

LED SOLAR STREET LIGHTING



LED solar street lighting

Our LED street lights use the power of the sun to provide high quality illumination for your roads and public areas in an environmental friendly and cost-effective way, without needing the grid access. And with the high quality, uniform lighting that LED solutions provide, make your roads a safer place.



All in one solution

G-P LLC's LED solar street light is a fully integrated street lighting solution. As opposed to common solar street lights, our LED solar street light packs the solar module, LED luminary, battery and controller all in one box. This removes the need for wiring and reduces the maintenance and mounting costs significantly.

LED lighting benefits

- Good color rendering, making the road orientation easier
- Life up to 50,000 hours, cuts the maintenance costs
- Uniform, high quality white light
- Option to dim the light when it's not needed
- Applicable in any outdoor project



Application

Together, different versions of LED street lights can cover a range of different lighting projects, from parks and sidewalks to parking, street and highway lighting. Our light design enables it to be attached to different types of lamp posts, including the ones that are previously used for a different type of lighting. The mounting height of the light is in 5-12 meters range.



Fixtures design options



Light management software

- Controlled by mobile phone app via Bluetooth connection
- Dawn/dusk timing
- Infrared motion sensor
- Wind/solar hybrid
- Camera
- Adjust light intensity
- On/off



Technical Specifications

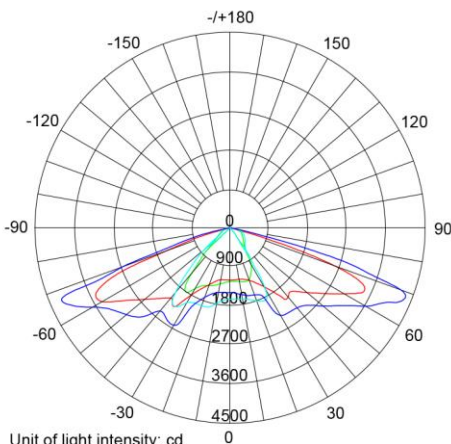
30W, 40W and 50W model comparison table:

Product Name	THK-15010-30	THK-15010-40	THK-15010-50
LED Power	30W	40W	50W
Material	Aluminum	Aluminum	Aluminum
Solar Panel	18V, 70W	18V, 60W	18V, 80W
LED Light	12V, 30W	12V, 40W	12V, 50W
Battery	Lithium Battery 30AH	Lithium Battery 30AH	Lithium Battery 36AH
Mounting Height	7-7.5m	7-7.5	9-12m
Discharge time	36-48 hours	36-48 hours	36-48 hours
Working Temperature	-30°C to +60°	-30°C to +60°	-30°C to +60°
Warranty	2 years	2 years	2 years

70W and 120W model comparison table:

Product Name	THK-15010-70	THK-15010-120
LED Power	70W	120W
Material	Aluminum	Aluminum
Solar Panel	18V, 90W	18V, 150W
LED Light	12V, 70W	12V, 120W
Battery	Lithium Battery 50AH	Lithium Battery 88AH
Mounting Height	9-12m	9-12m
Discharge time	36-48 hours	36-48 hours
Working Temperature	-30°C to +60°	-30°C to +60°
Warranty	2 years	2 years

Light distribution graph (30W, 70W)

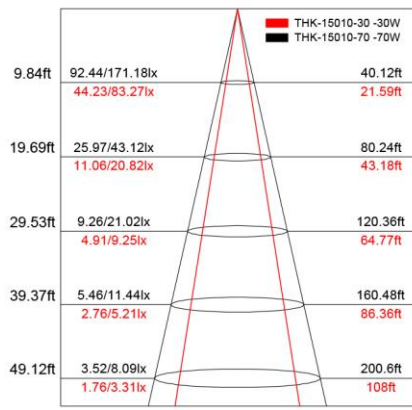


Unit of light intensity: cd

THK-15010-30 - 30W
 THK-15010-70 - 70W

Red: V 0,0° plane surface
 Blue: V 0,0° plane surface
 Green: H 0,0° plane surface
 Cyan: H 0,0° plane surface

Illumination intensity chart (30W, 70W)

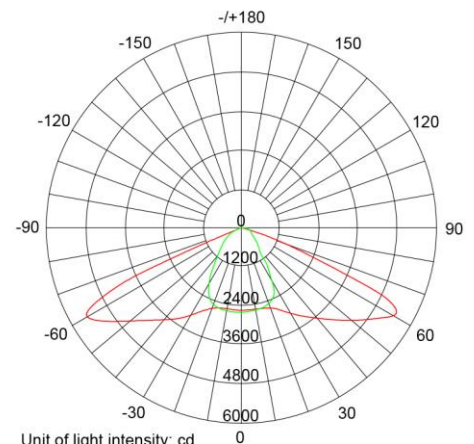


Height

Average/Max Illuminance (LUX)

Illuminance Area (Ø)

Light distribution graph (120W)



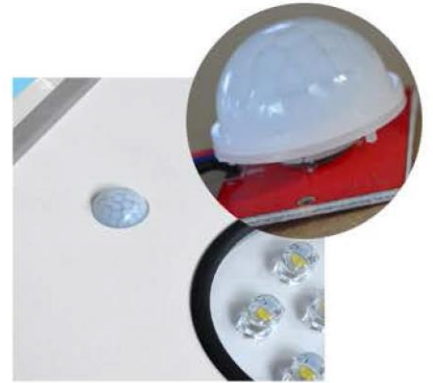
Unit of light intensity: cd

THK-15010-120 - 120W

Red: V 0,0° plane surface
 Green: H 0,0° plane surface

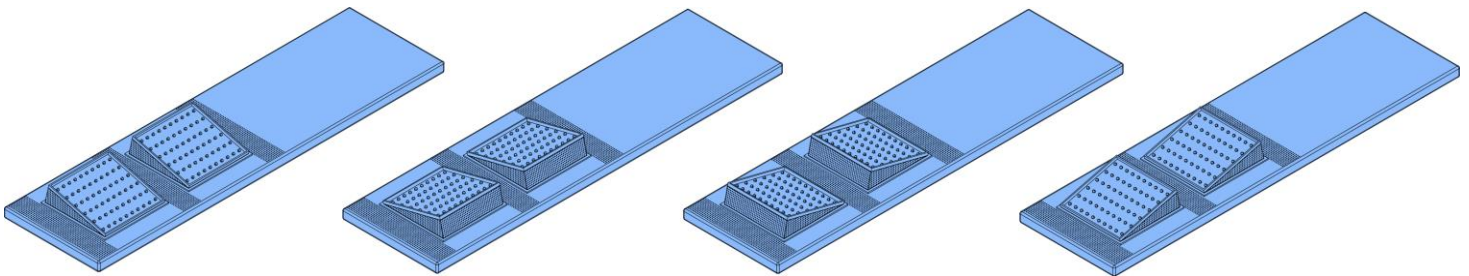
Infrared body sensor

With built-in infrared body sensor, the fixture's PV module can store energy during daylight and optimize light brightness during the night. The sensor operates automatically, allowing (as an example), for the LED lights to be at 100% while people are passing by, and then dimmed to energy saving mode when nobody is in the sensor area. Sensor functions and modes can be adjusted to client demands with remote smartphones.



LED light direction adjustment

Maximize LED solar street light efficiency with our light direction adjustment feature (optional). Being a street light, the most important factor in positioning the fixture is the light direction. This can, in large number of situations, be unfavorable for solar panel tilt and efficiency. Our light direction adjustment feature makes the PV module tilt and the LED light tilt independent from one another. This way you can always tilt your PV module to the optimal south position and position the lights in the desired direction (especially useful for roads).



Security camera feature

With **additional security camera option**, specifically designed for our LED street lights, make your parking lot, street and neighborhood a safer place. With easy to mount system and included camera control software, it's never been easier to setup a security system that will cover a large outdoor area.

