



## GAJ-Hexagon-cylinder-vertical solar panel and led street light solution



## New Installation of Solar LED Street Light

Vertical solar led street light is a latest great innovation, it is becoming more and more popular in many countries because of many advantages and its harmonious appearance. Trismart Lighting is integrating the technology of lithium battery and high efficiency of solar modules as well as solar charger controller.

LiFePO4 battery pack and MPPT solar charge controller are built inside of solar light led street light head. Solar light head and vertical solar module are connected by MC4 plugs. The whole system adopts the modular concept, vertical solar modules are supposed to be assembled to pole at project site. And customers also can arrange the poles locally to save cost.

## Retrofit of Traditional Street Light

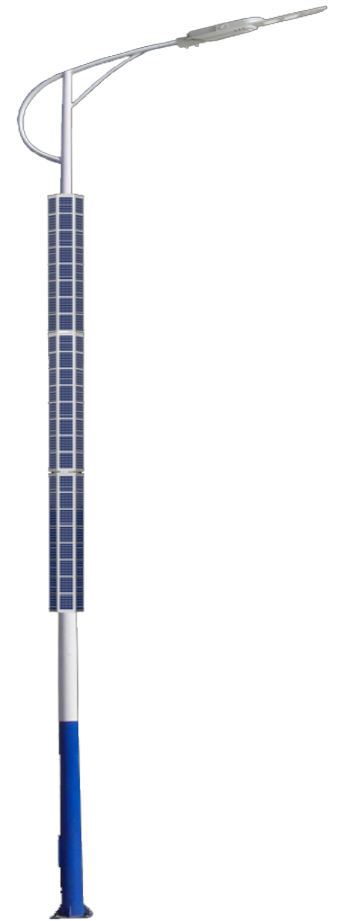
There are huge numbers of traditional street lights installed in everywhere whose light sources are MH or HPS. The power consumptions of these traditional street lights are very high while the lighting efficiency is very low. As the energy shortage globally are getting worse, all of these old traditional lights are supposed to be retrofitted by led and solar energy technology in order to reduce the energy consumption to build up a green earth.

Trismart's vertical solar solution is an perfect answer to meet this requirements. It can retrofit the old lights without replacing the poles, and no need to dig holes on ground for battery or attach the battery box on pole if adopt all in two solar light heads. It reduce the cost of retrofit work in labor cost, pole cost etc greatly and keep light pole almost same appearance as before.

## GAJ-Hexagon-Cylinder-Vertical Solar Lighting Solution

Vertical solar LED street light pole is an advanced combination with latest technology. It adopts the cylindrical solar modules as a revolutionary design. The vertical solar module is based on modular conception which can be easily mounted to any kind of pole within diameter 155mm, It adopts mono-crystalline solar panel with high efficiency up to 21.5% and more than 25 years' lifespan. It has a flexible modular design and with much aesthetical appearance. And it has a great performance in wind resistance than regular solar panel. The complete solar pole only includes two functional components including solar cylinder and solar light head which can be connected to each other directly by MC4 connectors. The battery and solar controller are built inside of light fixture.

Vertical solar led street light pole is a premium and advanced product. It is designed specially for these projects concerning a lot on aesthetical appearance with high luminous flux, durable quality system and long time use without any maintenance.





# Advantages & Features

## 360° FULL DAY CHARGING

6 slim solar panels are wrapped on pole at 360 degrees, ensuring sunshine is falling on solar panel all the time of the day.



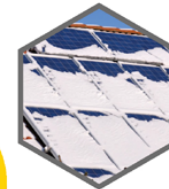
## MODULAR DESIGN

100W and 140W available, based on module design, 200W 300W 420W etc could be easily available in series connection.



## ANTI-SAND STORM

Reducing sand accumulation on surface effectively than regular solar panel. Suitable for very sandy areas like gulf countries.



## ANTI-SNOW COVERING

Preventing snow falling on solar panel in winter. ensure to generate power continuously.



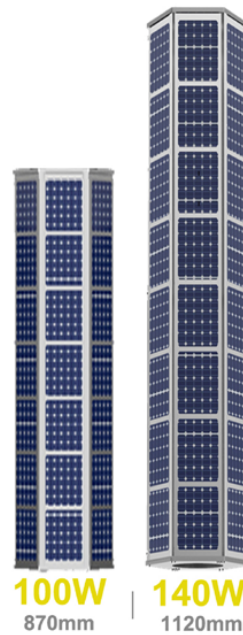
## ANTI-HAIL SMASH

Vertical design avoid the possible damage from hail by reducing the vertical area.



## EASY CLEANING

Vertical design does not need the elevator to clean but by a brush with worker standing on ground. Reducing the maintenance cost

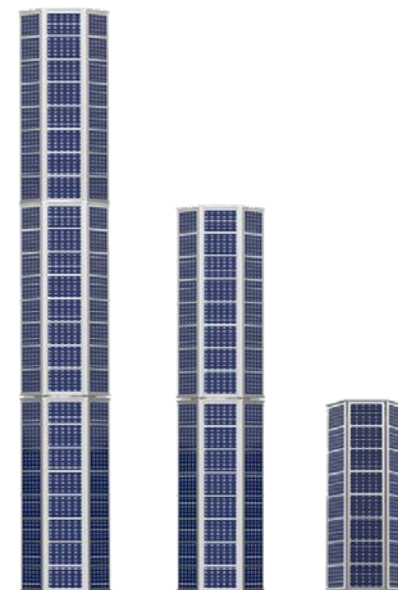






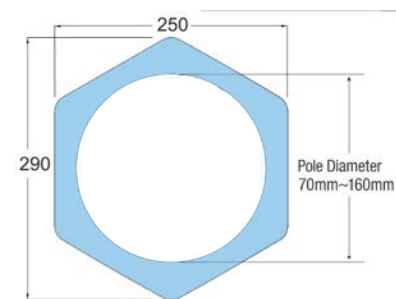
## Specification

Item number	100W	140W
Material	aluminum alloy	
Dimensions	290*258*940mm	290*258*1190mm
Pmax	100W	140W
Vmp	18V	18V
Imp	5.6A	7.8A
Solar panel	MONO crystalline	
Solar cell efficiency	21.50%	
Cable	MC4 0.7 meter	
Working temp.	-30°C~ +70°C	
Lifespan	25 years	
Weight	17.50kg	24.50kg
Warranty	5 years	5 years



Note: Lamp heads can choose SZG551 and SZG554. Details see the corresponding product specifications.

## PV Dimension





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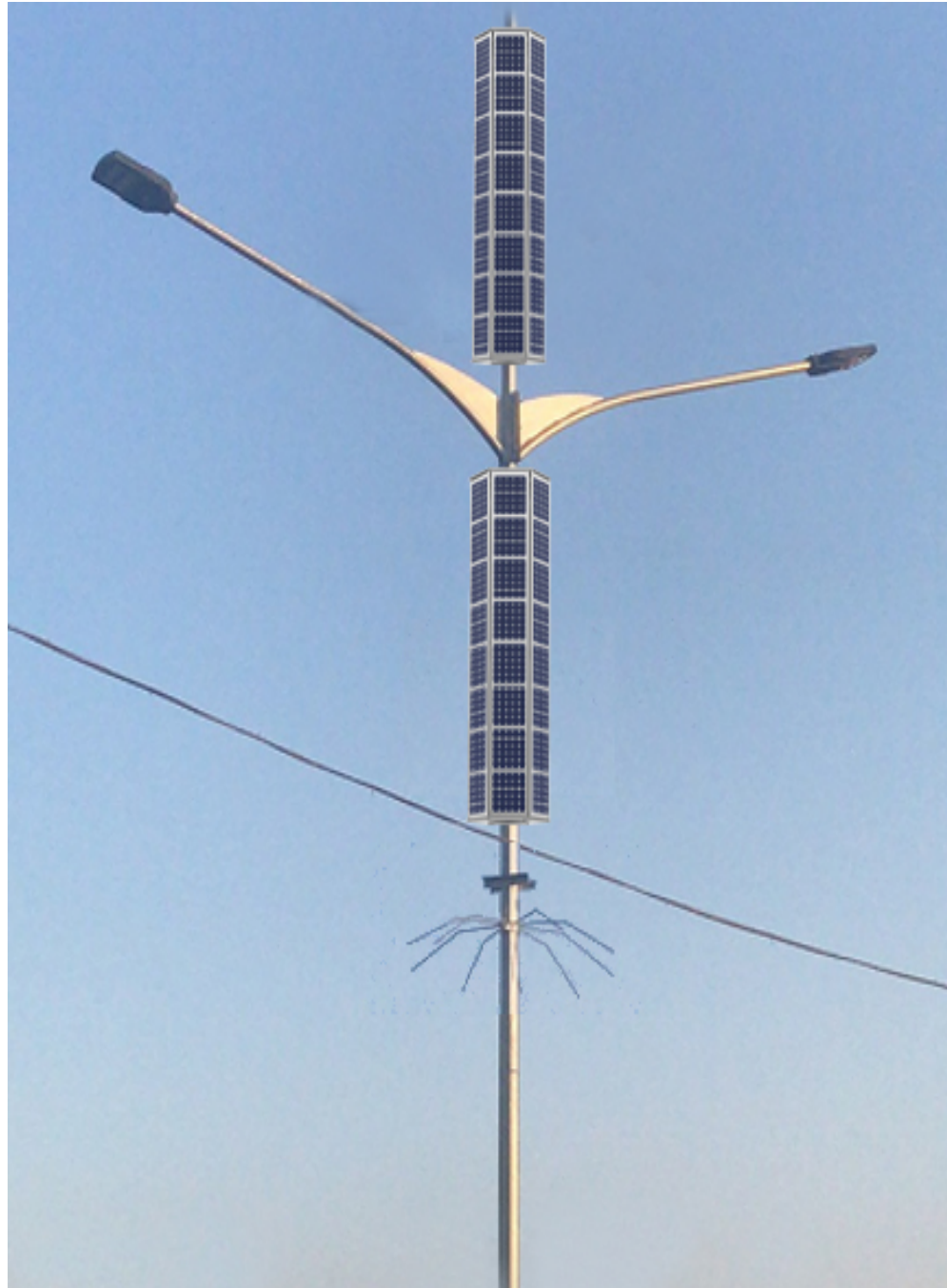






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## CONTACT US

Office: #3410, 34th Floor The citadel Tower,  
Business Bay, Dubai, UAE. P.O.Box: 119860  
T: +97143380789  
M: +971561111309  
E: BJ@GAJ.SOLAR  
[www.gaj.solar](http://www.gaj.solar)

[WWW.GAJ.SOLAR](http://WWW.GAJ.SOLAR)