Power Working Time (H)	15.3	15.3	15.3	15.3	15.3	15.3
System Power (W)	60W	80W	100W	120W	150W	180W
Hybrid	Battery					
Luminaire Efficacy (Tq=25°C)	180lm/W or 210lm/W@4000K					
Luminous Flux (lm)	10800/12600	14400/16800	18000/21000	21600/25200	27000/31500	32400/37800
Default Lighting Mode*	4hrs 100%+2Hrs60%+5hrs 30%+30% Until dawn (10-15hrs), Reference sunshine hours 5 KWH/m ² /day					
Overcast Days	2 Days					
CCT	4000K (3000K/4000K/5000K/6500K)					
CRI	Ra>70					
Light Distribution	Type II S					
Charge Temperature	0°C ~ 55 °C					
Discharge Temperature	-10°C ~ 55 °C					
Storage Temperature	0°C ~ 55 °C					
Warranty	3/5 years					
Housing Materials	SPCC Housing + Extruded Aluminum Frame + PC					
Finishing	Black RAL9004					
IP/IK	IP66/IK08 (Solar panel: IK07)					
Insulation Class	Class III					
Spigot Diameter (mm)	Φ76				Φ104	
Installation Height (m)	6~8	6~8	8~10	8~10	10~12	10~12
Wind-Resistance (km/h)	130					
Luminaire Dimension (mm)	1080*586*557	1460*586*557	1344*771*557	1530*771*557	1318*1134*567	1540*1134*567
Main Body Packing Dimension (mm)	670*520*440	670*520*440	850*660*455	850*660*455	850*760*455	850*760*455
Solar Panel Packing Dimension (mm)	1170*125*670	1550*125*670	1434*125*855	1620*125*855	1408*125*1218	1630*125*1218
Module Packing Dimension (mm)	NA	NA	NA	NA	1165*180*145	1165*180*145
Net Weight (±3kg)	35	40	45	48.9	60	67
Gross Weight (±5kg)	40.5	45.5	52	56.5	71	76

*Factory default value, the lighting mode can be customized as per specific requirements.

Solar Street Light Specification

Unilumin

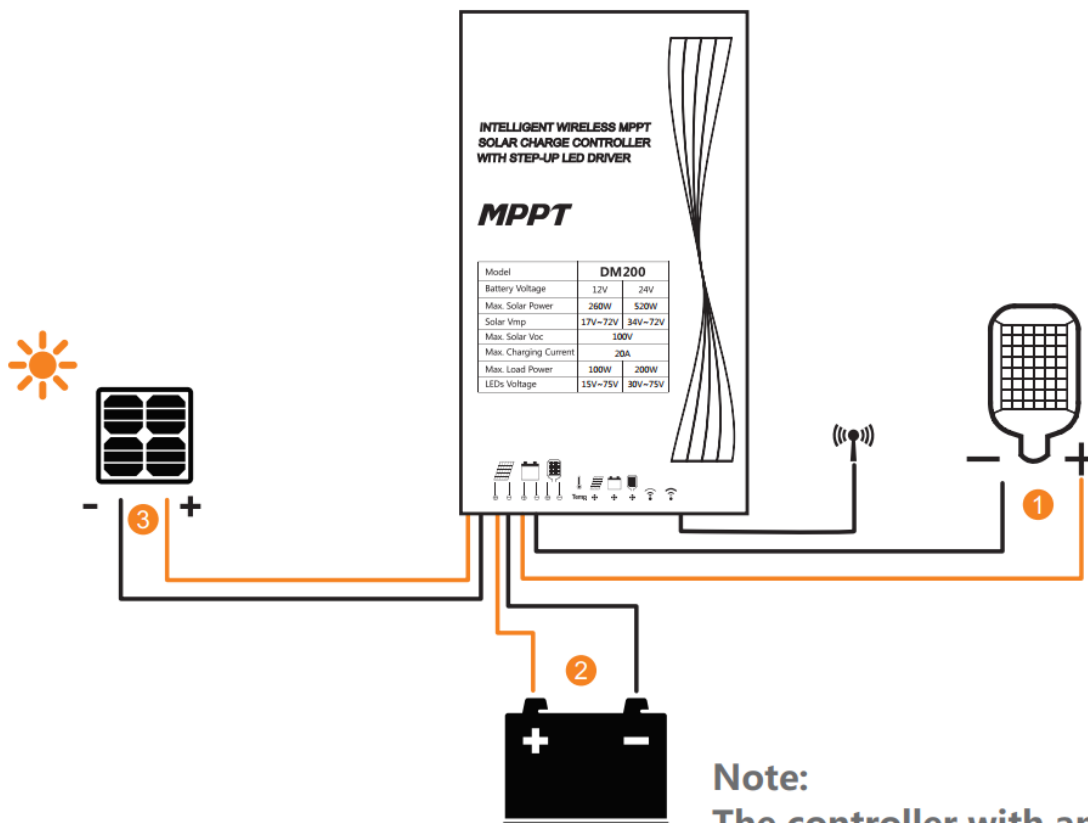
Light Distributions:



Type II S (5050)

Note: The pictures are only the references of typical light distribution type, and the specific parameters shall be subject to the actual IES of the product.

Wiring Diagram:



Maintenance:

- To ensure the solar panels can receive light effectively, please clean the surface of the solar panels with a soft cloth and water regularly. Do not use chemicals and abrasives that containing strong solubility such as ammonia.
- Recommended storage time shall be less than 3 months as the battery will be affected by self-discharge. If it has been transported or stored for a long time, it is necessary to check, charge and make record regularly, otherwise it will affect the capacity and service life of the battery.
- Make sure installing the solar panel face to the direction where has most sunlight, so that it can effectively absorb the sunlight energy. Avoid tall buildings or trees that may block the sunlight, and places with heavy dust need to be cleaned up in time.
- All screws shall be tightened evenly according to the standard, and should not be loosened and shaken.

Cautions:

- Solar panels belongs to “fragile” product category. Please do not scratch or apply impact on panel during installation, as the scratches, dust, and occlusion on the surface will affect the efficiency of power generation of solar panels.
- Solar panels facing south for places in the northern hemisphere, and facing north in the southern hemisphere.
- When the product is not in use, it shall be charged every 3 months. If long-term transportation or storage is required, it shall be checked, charged and recorded in time, otherwise battery life may be affected. Charging method: under a sufficient sunlight, turn on the lamp, turn the solar panel facing to the sun, charge continuously for 1-2 days, read the status with the remote control that display it is in charging.
- The installation of lamps should be away from WIFI, omnidirectional antennas for mobile communications, small base stations for telecommunications, and TV antennas. Signal sources that are too close may disable the dimming function.
- The lamp should not be installed on the vibrating surface, and the shaking of the lamp may cause the sensor to be triggered by mistake.
- The dimming function of the lamp may be affected by the presence of vibrating objects in its

sensing area.

- The microwave sensor has a good penetration performance though plastic and wood. Please avoid metal shielding around, which will reflect and block microwaves, affecting the actual induction performance.
- Walls, glass, ceramics will bring microwave reflection and penetration attenuation, reduce the sensing distance of the sensor, the thicker the material, the more serious the attenuation.
- In the actual application environment, the sensing range of microwave sensors will be different due to the different reflectivity of obstacles.
- If there is a glass barrier between the infrared sensor and the detection object, and the far infrared ray passing through in it, while the heat source in the detection range is almost not moving or moving at high speed, sensor may not be triggered.
- The movement of animals and objects within the sensing range may cause false triggering, causing the light to turn on.
- Microwave sensor is not suitable for lakes, rivers, seaside and similar places.
- Turn on the switch of the lamp before use. Before installation, test whether the lamp is able to charge and discharge (the solar panel is charging under the sunlight and the lights are off. Solar panels is discharging when panel is fully blocked and lights are on).
- Do not put the lamp in water or fire, there may be a risk of explosion.
- This product can withstand hurricanes of Category 14, hurricanes higher than Category 14 may cause damage to the product.
- Maintenance/teardown shall be conducted by professional or technical personnel. For the lamps are no longer in service, the battery needs to be taken out by professionals too.
- If there is a need for change of light source in this lamp, it should be replaced by the manufacturer or its service agent or a similarly qualified person.
- The product contains lithium batteries, which is regarded as flammable and explosive materials. Please abide by the air transportation regulations during transportation: do not fall violently and lift the package gently during transportation. Storage should be separated from other items to avoid damage.
- When the continuous rainy days are longer than the design days, the battery power will be drained. Due to the extremely low charging efficiency in rainy days, you may see the working time is short,

this is normal. The working time will improve when the sunny days is back.

- Product specifications are subject to change without notice, and the final interpretation right of this specification belongs to the manufacturer.