HIGHLIGHT ML-AUR

Specifications

Why us?

Innovative Technology

High-efficiency solar and advanced LEDs deliver superior performance, long life, and maximum ROI.

Photometric

We conduct photometric measurements on all our products to ensure optimal performance and compliance with industry standards

Versatile Lightning

We designs and install solar-powered lightning systems tailored for all kind of locations such as streets, parks, pathways, homes, etc.

Global Reach

Worldwide success proves our adaptability and regulatory expertise.

Sustainable Savings

These solutions enhance safety, promote sustainability and providing significant energy and cost saving.

Warranty

SolarPath is dedicated to delivering architectural and commercial-grade solar lighting that can be customized to meet specific client requests, both in technical specifications and aesthetic design, ensuring a perfect fit for a diverse range of needs.

HIGHLIGHT ML-AUR

The design of solar street light / courtyard light absorbs energy from the universe, and combines it with high efficiency solar panel, LEDs, and Lithium battery. It adopts advantage technics such as micro-controller, human infrared sensor and so on and combines with integrated design to achieve multiple features such as low power consumption but high brightness, long lifespan and maintenance free, meanwhile with waterproof function and great thermal dissipation. The intelligent control can be reprogrammed from the ground with an infrared before and after install. It is one of our great innovation patented products.

Technical specification

Solar Module Parameters	Type	High-efficiency Monocrystalline Silicon
	Power	200W
Solar Charge Controller	MPPT (Maximum Power Point Tracking), infrared solar charging controller	
Battery	LifePO4	Up to 54AH
LED Light Parameters	Light Source Power	Up to 180W (Up to 34,000 lm)
	CCT (Correlated color temperature)	2,500K-6,000K
	CRI (Color rendering index)	≥78
Control Modes	Manual ON/OFF / Automatically ON/OFF / Time Control	
Working Mode	Depend on installation area, can be programed with remote control	
IP Rating	IP68	
Motion Sensor	PIR/ Microwave Optional	
Material	Aluminum Die-casting	
Extended Application	Wireless Remote controller	

Key Features

Adjustable LED Module
The angle of LED module is adjustable accord- ing to road width with better lighting perfor- mance, increasing the lighting utilization and less lighting waste.

LiFePo4 Battery
Grade A+ Battery cell with high uniformity of internal resistance and charging and discharg- ing.

Programmable by Remote
The lighting program can be modified anytime by remote control according to customers' requirement.

High Brightness LED
High brightness led enhances visibility and safety while providing energy-efficient

MPPT Charge Controller
maximizes energy efficiency ensuring longer battery life and consistent illumination without blackout.

Robust Design
Robust design of light fixture provides superior durability, corrosion resistance, and heat dissipation.

High-Efficiency Solar Panel
with Exceptional Craftsmanship

The solar panel integrates cutting-edge technology with meticulous craftsmanship, delivering high conversion efficiency. Its innovative design ensures maximum energy generation, even under less-than-ideal sunlight conditions, making it a top-tier solution for sustainable lighting needs.

Adjustable LED Module

The angle of LED module is adjustable according to road width with better lighting performance, increasing the lighting utilization and less lighting waste.

Die-Cast Aluminum Housing

The lamp body is constructed from premium die-cast aluminum, blending sleek aesthetics with uncompromising strength. This design not only enhances heat dissipation but also ensures long-term durability, maintaining the product's integrity even in extreme weather conditions.

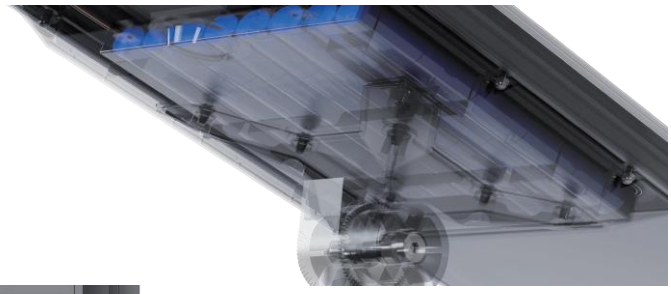
Adjustable Mounting Bracket

Equipped with a durable and adjustable mounting bracket, it adapts seamlessly to horizontal and vertical pole mounts. This design allows for optimal light collection and custom lighting angles, improving performance and simplifying installation without the need for additional hardware.

HIGHLIGHT ML-AUR

Long-life Lithium Battery

Equipped with high-performance LiFePo4 batter- ies, it can perform more than 4,000 deep charge and discharge cycles, ensuring reliable operation for up to ten years and significantly reducing maintenance and replacement costs.



Motion Sensor

Solar street lights can be equipped with PIR sensors or microwave sensors. They provide accurate and reliable presence sensing and adaptive brightness control. This intelligent design can maximize energy savings, improve safety, and ensure sensitive lighting based on real-time conditions.

Anti-Corrosion Powder Coating

Features a premium anti-corrosion powder coating for superior protection against rust, UV rays and environmen- tal wear.

MPPT Charge Controller

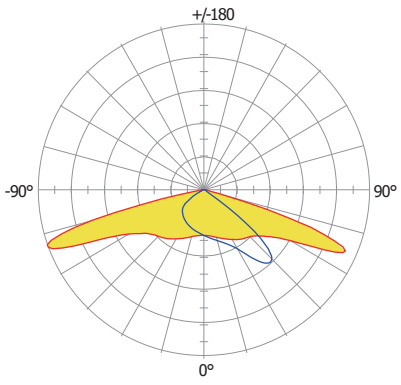
maximizes energy efficiency ensuring longer battery life and consistent illumination without blackout.

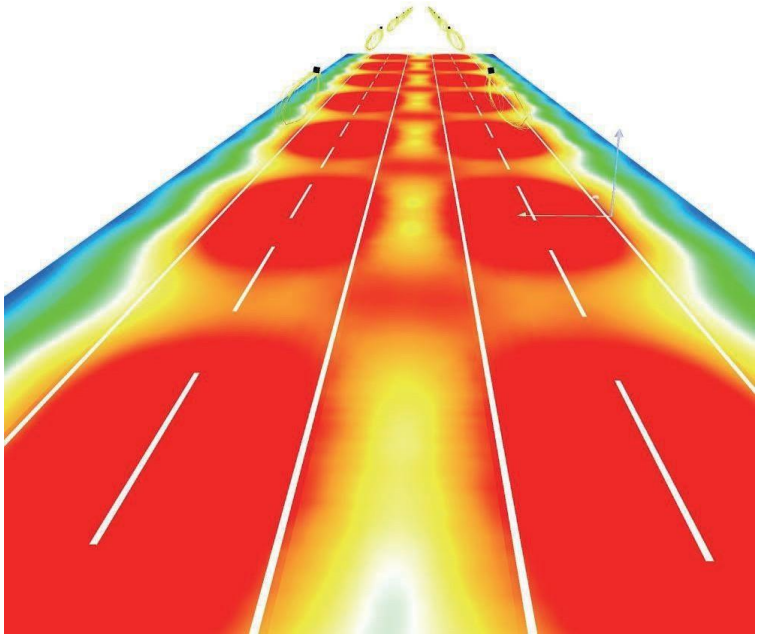
Ultra Slim LED Optic

Optics is a very important component of the whole solar street luminaire while it is always neglected. LEDil optic is adopted for all models of Solarpath's solar street light. The suitable optic will be determined according to the project conditions which are related to the road width, the steel pole height, and distance between poles, etc

HIGHLIGHT ML-AUR is equipped with specially designed LED optics which is to illuminate the main road without wasting light out of road. It use a very narrow but very long lighting distribution pattern which ensures there is no black dot between the poles. With high brightness output and super narrow lighting distribution, it deliver a very smooth and uniform performance on the road, meanwell with the help of longer lighting distance, there will be less quantity of poles which reduce the project cost a lot.

Light Distribution Curve





Installation Method

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 100%	4H/30%(sensor 100%)	9H/20%(sensor 50%)
Mode B	14H/30%(sensor 100%) + 1H/Morning function		
Mode C	14H/30%(without sensor) + 1H/Morning function		

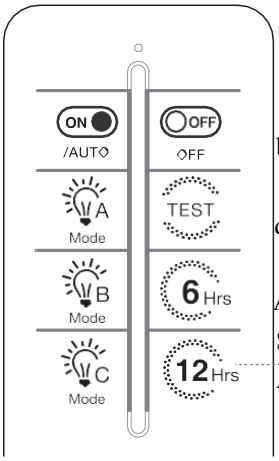
Remote Control

ON & OFF automatically from dusk to dawn

1H/100% + 4H/30%(sensor 100%) + 9H/20%(sensor 50%)

14H/30%(sensor 100%) + 1H/Morning function

14H/30%(without sensor) + 1H/Morning function



Turn off the luminaire (Battery will be still charged in daytime)

Test light: ON for 30s, then OFF if daytime.

Sets the lighting time for the selected A/B/C lighting mode to 6 hrs

Sets the lighting time for the selected A/B/C lighting mode to 12 hrs

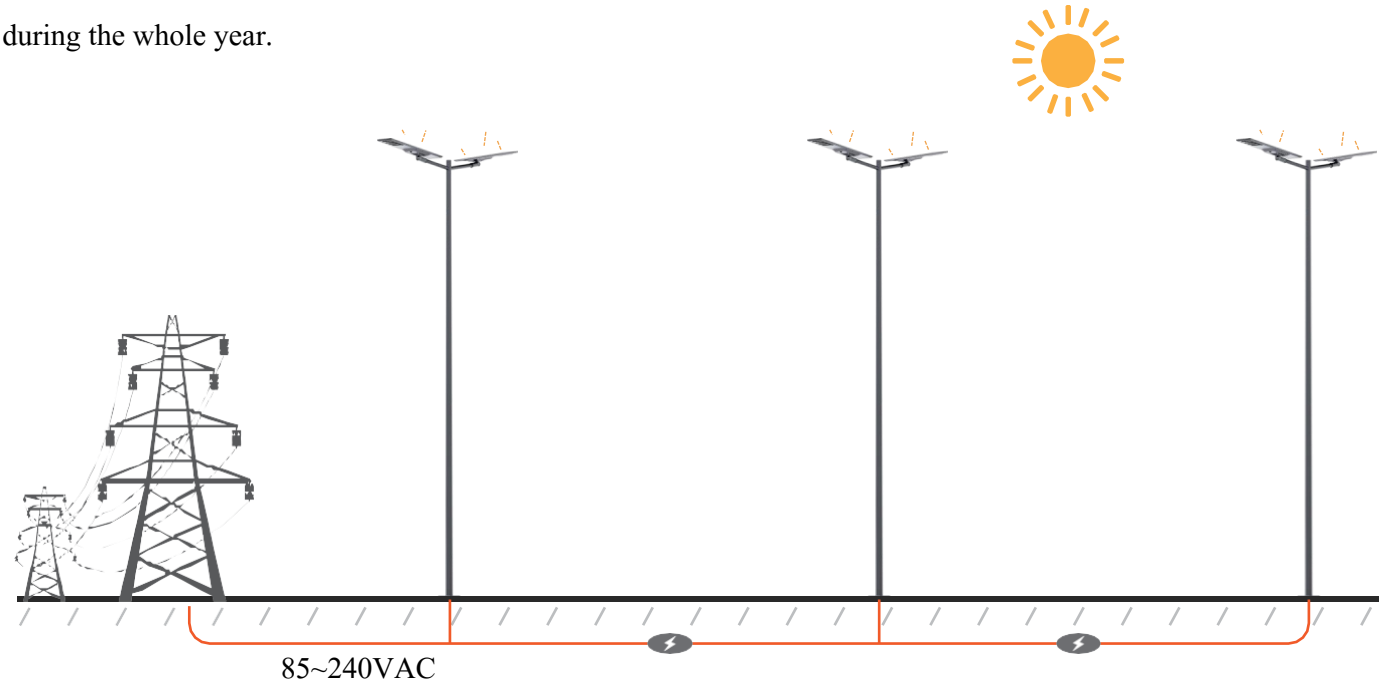
Note :

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.

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 chanllenge 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.

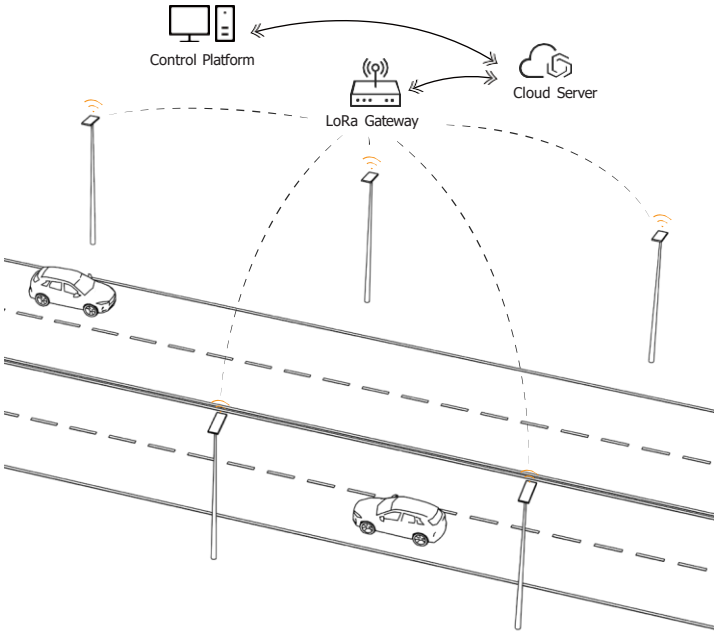
Single light control | Wireless Network | Malfunction management | Energy consumption analysis | Intelligent monitoring

LoRaWAN®

SMART CONTROL SOLUTION

Advantages

Ultra-low power consumption, ultra-long distance

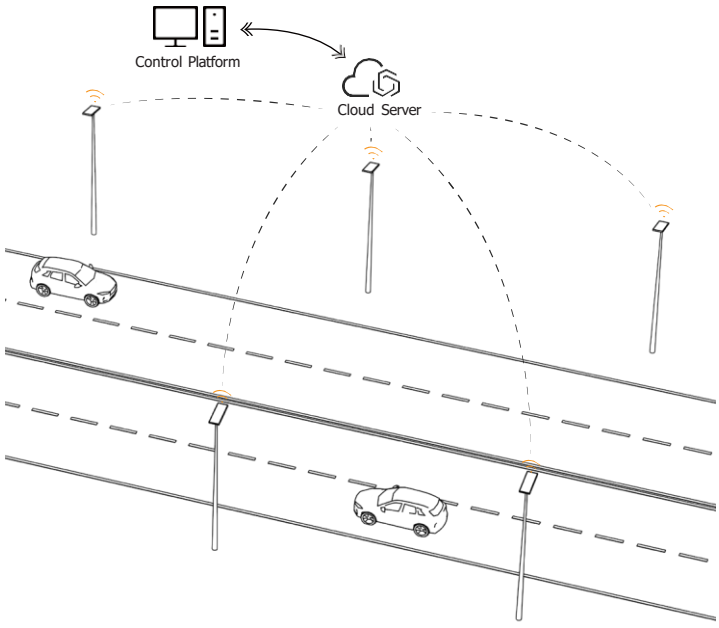


4G Communication Network

SMART CONTROL SOLUTION

Advantages

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



SOLAR STREET LIGHT

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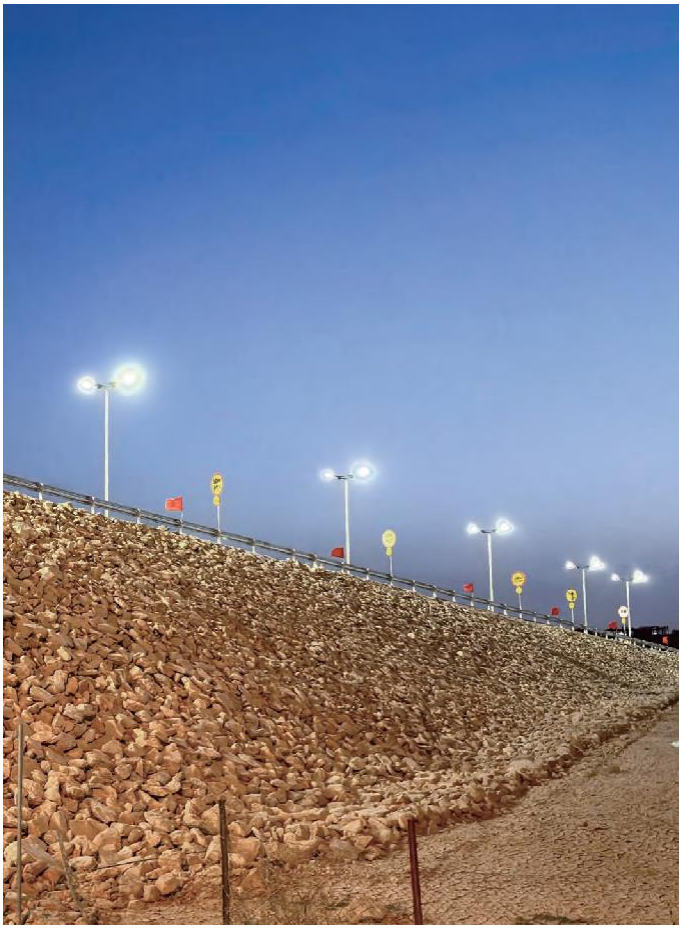

ORDERING GUIDE

Ordering Guide: HIGHLIGHT ML-AUR-80W-60W-1-25K-36AH-BLK-SP-00

Model	Solar Panel	LED Power	Distribution type	LED Color Temp	Battery Options	Body Color	Mounting options	Options
HIGHLIGHT ML-AUR	80W	60W	4 – Type IV	25K	36AH	**BLK**- Black	**SP- Slip Fitter**	**00**- No motion sensor
	100W	80W		30K	42AH			**01**-Motion sensor
	125W	100W		40K	48AH			
	135W	120W		50K	54AH			
	160W	140W		65K				
	175W	160W		Amber				
	200W	180W						

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