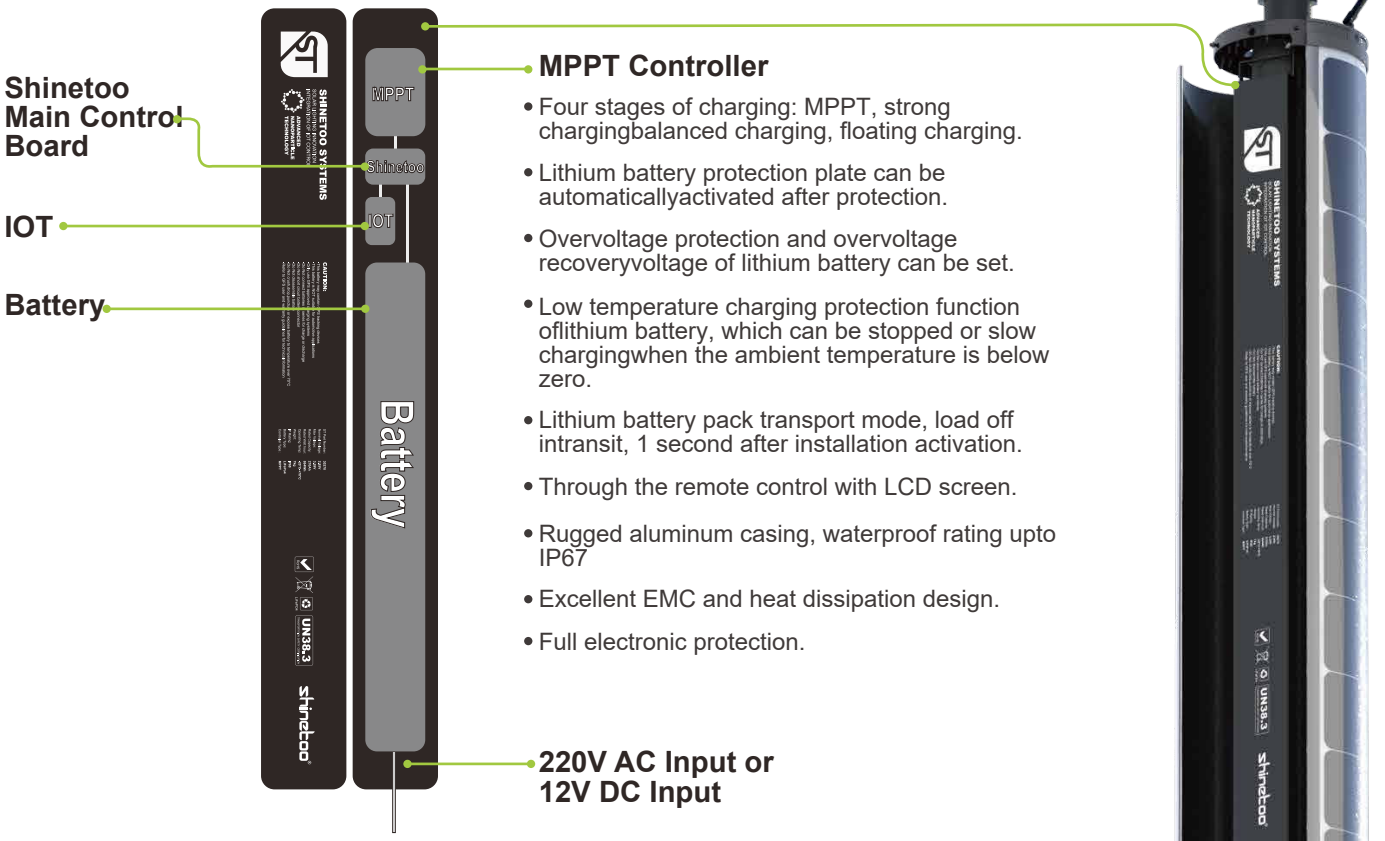


Smart & Solar

SMART LIGHTING CONTROL AND REMOTE LIGHTING CONTROL

Smart hel solar lght poles are egulpped with "Intelligence" to optimize their daly operation. A mlcroprocessoi and a smart, selflearing software algorithn control photovoltaics, battery and lumlnare. The result: a highly relable lchting system with excellent performance and careful battery management for lona-lfe time. Every single hel solar lght pole ls a self-sustalnng, self-controlled system. Lighting levels are dlmmmed automatically in case of reduced solar vield. Programmable, individual lghting levels and times provide a wide range of flexlbltly. On demand, solar poles can be egulpped with communication modules for remote control and monitoring of hel solar poles.



Remote control

REAL-TIME CONTROL OF LIGHT INFORMATION ON THE PHONE OR COMPUTER

- It can know the remaining capacity and charging and discharging state of the battery of each lamp remotely.
- You can turn the light on and off remotely. You can choose time and space or light control.

New Whole Light Scheme-Hera & Aphrodite



Shinetoo LED Vertical Solar Street Light VS Traditional Solar LED Street Light

Higher conversion efficiency: Vertical solar street lights have a higher conversion efficiency due to the vertical placement of solar panels, which allows the panels to capture sunlight throughout the day regardless of the position of the sun. This leads to a higher power output and longer lighting time.

More flexible design: Vertical solar street lights have a more flexible design than traditional solar street lights. They can be designed to fit in smaller spaces and can be used in locations with limited sun exposure.

Better wind resistance: Vertical solar street lights have a better wind resistance due to their unique design. They are more stable in windy conditions, which reduces the risk of damage to the lights and improves safety.

Reduced light pollution: Vertical solar street lights have a more focused light distribution that reduces light pollution. They are better at directing light onto the road and sidewalk, which reduces glare and improves safety for pedestrians and drivers.

Lower installation costs: Vertical solar street lights have a simpler design that makes them easier to install than traditional solar street lights. They require less equipment and fewer installation steps, which can result in lower installation costs.

In summary, vertical solar street lights offer higher conversion efficiency, better wind resistance, reduced light pollution, and lower installation costs than traditional solar street lights. They also have a more flexible design that makes them suitable for a wider range of locations.

Conventional Installation

Conventional Solar Panels

Conventional Maintenance

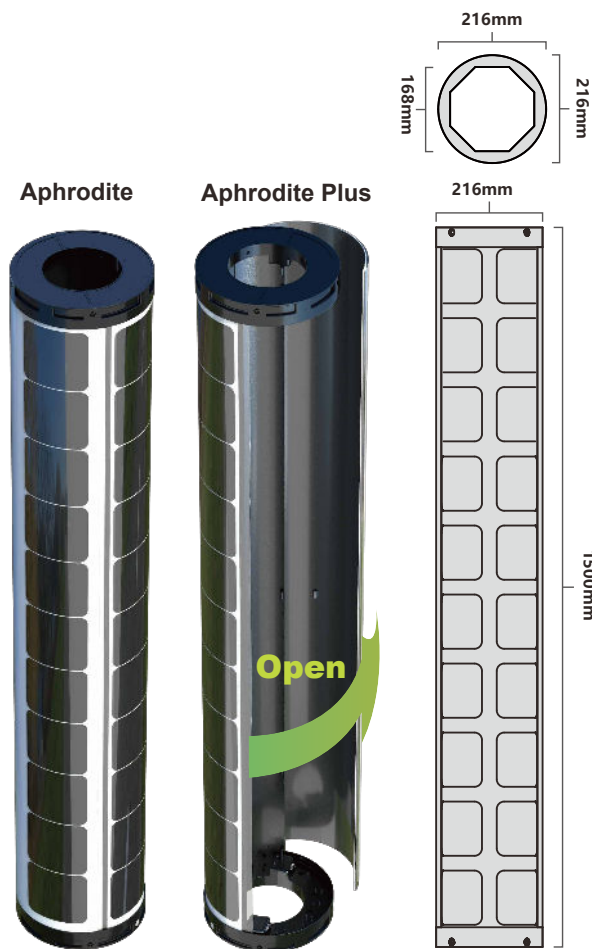
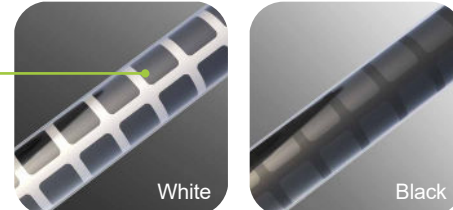
Shinetoo

LED Vertical Solar Street Light

| | |
|---|-------------------------------------|
| MODEL NUMBER | ST-PV160-Aphrodite/Aphrodite Plus |
| Dimension | 1500mm×216mm×216mm |
| Pmax | 160W |
| Suitable for light pole diameter | 60-114mm |
| Solar technology | Monocrystalline silicon solar cells |
| Cell type | Sunpower |
| Cell efficiency | >22% |
| Front sheet material | borosilicate glass |
| Operating temperature | -30℃ ~ +70℃ |
| Lifetime | More than 10 years |
| Weight | 15kg |



There are two colors of black and white to choose from



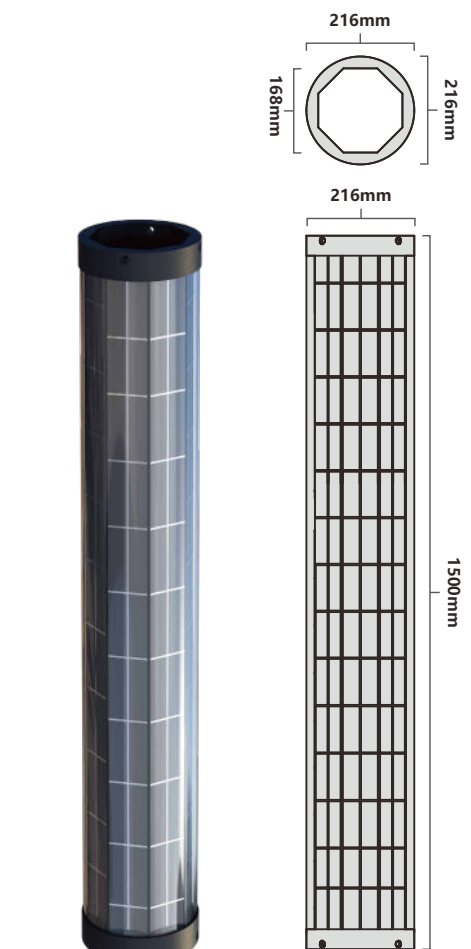
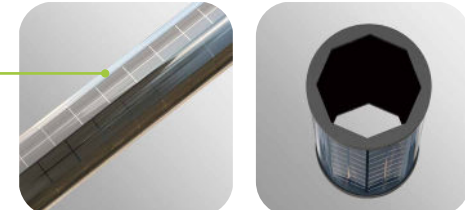
Hera

LED Vertical Solar Street Light

| | |
|---|-------------------------------------|
| MODEL NUMBER | ST-PV160-Hera/Hera Plus |
| Dimension | 1500mm×216mm×216mm |
| Pmax | 160W |
| Suitable for light pole diameter | 60-114mm |
| Solar technology | Monocrystalline silicon solar cells |
| Cell type | Sunpower |
| Cell efficiency | >22% |
| Front sheet material | borosilicate glass |
| Operating temperature | -30℃ ~ +70℃ |
| Lifetime | More than 10 years |
| Weight | 19.5kg |



Custom colour backsheet
and optional backlighting



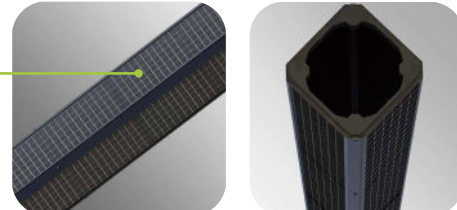
Athena

LED Vertical Solar Street Light

| | |
|---|-------------------------------------|
| MODEL NUMBER | ST-PV160-Althena |
| Dimension | 1500mm×200mm×200mm |
| Pmax | 160W |
| Suitable for light pole diameter | 40-160mm |
| Solar technology | Monocrystalline silicon solar cells |
| Cell type | Sunpower |
| Cell efficiency | >22% |
| Operating temperature | -30℃ ~ +70℃ |
| Lifetime | More than 10 years |
| Weight | 16.4kg |



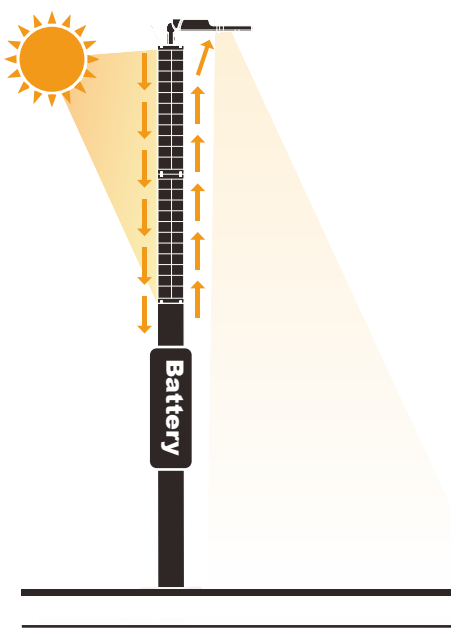
4 solar panels are assembled into a solar module



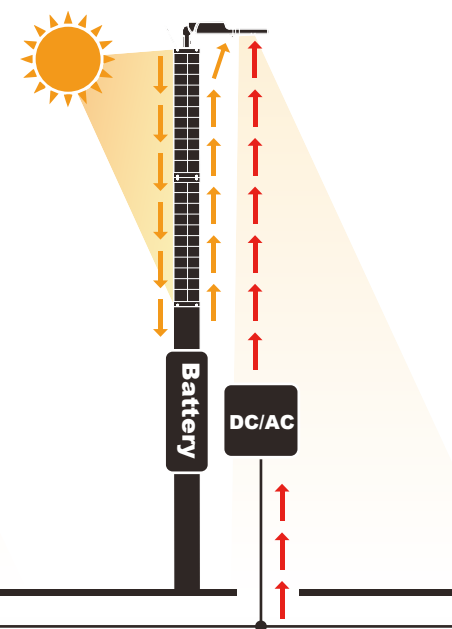
Power Supply Options

- Full solar supply for sunny regions
- Hybrid supply for regions with reduced solar yield in winter.
- Grid feed-in for locations with limited solar yield or if batteries should be avoided

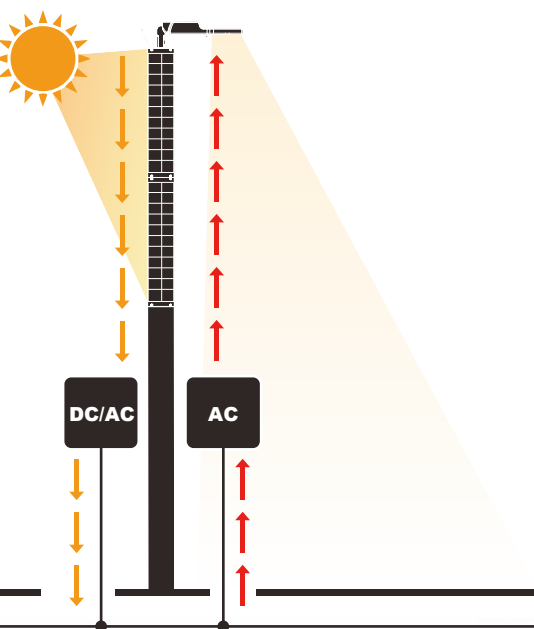
Solar
100% SOLAR POWER SUPPLY
100% SELF SUFFICIENT
No cabling and AC-grid requiredSolar yield
is stored in a batteryduring the day. Battery
powerthe luminaire at night.



Hybrid
UP TO 100 % SOLARPOWER SUPPLY
POWER BACK-UPVIA AC-GRID
Cabling, AC-grid andhybrid box
(AC-DCconverten) required.Power supply via
grid, ifbattery is discharged.

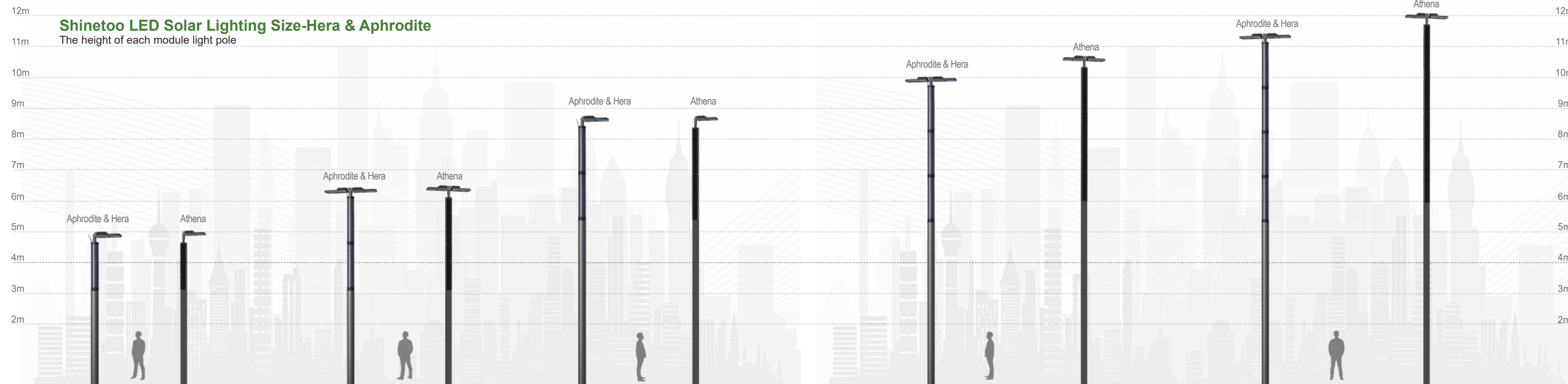
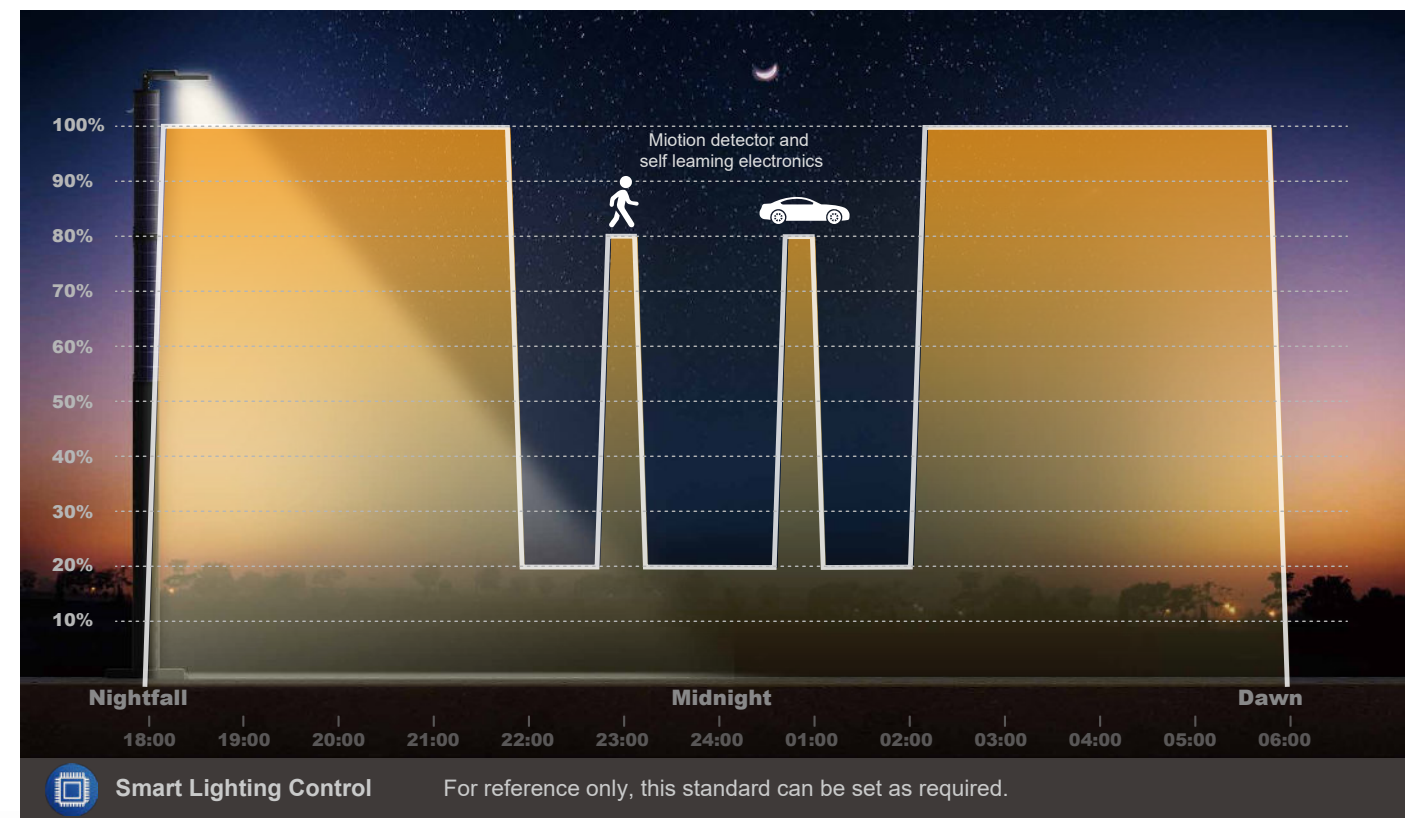


Grid feed-in
UP TO 100 %SOLAR BALANCE
AC-GRID ISENERGY STORAGE
No battery. Cabling andmicroinverter (DC-AC)
conertern required, Solalyled fed into the AC-gridduring
the day. Powersupply via grid at night.



Smart & Solar

Smart control systems for solar street lights are advanced technologies that allow for remote monitoring and control of the lights. These systems use various sensors and control devices to optimize the performance of the solar street lights and reduce energy consumption.



| 20W/30W/40W | |
|-----------------------|--|
| Model Number | ST-SL2011-AP/ST-SL3011-AP/ ST-SL4011-AP ST-SL2011-HE/ST-SL3011-HE/ ST-SL4011-H ST-SL2011-AT/ST-SL3011-AT/ ST-SL4011-AT |
| Solar Light Head | 20W/30W/40W |
| Luminous Flux(lm) | 3600LM/5400LM/7200LM |
| Vertical Solar Module | 1 PV MODULE |
| Pole Height | 4-8M |

| | |
|------------------------------|--|
| 2X30W/2X40W | |
| Model Number | ST-SL3022-AP / ST-SL4022-A ST-SL3022-HE / ST-SL4022-H ST-SL3022-AT / ST-SL4022-A |
| Solar Light Head | 30W/40W |
| Luminous Flux(lm) | 5400LM/7200LM |
| Vertical Solar Module | 2 PV MODULE |
| Pole Height | 4-8M |

| | |
|------------------------------|--|
| 60W/80W | |
| Model Number | ST-SL6012-AP / ST-SL8012-A ST-SL6012-HE / ST-SL8012-H ST-SL6012-AT / ST-SL8012-A |
| Solar Light Head | 60W/80W |
| Luminous Flux(lm) | 9600LM/12800LM |
| Vertical Solar Module | 2 PV MODULE |
| Pole Height | 8-12M |

| | |
|------------------------------|--|
| 60WX2 | |
| Model Number | ST-SL6023-AP ST-SL6023-HE ST-SL6023-AT |
| Solar Light Head | 60W |
| Luminous Flux(lm) | 9600LM |
| Vertical Solar Module | 3 PV MODULE |
| Pole Height | 8-12M |

| | |
|------------------------------|--|
| 80WX2 | |
| Model Number | ST-SL8024-AP ST-SL8024-HE ST-SL8024-AT |
| Solar Light Head | 80W |
| Luminous Flux(lm) | 12800LM |
| Vertical Solar Module | 4 PV MODULE |
| Pole Height | 8-12M |