



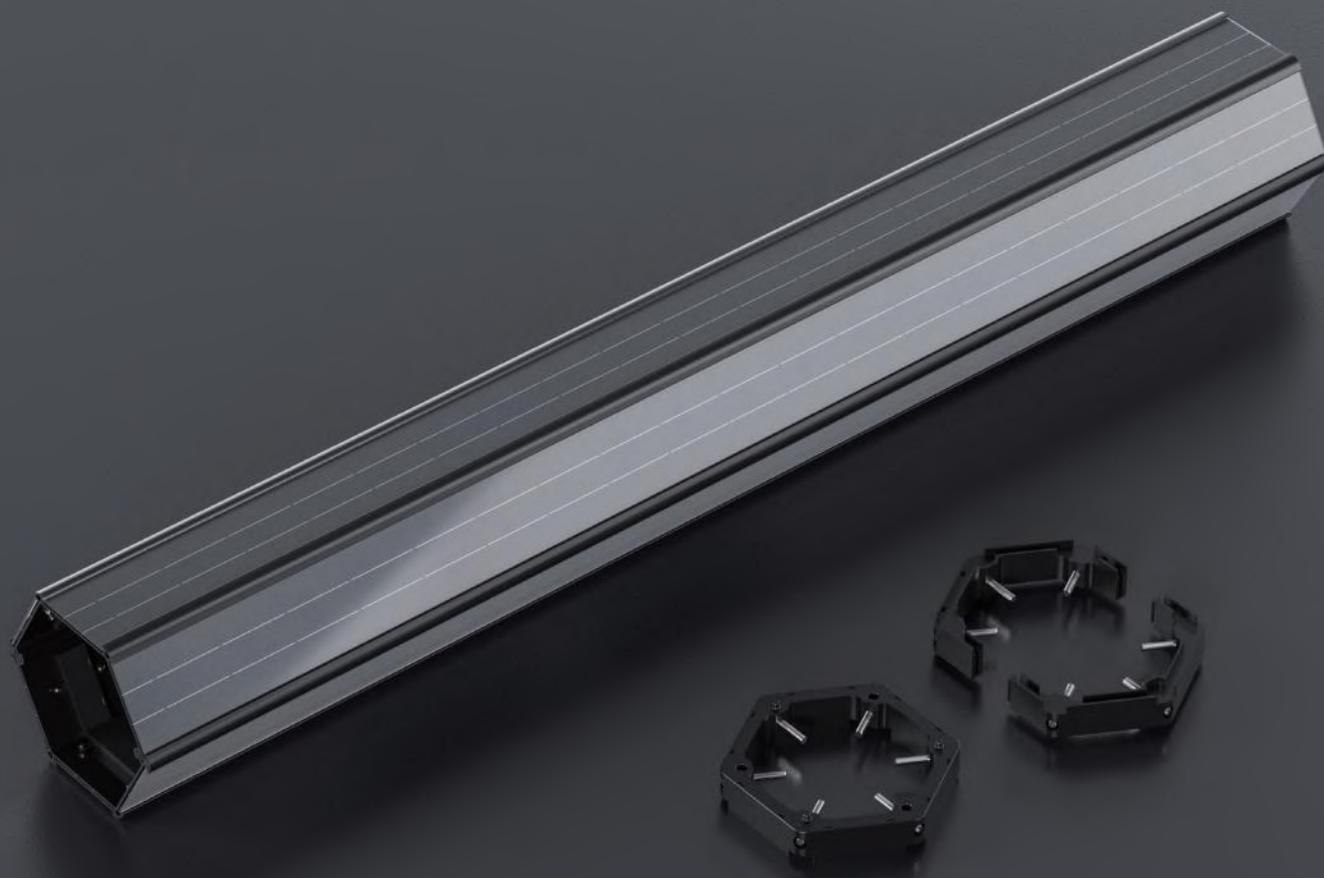
HeXagon

140W | 200W
VERTICAL SOLAR MODULE



 **HeXagon** 140W | 200W

VERTICAL SOLAR MODULE



SolarWrap integrated solar pole system is our most advanced and innovative solar module for various pole-mounted photovoltaic applications. SolarWrap's patented design meets high quality standards for decorative and high-end applications, especially area and garden lighting, without compromising on aesthetics. SolarWrap is the result of our continuous R&D in the field of solar lighting, equipped with high-efficiency solar modules in hexagonal aluminum die-cast structure, achieving the highest performance, strength and durability in many challenging applications. This innovative product can be integrated into any shape and size of pole, making SolarWrap integrated solar pole almost universal. The removable and lightweight design facilitates easy installation and achieves a completely maintenance-free service life.

It can be widely used in outdoor monitors, traffic lights, signal centers, etc. It is also an ideal solution for retrofitting traditional street lights. Simply attach the SolarWrap vertical solar module to the existing light pole without setting up a new light pole. This opens up a whole new possibility to save energy for traditional street lights by using solar energy at the lowest cost.

IK08

 **IP66**

CE

 **RoHS**



FEATURES



360° Full Day Charging

Half area of round solar tube is facing to sun all the time to ensure continuous charging all day long, generating more power



Modular Installation

It adopts modular concepts and uses male and female sliding installation structures to make the installation easier



No Sand & Dust Accumulation

Sand & dust will not accumulate on the vertically installed solar panel. no need to clean the solar panels frequently



No Snow Accumulation

The vertically mounted solar cylinder prevents snow buildup, ensuring reliable power generation even in snowy climates.



No Accumulation of Snow

There is no risk of less or even no power generation from solar panel caused by snow accumulation in winter time.



Strong Wind Resistance

With smaller wind resistance area and stronger installation bracket it has very great wind resistant performance up to 160km/H.



Aesthetics Appearance

All the mounting poles adopted vertical PV cylinder blend into environments perfectly without disturbing the beauty of the view.

Stable Fixing Bracket

SolarWrap vertical solar cylinder is able to cater to different sizes and different shapes of mounting poles.



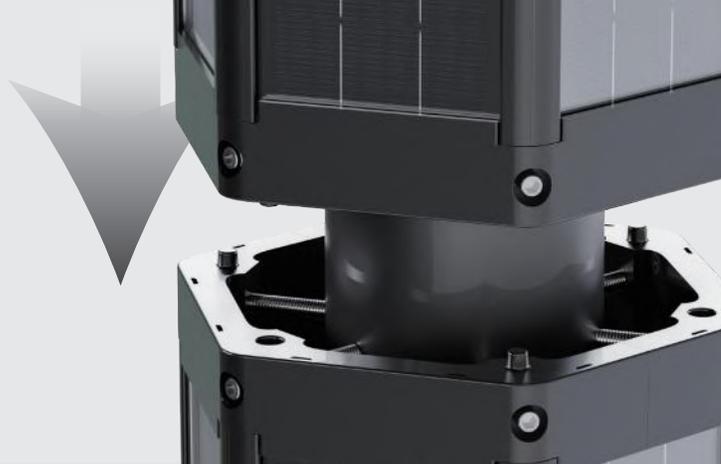
High-Efficiency Solar Panel with Exceptional Craftsmanship

This solar panel combines cutting-edge technology with exquisite craftsmanship, with extremely high conversion efficiency. Combined with the hexagonal column structure design, it can achieve closer to 360° light absorption, ensuring maximum power generation even in poor lighting conditions. It is a top solution to meet sustainable lighting needs.



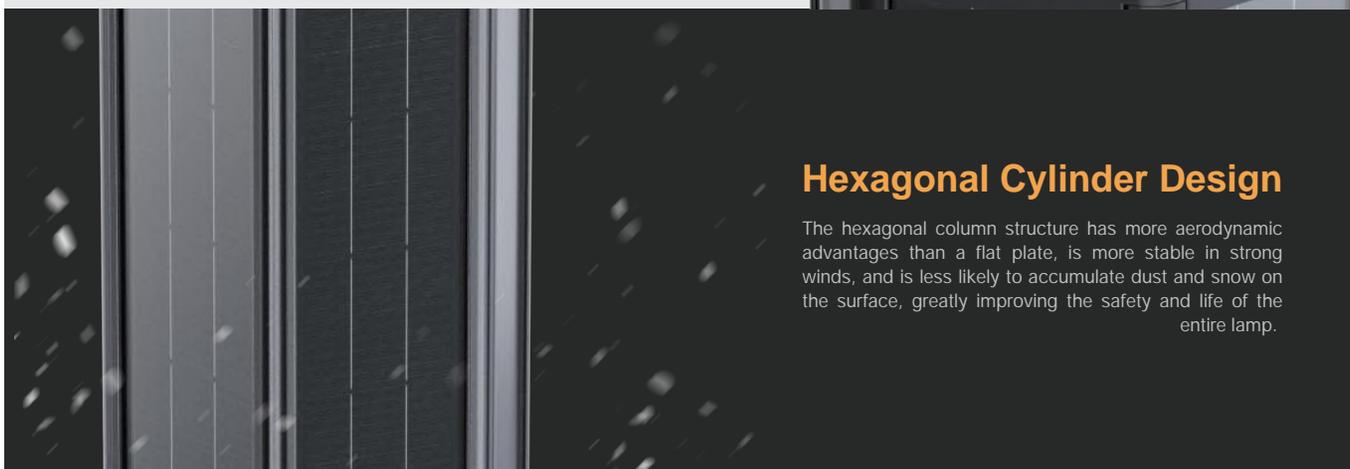
Modular Installation

With the modular concept, multiple modules can be combined into the required output power to meet the needs of different types of projects.

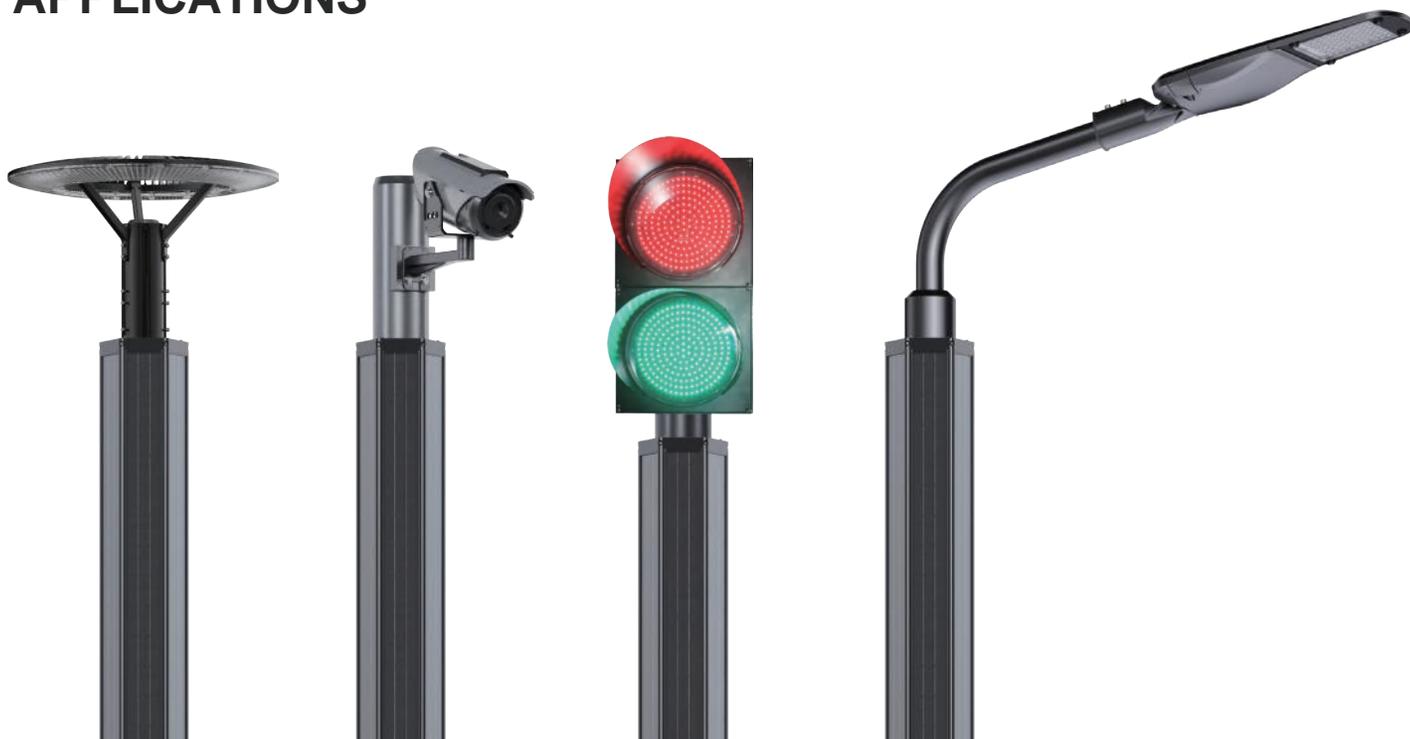


Hexagonal Cylinder Design

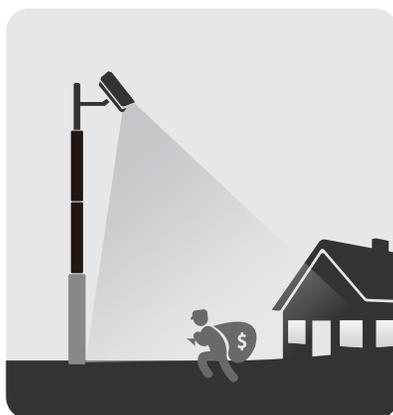
The hexagonal column structure has more aerodynamic advantages than a flat plate, is more stable in strong winds, and is less likely to accumulate dust and snow on the surface, greatly improving the safety and life of the entire lamp.



APPLICATIONS



A Street Light



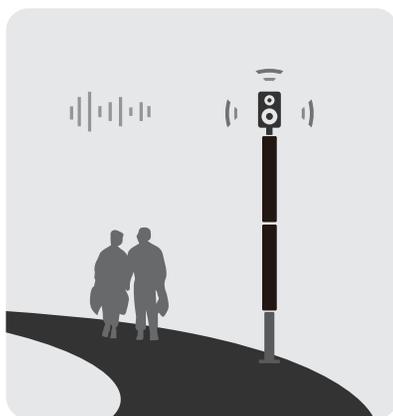
B CCTV System



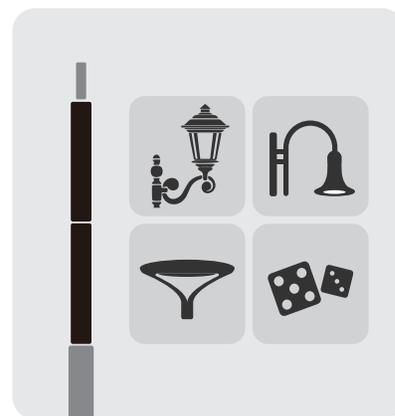
C Garden Light



D Road signal lights



E Wireless Broadcast



F Custom Lighting



SPECIFICATIONS

Model number	Q140	Q200
Dimension	228*200*1560mm	228*200*2060mm
Pmax	140W	200W
Voltage @ Pmax (Vmp)	18V	36V
Current @ Pmax (Imp)	7.78A	5.6A
Open Circuit Voltage (Voc)	21.6V	39.6V
Short Circuit Current (Isc)	8.56A	6.12A
Power Tolerance (w)	±3%	.
Cell type	MONO made in Taiwan	.
Solar cell efficiency	21.20%	.
Cable Size & Connector	2.5mm Universal MC4	.
Operating temp.	-20°C ~ +70°C	.
Lifetime	>20 years	.
Max pole diameter	150mm	.
Glass	High-strength tempered glass	.
Frame	Aluminum frame (High tension resistance, corrosion resistance, abrasion resistance)	.
Mechanical Load	Front 5400PA/back 2400PA	.
Waterproof level	IP66	.
Warranty	5 years	.

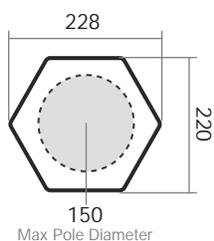
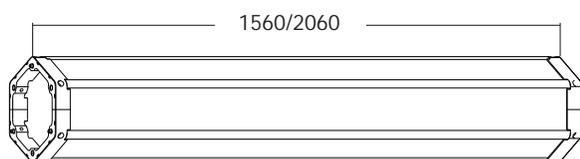
POWER GENERATION

Valid Sunshine Time (hrs)	Average daily power generation (Wh)		Peak power generation (Wh)	
	Q140	Q200	Q140	Q200
2.5	175	275	225	325
3	210	330	270	390
3.5	345	385	315	455
4	280	440	360	520
4.5	315	495	405	585
5	350	550	450	650
5.5	385	605	495	725
6	420	660	540	780

Note: Vertical power generation system has a close relationship with latitude and altitude. The data in this file is based on the data of 23° N, and specific data need to be tested and verified locally.

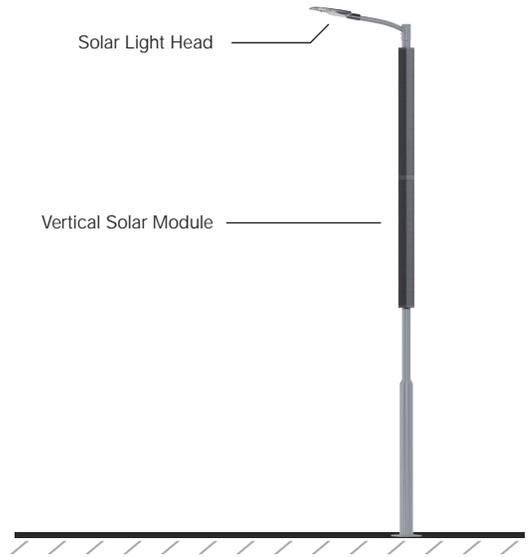
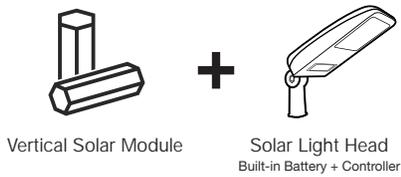
DIMENSION

unit: mm

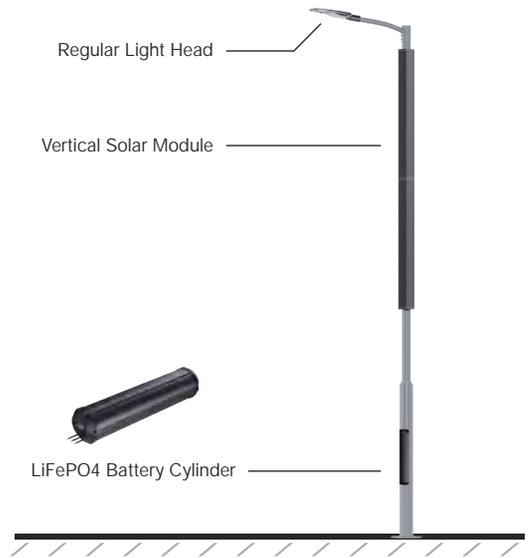


DEFINE YOUR SOLUTION

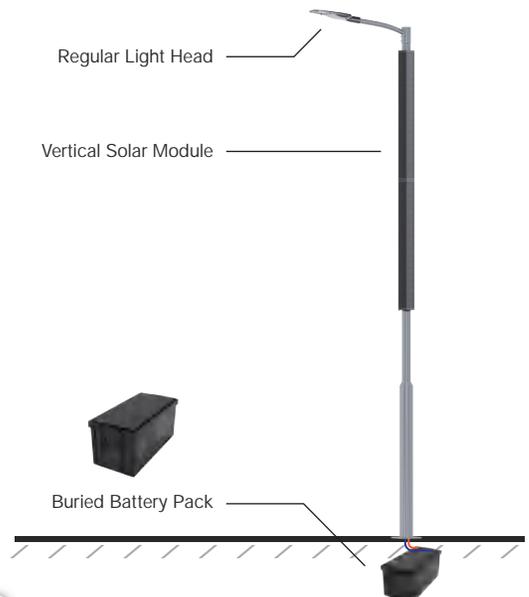
Scenario 01



Scenario 02



Scenario 03



Popular Vertical Solar Street Light Sets



30W / 50W

Model	T3	T5
Lighting Performance	30W 4,800lm	50W 6,800lm
Solar module	200W * 1pc	140W * 2pcs
LiFePO4 battery	307WH 12.8V	460WH 12.8V
CCT	3000K ~ 6000K	•
Beam Angle	Type I / II / III	•
Solar Controller	High Efficiency 97% MPPT	
Dimension	610*265*97mm	•
Warranty	5 years	•



60W / 80W

Model	T6	T8
Lighting Performance	60W 8,800lm	80W 12,800lm
Solar module	200W * 2pcs	200W * 2pcs
LiFePO4 battery	538WH 12.8V	768WH 25.6V
CCT	3000K ~ 6000K	•
Beam Angle	Type I / II / III	•
Solar Controller	High Efficiency 97% MPPT	
Dimension	678*278*102mm	•
Warranty	5 years	•



100W / 120W

Model	T10	T12
Lighting Performance	100W 14,800lm	120W 16,800lm
Solar module	140W * 4pcs	200W * 4pcs
LiFePO4 battery	921WH 25.6V	1075WH 25.6V
CCT	3000K ~ 6000K	•
Beam Angle	Type I / II / III	•
Solar Controller	High Efficiency 97% MPPT	
Dimension	792*310*116mm	•
Warranty	5 years	•



HeXagon

VERTICAL SOLAR MODULE



TEMPLUX

Templux Lighting s.r.l, Via Gradenigo 58, PD35100, Italy, info@templuxitaly.com, www.templuxitaly.com

Hybrid System with 220V Grid Supply (Optional)

Our solar street lights can be equipped with AC85~240VAC backup power supply, which is designed to ensure that solar street lights are more intelligent and reliable under extremely harsh conditions, especially in areas with insufficient solar radiation or sudden severe weather in certain months.

The control system will automatically switch to AC power supply when the battery voltage is dropping a lot and no power in the battery. And it will switch battery power once the voltage of battery is recovered to full capacity. With hybrid system solution, it ensures the non-stop & reliable lighting service without worrying about blackout at all during the whole year.



FEATURES



High reliability

Dual power supply guarantee, no risk of lighting interruption.



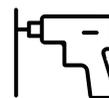
Energy saving

Give priority to the use of clean energy to reduce carbon emissions.



More economical

Reduce power consumption and low long-term use cost.



Flexible installation

Suitable for areas where solar energy resources are unstable or require high brightness.



IoT Smart Control Solutions (Optional)

Our solar street lights can be seamlessly integrated with advanced IoT communication modules, allowing each street light to automatically report key data such as operating status, battery health and solar power generation, while supporting remote switching, adaptive dimming and instant fault diagnosis.



Single light control



Wireless Network



Malfunction management



Energy consumption analysis



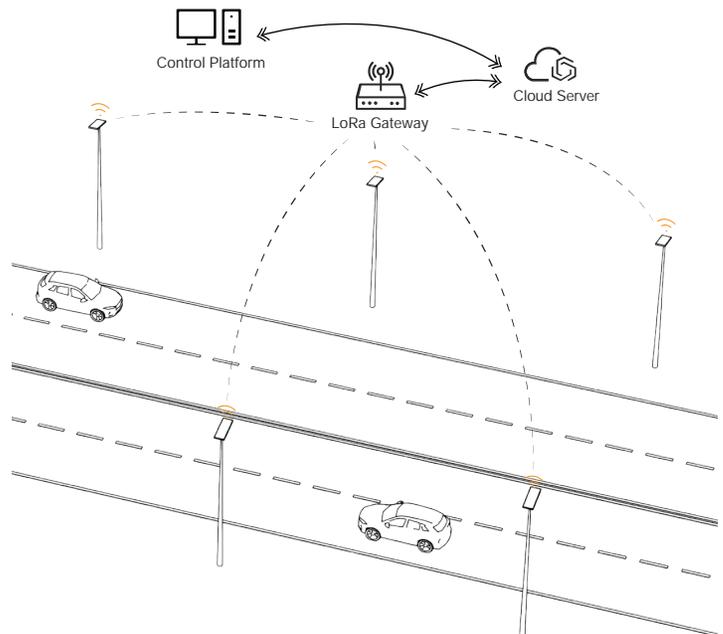
Intelligent monitoring



SMART CONTROL SOLUTION

Advantages

Ultra-low power consumption, ultra-long distance



SMART CONTROL SOLUTION

Advantages

Fast speed, no gateway required, Ultra long distance, High connection stability

