

SQUARE SOLAR LIGHTING POLE



High Brightness
Up to 160lm/W



Anti-BlackOut
without Worry



Biodiversity
Protection



IP65
Waterproof



Hybrid function
(Solar & Grid)



Remote
Control

SOLAR LIGHTING POLE

Our Solar Lighting Poles feature robust die-cast aluminum Or Galvanized Steel housings and a sleek, streamlined design, engineered for high-end projects. They boast high-power solar panels, large-capacity batteries, and an MPPT controller for improved charging efficiency. A remote control ensures easy operation, while a 5-year warranty attests to their exceptional quality and durability.

Ideal for lighting parks, gardens, squares, walkways, and bike paths, these lights are perfect for premium projects and professional Applications. Choose our solar garden lights for a reliable, high-performance, and attractive outdoor lighting solution.



Key Components & Features

Square PV Module

Separate solar module design, easier and safer for transportation and installation as well as maintenance.



High Brightness LED

Up to 180lm/W high brightness LED efficiency providing excellence of energy saving performance with less power consumption.



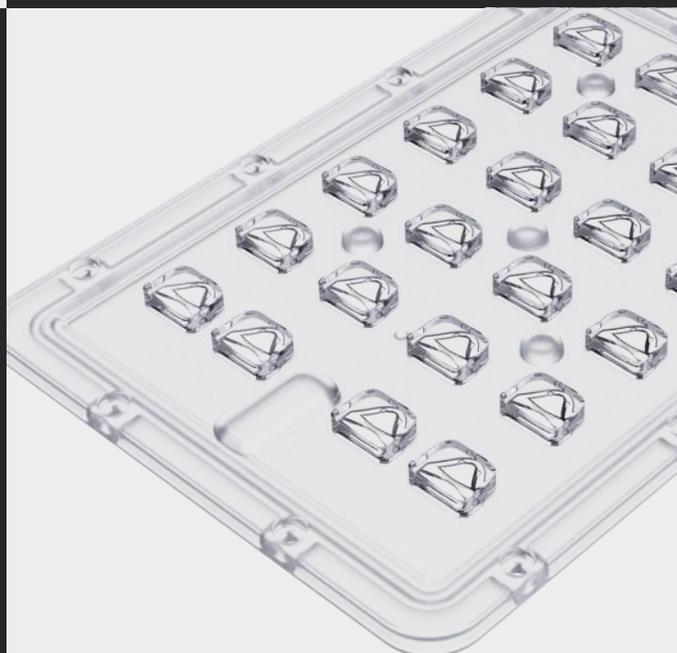
LiFePO4 Battery Module

The well-sealed IP66 lithium battery ensures the stable power supply to the solar system with 3 days backup and lifetime is more than 10 years.



LED Optics

The advanced optical lenses is optimizing the distribution of light to provide more smooth lighting performance, improving the utilization rate of light energy, reduce energy consumption.

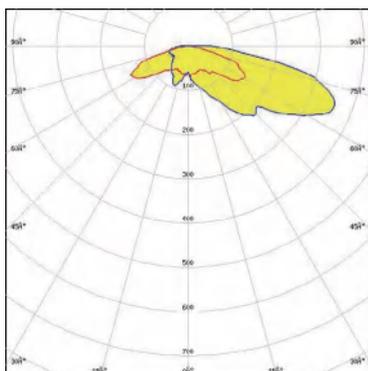


Ultra Slim LED Optic (Optional)

Square street lights feature advanced LEDIL modular lenses, empowering designers to select from a wide range of beam angles for different lighting scenarios. This flexibility ensures optimal light distribution, significantly improving energy efficiency and overall luminous performance. By precisely directing light, Square minimizes dark zones, reduces light waste, and maximizes uniformity on road surfaces. The modular lens system not only enhances visual comfort and safety but also simplifies the planning process for engineers and lighting designers. Whether it's a city boulevard, residential road, or commercial pathway, Square delivers precision lighting that is both intelligent and sustainable. Experience next-generation illumination with design freedom, high efficiency, and outstanding optical control — all in one powerful solution.

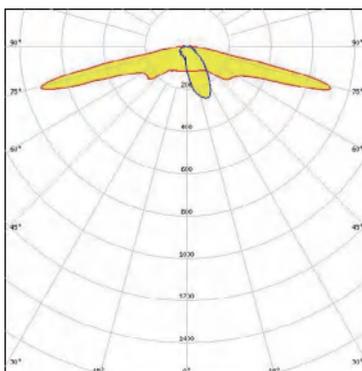


Light Distribution Curve



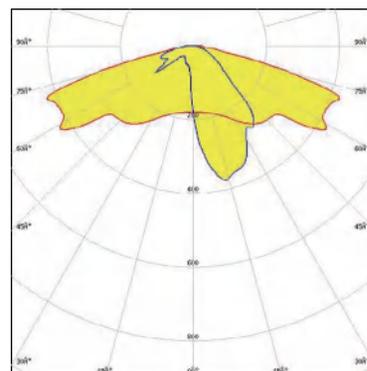
CS19157

Wide IESNA Type IV beam with forward-throw beam for wide area lighting like car parks. Variant with beam direction rotated 90° and made from PC.



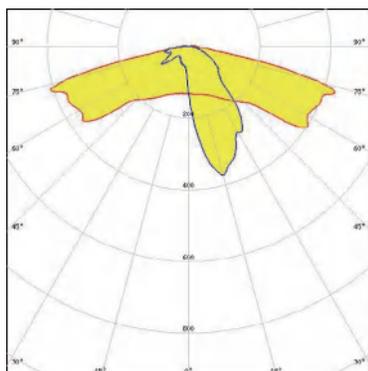
CS15870

IESNA Type II (medium) beam for long pole distances and up to 8x mounting height. Suitable for European P-class and pathway lighting.



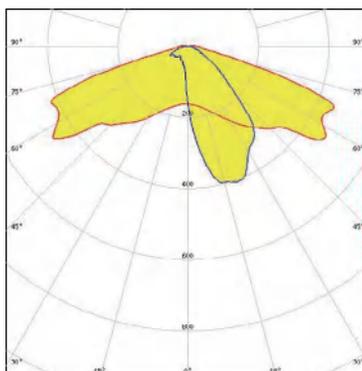
CS14055

IESNA Type II (medium) beam applicable for European P-class standard pedestrian lighting and M-class roads



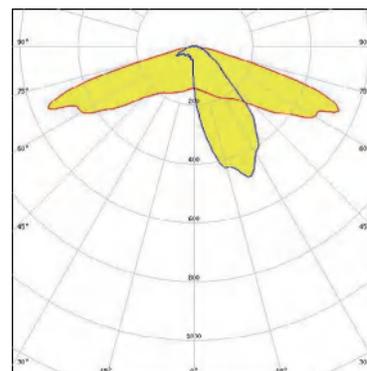
CS15066

IESNA Type II (medium) beam applicable for European P-class standard pedestrian lighting and M-class roads. Variant made from PC.



CS15363

IESNA Type II (medium) beam with minimized house side backlight.



CS15886

IESNA Type II (medium) beam with minimized house side backlight. Variant with beam direction rotated 90°.



Lithium Battery Cylinder

Built into Poles | Outside of Poles



Enhanced Safety:

The design, integrated into the light pole, effectively protects the battery from external environmental impacts such as extreme weather, theft, and vandalism. This ensures the battery's safety and longevity.



Space Saving:

Utilizing the internal space of the light pole for battery installation avoids the issue of traditional external battery boxes occupying ground space, keeping the installation area clean and neat.



Efficient Heat Dissipation:

The environment inside the light pole typically offers excellent heat dissipation conditions, helping maintain the battery at an optimal working temperature, thereby extending battery life and enhancing system performance.



Simplified Installation and Maintenance:

The integrated battery design makes the system more unified, simplifying and speeding up the installation and maintenance processes, thus reducing labor and time costs.



Aesthetic Uniformity:

Integrating the battery inside the light pole results in a cleaner, more stylish appearance for the entire solar street light system, aligning with the aesthetic standards of modern cities and high-end communities.



High-Performance Energy Storage:

Utilizing high-quality lithium batteries provides higher energy density and longer lifespan, ensuring street lights can operate normally even on cloudy days and at night.

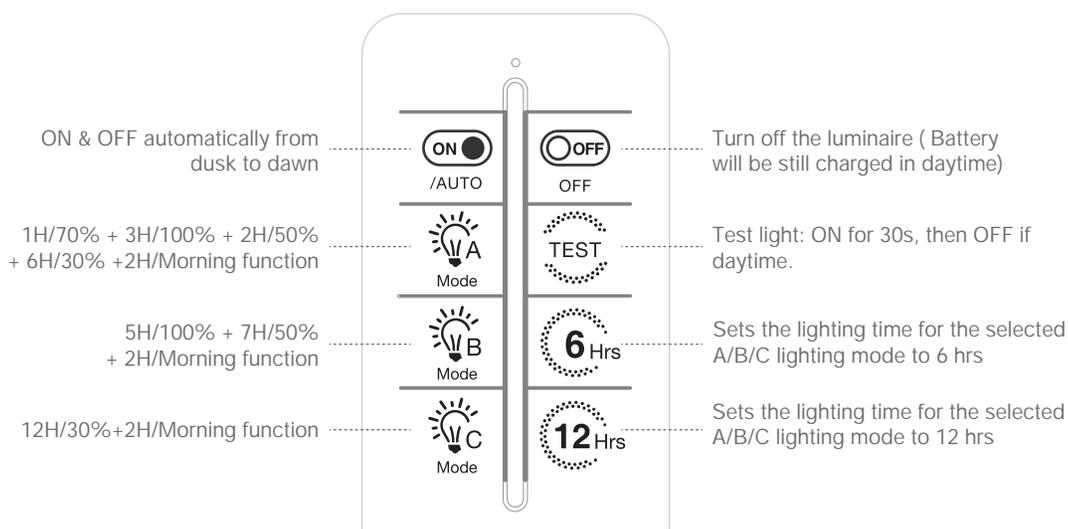


Working Mode

In addition to automatic switching on and off, you have the possibility of setting different lighting program easily by the simple remote control according to the needs of the project. Also you can set the light to work for 6 hours or 12 hours.

Mode A	1H/70%	3H/100%	2H/50%	6H/30% +2H/Morning function
Mode B	5H/100%			7H/50% + 2H/Morning function
Mode C	12H/30%+2H/Morning function			

Remote Control



Note :

1. Turn on switch button in the solar light before use.
2. Default lighting mode: A.
3. Modes A/B/C programs could be changed prior to notice, pls be subject to the sticker at backside of remote.
4. Press OFF to turn off light (Charging will be still functional), Press ON restores last setted mode.
5. 6Hrs/12Hrs : Set duration for current mode (A/B/C). Press mode button (A/B/C) again to reset to default time.

Example

$$\text{Mode A} = 1\text{H}/70\% + 3\text{H}/100\% + 2\text{H}/50\% + 6\text{H}/30\% + 2\text{H}/\text{Morning function}$$

$$\text{Mode A} + 6\text{Hrs} = 1\text{H}/70\% + 3\text{H}/100\% + 2\text{H}/50\%$$

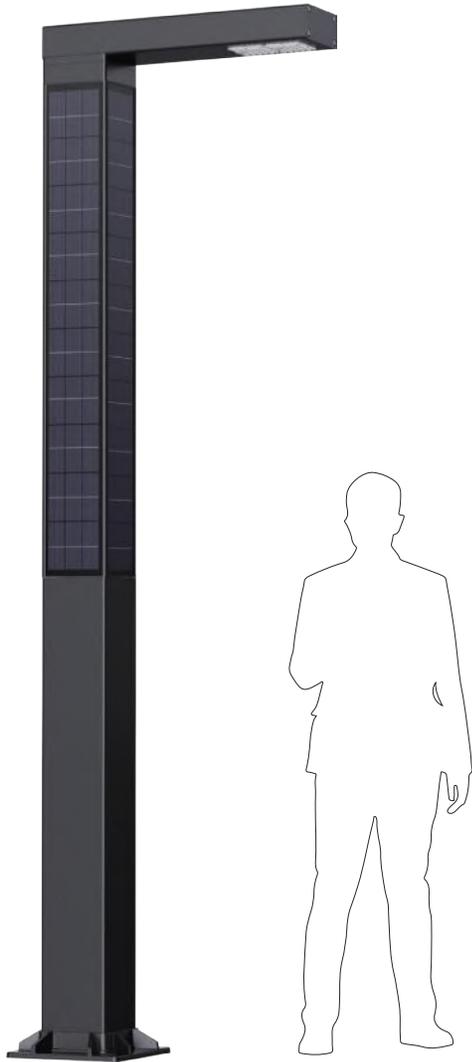
$$\text{Mode A} + 12\text{Hrs} = 1\text{H}/70\% + 3\text{H}/100\% + 2\text{H}/50\% + 6\text{H}/30\%$$

Applications

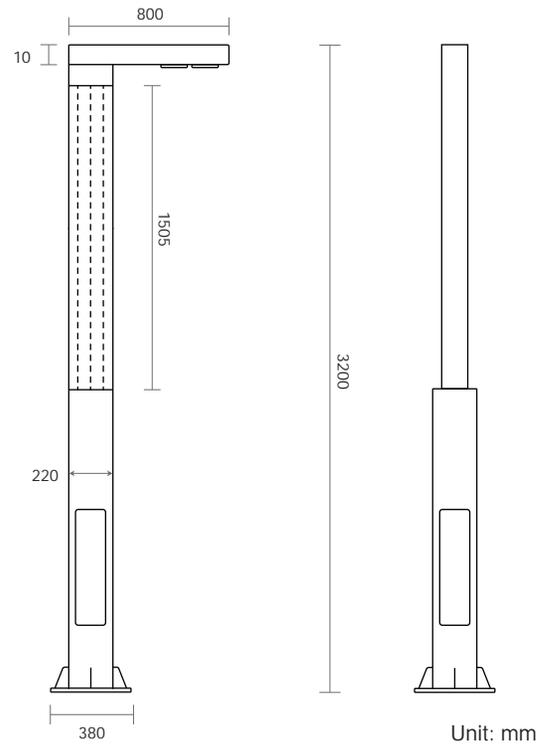
- 1 Street, Road
- 2 Bike Track, Pathway
- 3 Residential, Villa
- 4 Public Area, Park, Car Parking Lot
- 5 Jetties, Coastal, Marina, Dock
- 6 Farms, Fences, etc



TL-3201L



Dimension

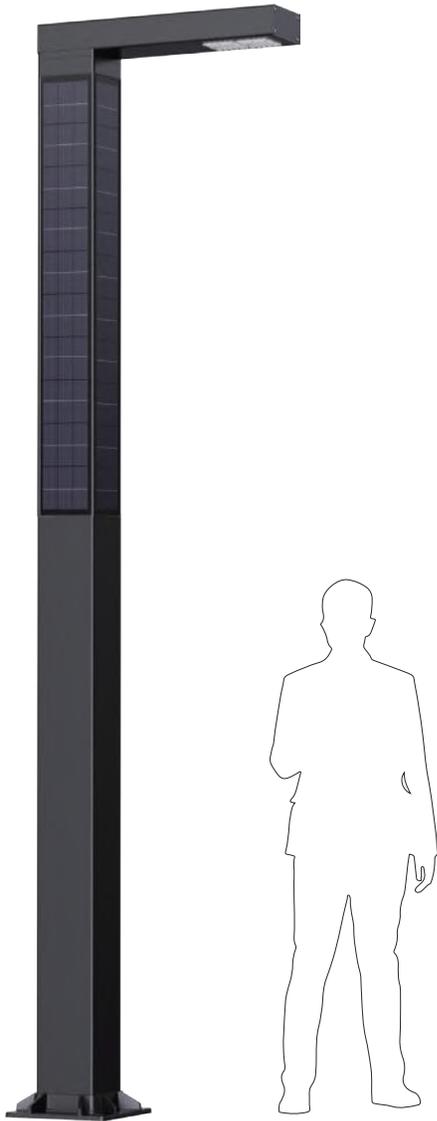


MAIN PARAMETERS

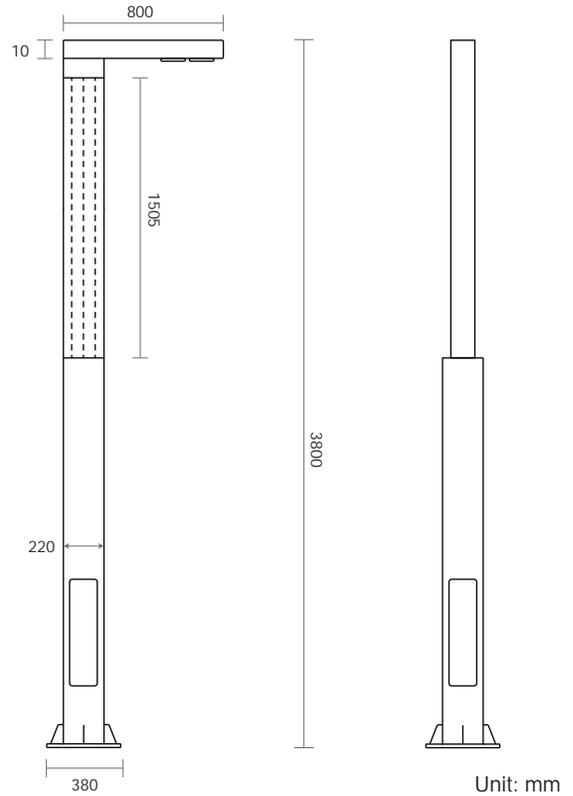
Model Name	TL-3201L	LiFePO4 Battery	12.8V 36AH
LED Power	20Watts	Battery lifetime	4000 cycles @ D.O.D 50%
Luminous Flux	3,600lm	Charge mode	C.C + C.V
LED Chips	Lumileds SMD5050	Battery Box Material	Aluminium Die Casting / Galvanized Steel
LED Quantity	12PCS	Solar Controller	High Efficiency 97% MPPT
Beam Angle	Type II / III etc optional	Pole height	3.2 meters
CRI	>70	Pole material	Aluminum / Galvanized Steel
CCT	2700K~6500K	Pole wall thickness	4mm
Light Power	10~20W adjustable	Pole Color	Grey / Black / Customized
Solar Panel	246W 18V MONO	IP & IK Rate	IP66 IK10
Solar Panel Efficiency	23.5%	Working Temp.	-25°C~+65°C
Mechanical Load	Front 5400PA/Back 2400PA	Fixture Material	Aluminium Die Casting / Galvanized Steel
Connector	Universal MC4 plugs	Fixture Color	Gray / Black
Tempered Glass	3.2mm Permeability Coated	Warranty	5 Years



TL-3801L



Dimension

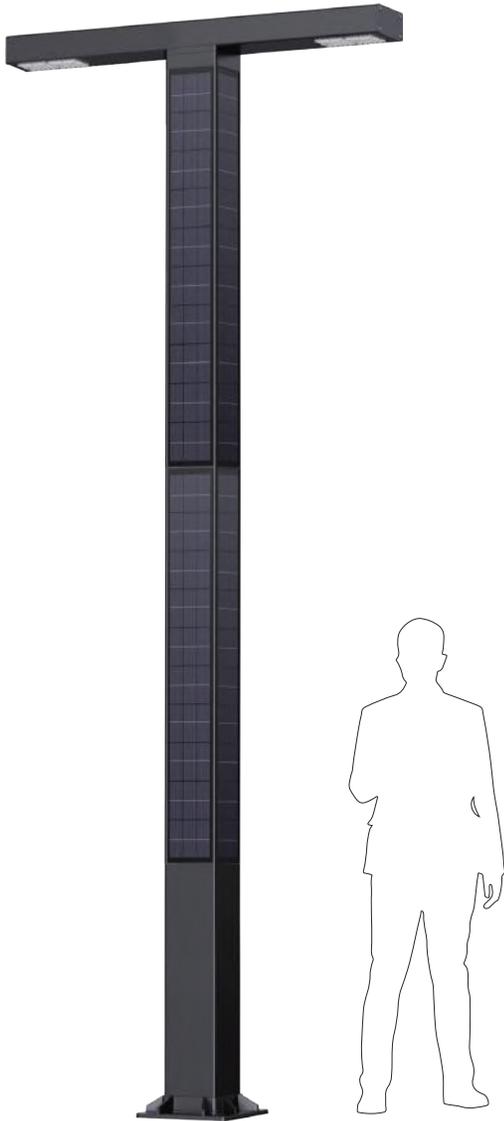


MAIN PARAMETERS

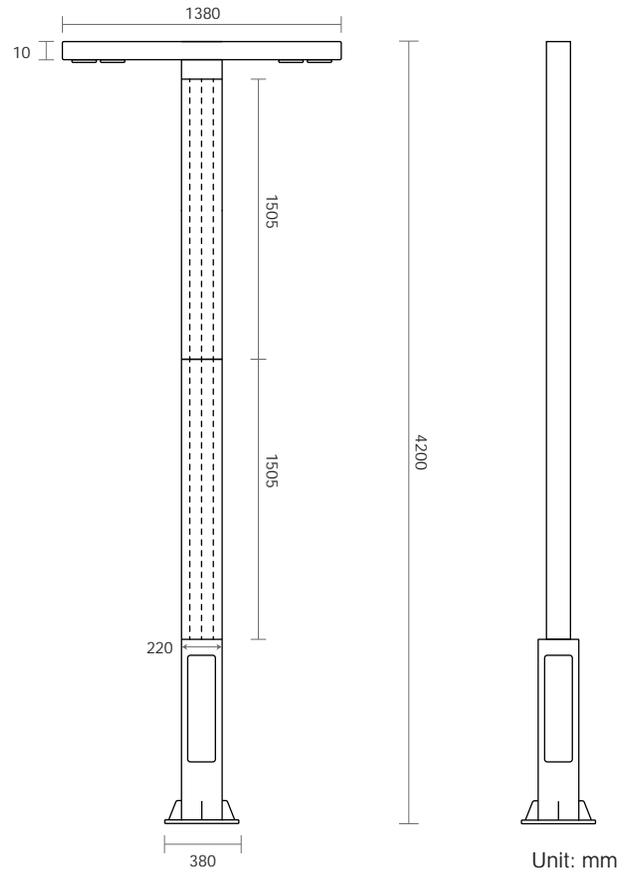
Model Name	TL-3801L	LiFePO4 Battery	12.8V 48AH
LED Power	30Watts	Battery lifetime	4000 cycles @ D.O.D 50%
Luminous Flux	5,400lm	Charge mode	C.C + C.V
LED Chips	Lumileds SMD5050	Battery Box Material	Aluminium Die Casting / Galvanized Steel
LED Quantity	18PCS	Solar Controller	High Efficiency 97% MPPT
Beam Angle	Type II / III etc optional	Pole height	3.8 meters
CRI	>70	Pole material	Aluminum / Galvanized Steel
CCT	2700K~6500K	Pole wall thickness	4mm
Light Power	10~30W adjustable	Pole Color	Grey / Black / Customized
Solar Panel	246W 18V MONO	IP & IK Rate	IP66 IK10
Solar Panel Efficiency	23.5%	Working Temp.	-25°C~+65°C
Mechanical Load	Front 5400PA/Back 2400PA	Fixture Material	Aluminium Die Casting / Galvanized Steel
Connector	Universal MC4 plugs	Fixture Color	Gray / Black
Tempered Glass	3.2mm Permeability Coated	Warranty	5 Years



TL-4202L



Dimension

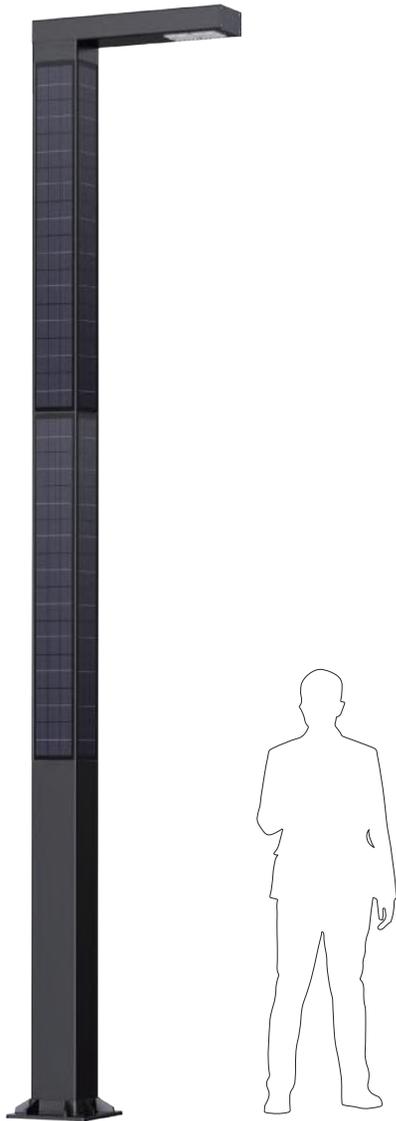


MAIN PARAMETERS

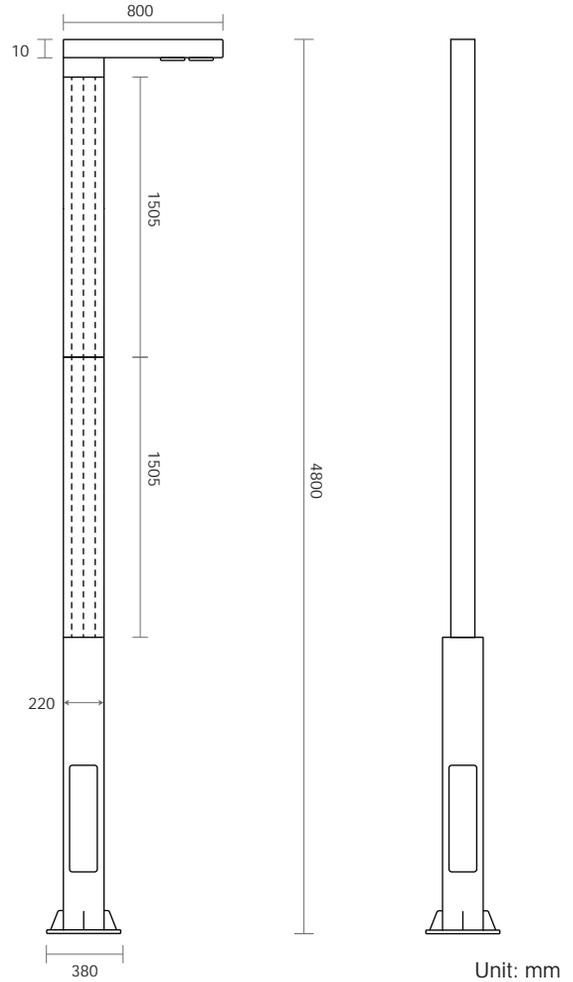
Model Name	TL-4202L	LiFePO4 Battery	12.8V 60AH
LED Power	20Watts *2PCS	Battery lifetime	4000 cycles @ D.O.D 50%
Luminous Flux	3,600lm *2PCS	Charge mode	C.C + C.V
LED Chips	Lumileds SMD5050	Battery Box Material	Aluminium Die Casting / Galvanized Steel
LED Quantity	12PCS *2PCS	Solar Controller	High Efficiency 97% MPPT
Beam Angle	Type II / III etc optional	Pole height	4.2 meters
CRI	>70	Pole material	Aluminum / Galvanized Steel
CCT	2700K~6500K	Pole wall thickness	4mm
Light Power	10~20W adjustable	Pole Color	Grey / Black / Customized
Solar Panel	335W 18V MONO	IP & IK Rate	IP66 IK10
Solar Panel Efficiency	23.5%	Working Temp.	-25°C~+65°C
Mechanical Load	Front 5400PA/Back 2400PA	Fixture Material	Aluminium Die Casting / Galvanized Steel
Connector	Universal MC4 plugs	Fixture Color	Gray / Black
Tempered Glass	3.2mm Permeability Coated	Warranty	5 Years



TL-4801L



Dimension



MAIN PARAMETERS

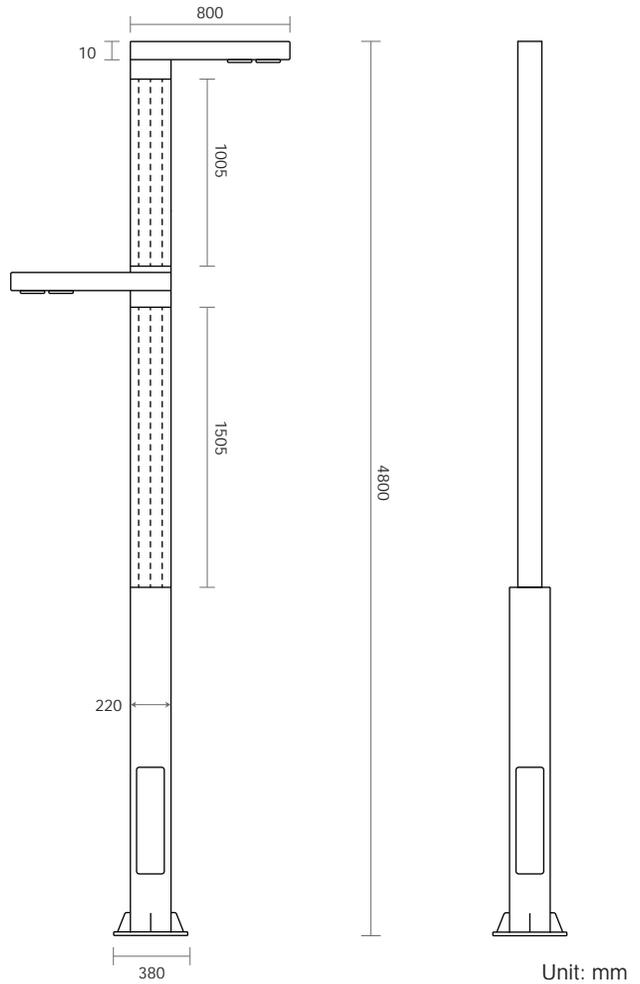
Model Name	TL-4801L	LiFePO4 Battery	12.8V 60AH
LED Power	50Watts	Battery lifetime	4000 cycles @ D.O.D 50%
Luminous Flux	9,000lm	Charge mode	C.C + C.V
LED Chips	Lumileds SMD5050	Battery Box Material	Aluminium Die Casting / Galvanized Steel
LED Quantity	30PCS	Solar Controller	High Efficiency 97% MPPT
Beam Angle	Type II / III etc optional	Pole height	4.8 meters
CRI	>70	Pole material	Aluminum / Galvanized Steel
CCT	2700K~6500K	Pole wall thickness	4mm
Light Power	10~50W adjustable	Pole Color	Grey / Black / Customized
Solar Panel	306W 18V MONO	IP & IK Rate	IP66 IK10
Solar Panel Efficiency	23.5%	Working Temp.	-25°C~+65°C
Mechanical Load	Front 5400PA/Back 2400PA	Fixture Material	Aluminium Die Casting / Galvanized Steel
Connector	Universal MC4 plugs	Fixture Color	Gray / Black
Tempered Glass	3.2mm Permeability Coated	Warranty	5 Years



TL-4802X



Dimension

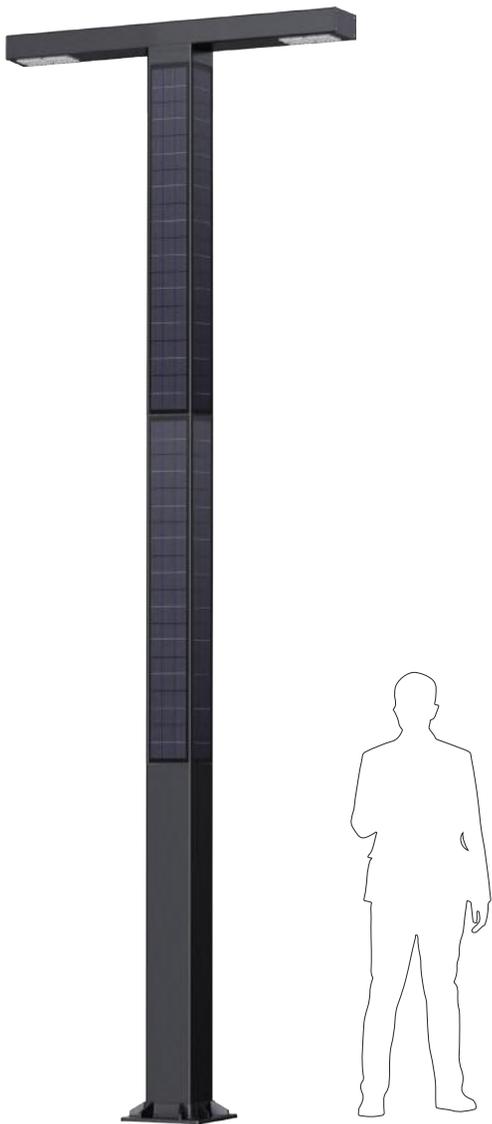


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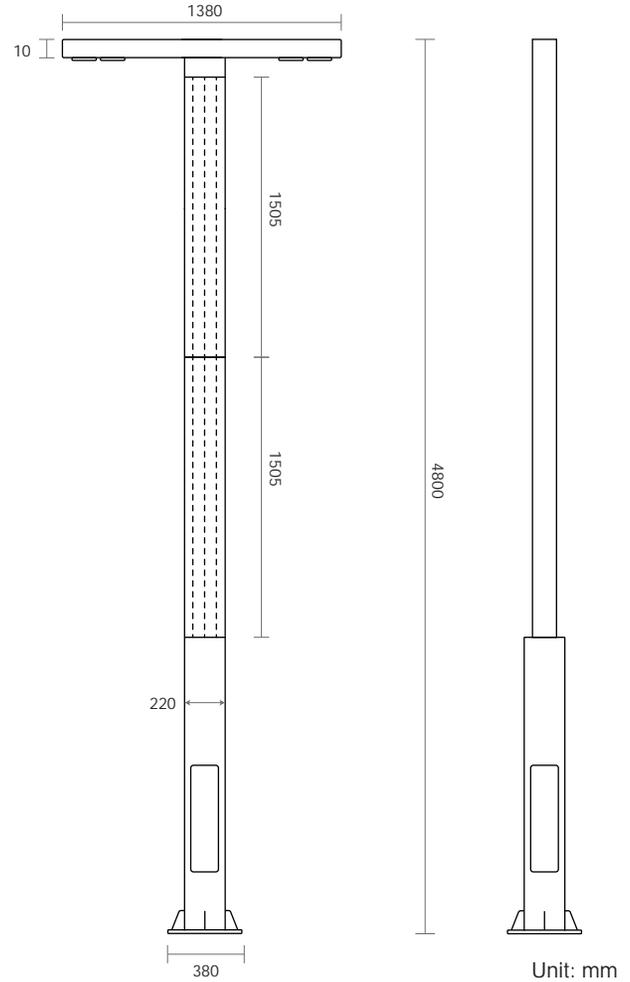
Model Name	TL-4802X	LiFePO4 Battery	12.8V 66AH
LED Power	25Watts *2PCS	Battery lifetime	4000 cycles @ D.O.D 50%
Luminous Flux	4,500lm *2PCS	Charge mode	C.C + C.V
LED Chips	Lumileds SMD5050	Battery Box Material	Aluminium Die Casting / Galvanized Steel
LED Quantity	15PCS *2PCS	Solar Controller	High Efficiency 97% MPPT
Beam Angle	Type II / III etc optional	Pole height	4.8 meters
CRI	>70	Pole material	Aluminum / Galvanized Steel
CCT	2700K~6500K	Pole wall thickness	4mm
Light Power	10~25W adjustable	Pole Color	Grey / Black / Customized
Solar Panel	412W 18V MONO	IP & IK Rate	IP66 IK10
Solar Panel Efficiency	23.5%	Working Temp.	-25°C~+65°C
Mechanical Load	Front 5400PA/Back 2400PA	Fixture Material	Aluminium Die Casting / Galvanized Steel
Connector	Universal MC4 plugs	Fixture Color	Gray / Black
Tempered Glass	3.2mm Permeability Coated	Warranty	5 Years



TL-4802L



Dimension

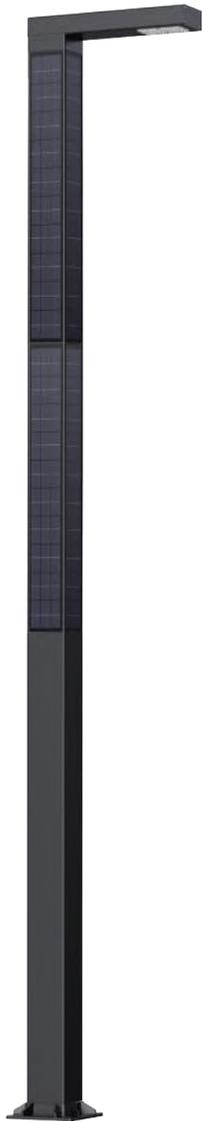


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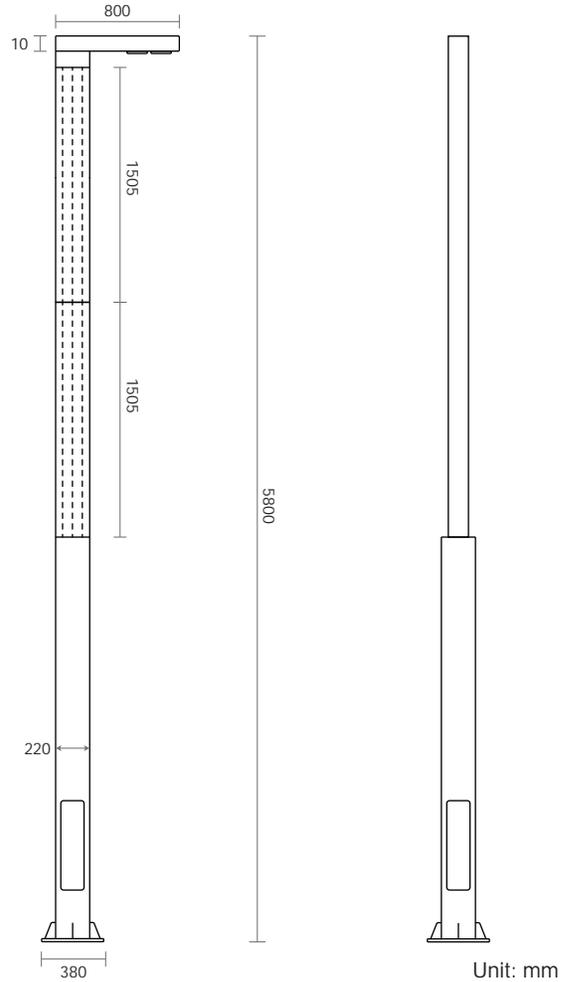
Model Name	TL-4802L	LiFePO4 Battery	12.8V 66AH
LED Power	30Watts *2PCS	Battery lifetime	4000 cycles @ D.O.D 50%
Luminous Flux	5,400lm *2PCS	Charge mode	C.C + C.V
LED Chips	Lumileds SMD5050	Battery Box Material	Aluminium Die Casting / Galvanized Steel
LED Quantity	18PCS *2PCS	Solar Controller	High Efficiency 97% MPPT
Beam Angle	Type II / III etc optional	Pole height	4.8 meters
CRI	>70	Pole material	Aluminum / Galvanized Steel
CCT	2700K~6500K	Pole wall thickness	4mm
Light Power	10~30W adjustable	Pole Color	Grey / Black / Customized
Solar Panel	495W 18V MONO	IP & IK Rate	IP66 IK10
Solar Panel Efficiency	23.5%	Working Temp.	-25°C~+65°C
Mechanical Load	Front 5400PA/Back 2400PA	Fixture Material	Aluminium Die Casting / Galvanized Steel
Connector	Universal MC4 plugs	Fixture Color	Gray / Black
Tempered Glass	3.2mm Permeability Coated	Warranty	5 Years



TL-5801S



Dimension



MAIN PARAMETERS

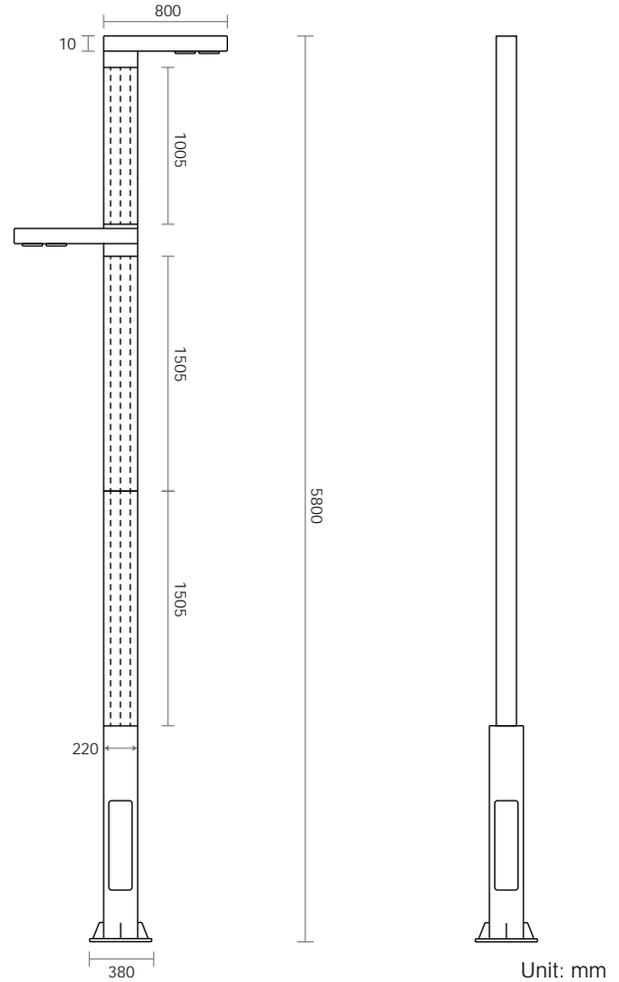
Model Name	TL-5801S	LiFePO4 Battery	25.6V 36AH
LED Power	80Watts	Battery lifetime	4000 cycles @ D.O.D 50%
Luminous Flux	14,400lm	Charge mode	C.C + C.V
LED Chips	Lumileds SMD5050	Battery Box Material	Aluminium Die Casting / Galvanized Steel
LED Quantity	48PCS	Solar Controller	High Efficiency 97% MPPT
Beam Angle	Type II / III etc optional	Pole height	5.8 meters
CRI	>70	Pole material	Aluminum/ Galvanized Steel
CCT	2700K~6500K	Pole wall thickness	4mm
Light Power	10~80W adjustable	Pole Color	Grey / Black / Customized
Solar Panel	466W 36V MONO	IP & IK Rate	IP66 IK10
Solar Panel Efficiency	23.5%	Working Temp.	-25°C~+65°C
Mechanical Load	Front 5400PA/Back 2400PA	Fixture Material	Aluminium Die Casting/ Galvanized Steel
Connector	Universal MC4 plugs	Fixture Color	Gray / Black
Tempered Glass	3.2mm Permeability Coated	Warranty	5 Years



TL-5802X



Dimension

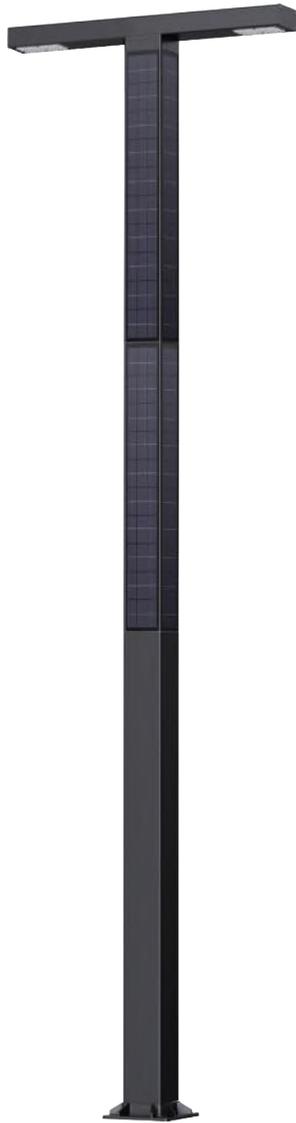


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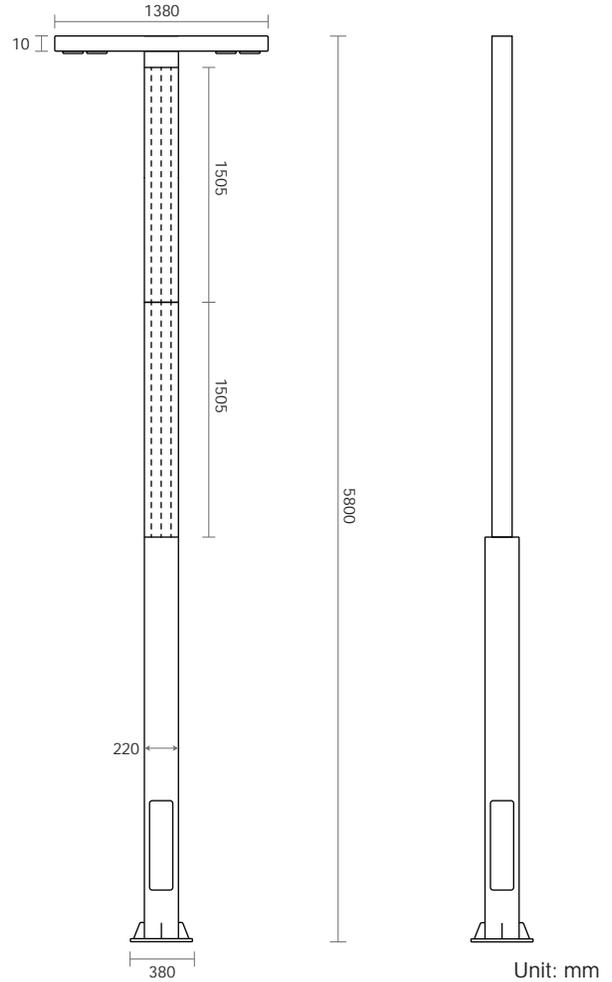
Model Name	TL-5802X	LiFePO4 Battery	25.6V 48AH
LED Power	50Watts *2PCS	Battery lifetime	4000 cycles @ D.O.D 50%
Luminous Flux	9,000lm *2PCS	Charge mode	C.C + C.V
LED Chips	Lumileds SMD5050	Battery Box Material	Aluminium Die Casting/ Galvanized Steel
LED Quantity	30PCS *2PCS	Solar Controller	High Efficiency 97% MPPT
Beam Angle	Type II / III etc optional	Pole height	5.8 meters
CRI	>70	Pole material	Aluminum/ Galvanized Steel
CCT	2700K~6500K	Pole wall thickness	4mm
Light Power	10~50W adjustable	Pole Color	Grey / Black / Customized
Solar Panel	552W 36V MONO	IP & IK Rate	IP66 IK10
Solar Panel Efficiency	23.5%	Working Temp.	-25°C~+65°C
Mechanical Load	Front 5400PA/Back 2400PA	Fixture Material	Aluminium Die Casting/ Galvanized Steel
Connector	Universal MC4 plugs	Fixture Color	Gray / Black
Tempered Glass	3.2mm Permeability Coated	Warranty	5 Years



TL-5802L



Dimension



MAIN PARAMETERS

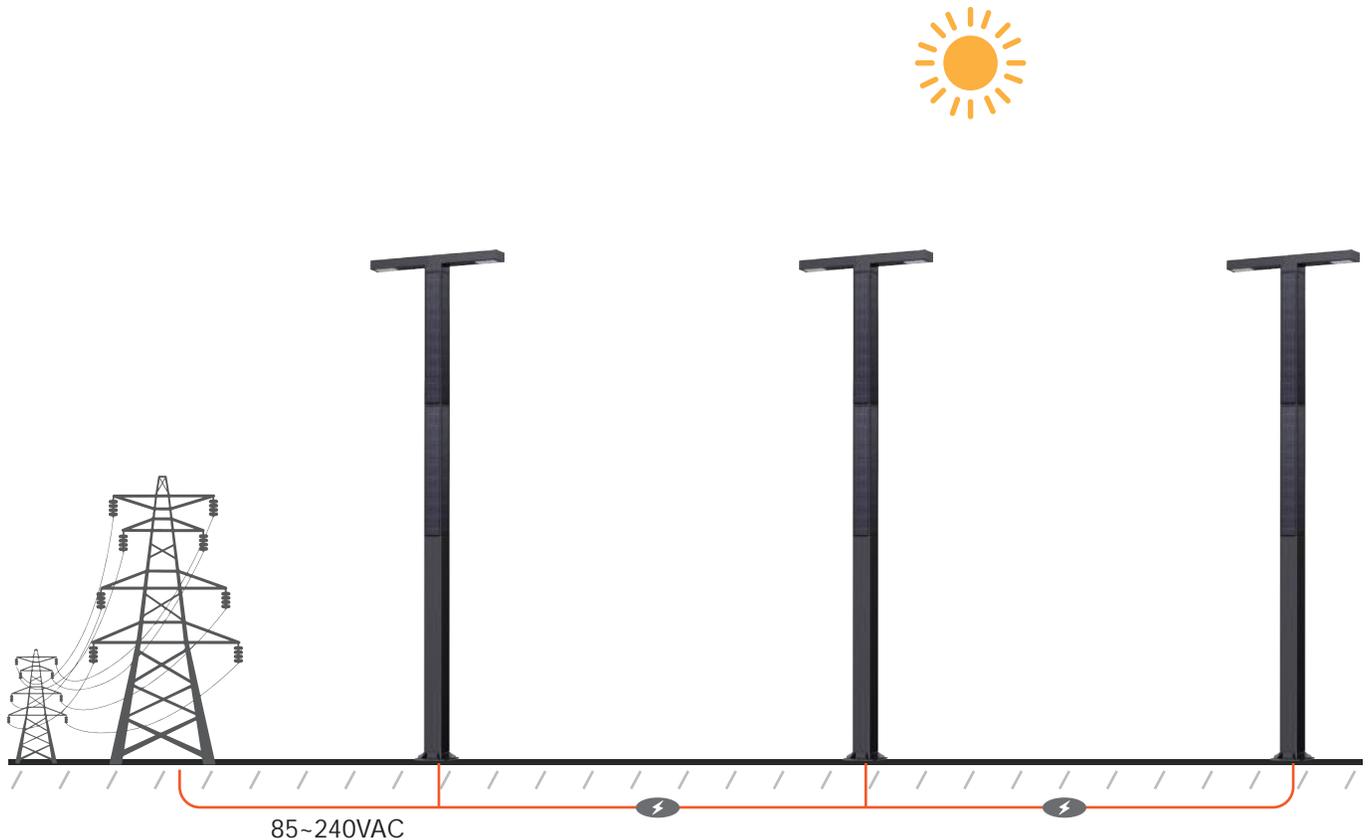
Model Name	TL-5802L	LiFePO4 Battery	25.6V 36AH
LED Power	40Watts *2PCS	Battery lifetime	4000 cycles @ D.O.D 50%
Luminous Flux	7,200lm *2PCS	Charge mode	C.C + C.V
LED Chips	Lumileds SMD5050	Battery Box Material	Aluminium Die Casting/ Galvanized Steel
LED Quantity	24PCS *2PCS	Solar Controller	High Efficiency 97% MPPT
Beam Angle	Type II / III etc optional	Pole height	5.8 meters
CRI	>70	Pole material	Aluminum/ Galvanized Steel
CCT	2700K~6500K	Pole wall thickness	4mm
Light Power	10~40W adjustable	Pole Color	Grey / Black / Customized
Solar Panel	495W 36V MONO	IP & IK Rate	IP66 IK10
Solar Panel Efficiency	23.5%	Working Temp.	-25°C~+65°C
Mechanical Load	Front 5400PA/Back 2400PA	Fixture Material	Aluminium Die Casting/ Galvanized Steel
Connector	Universal MC4 plugs	Fixture Color	Gray / Black
Tempered Glass	3.2mm Permeability Coated	Warranty	5 Years



Hybrid System with 220V Grid Supply (Optional)

The solar street light with AC85~240VAC as backup power supply as backup is designed to ensure the solar lights more smarter and more reliable in very challenge conditions especially the area where the solar radition is not sufficienct during some months or in case of sudden bad weather for a few days.

The control system will automatically switch to AC power supply when the battery voltgae is dropping a 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 ensure the non-stop & reliable lighting service without worrying blackout at all during the whole year.



FEATURES



High reliability

Dual power supply guarantee, no risk of lighting interruption.



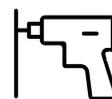
Energy saving

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



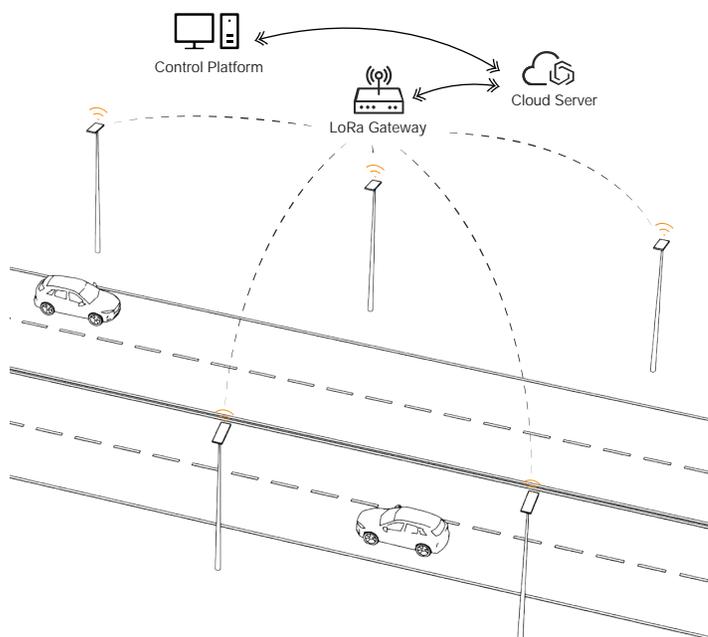
Intelligent monitoring



SMART CONTROL SOLUTION

Advantages

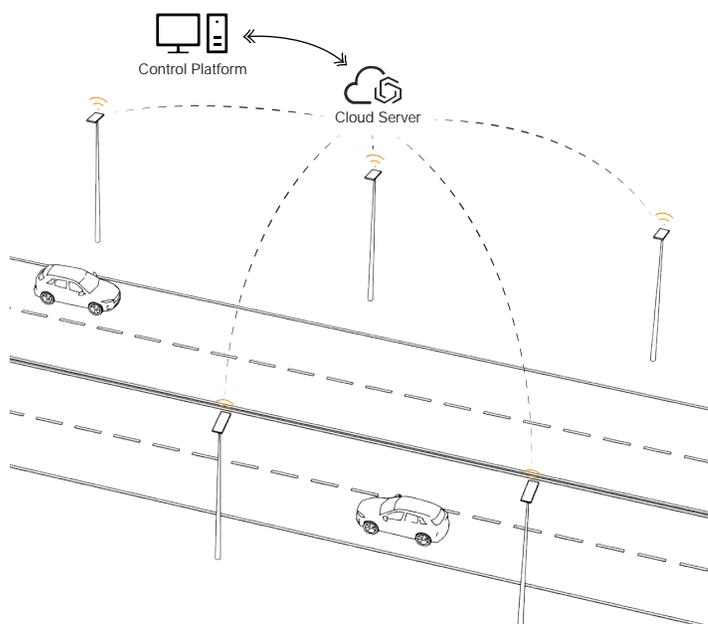
Ultra-low power consumption, ultra-long distance



SMART CONTROL SOLUTION

Advantages

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



More Designs

Height:

3200mm

3800mm

4200mm

4800mm

5800mm

Custimzied

