

ZAIN Series

AIO SOLAR STREET LIGHT

60W~180W

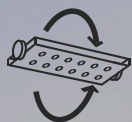


www.auroraslighting.com

AUROSAS
Excellence of Sustainable Energy

ZAIN is the perfect solar lighting for the outdoors, it caters requirements of all applications, ZAIN has wide power ranges from 50W to 180W which apply pole heights from 5 meters to 14 meters. The strong point of ZAIN feature is its adjustable led modules, the angle of the led modules is easy to be adjusted manually in order to make the lights fall on the road properly and let the solar panel face the sun as much as possible. The highest power of solar panels is 196W and the battery capacity is up to 25.6V 60AH, The solar panel and battery box are attached to each other by 6 screws which makes future maintenance accessible easily for repair or replacement.

The new generation of ZAIN series solar lights are also compatible with smart wireless intelligent control system which allows remote access for monitoring and re-programming. It is the perfect choice to help you expand your solar lighting business.



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.



LiFePo4 Battery

Grade A+ Battery cell with high uniformity of internal resistance and charging and discharging.



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.



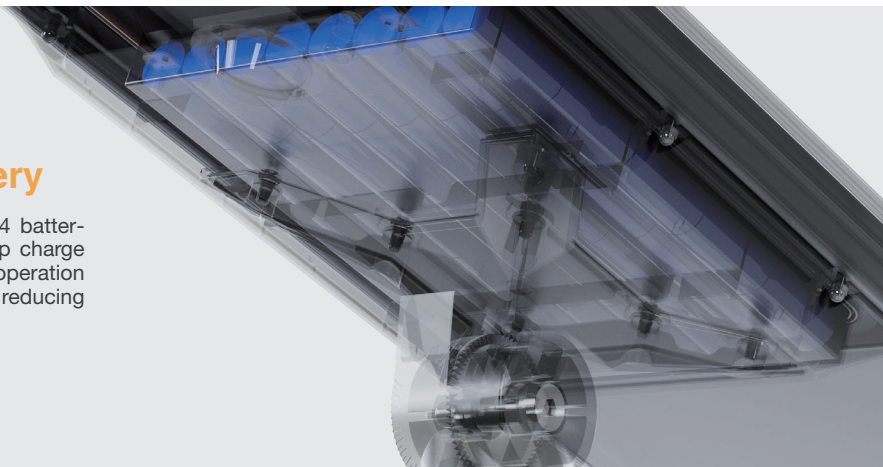
Adjustable Mounting Bracket

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.



Long-life Lithium Battery

Equipped with high-performance LiFePo4 batteries, 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.



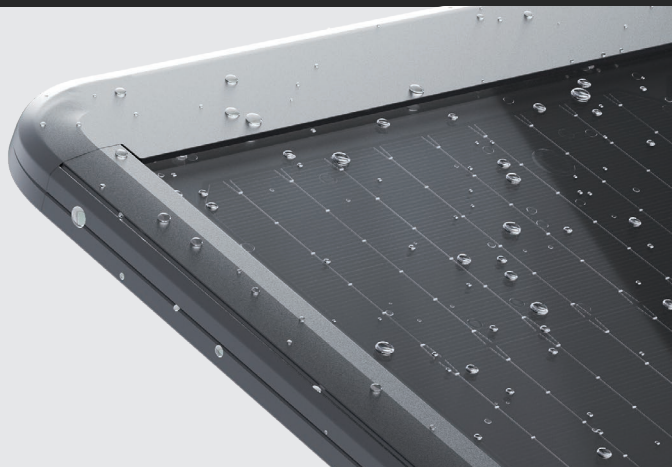
Motion Sensor

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 environmental wear.

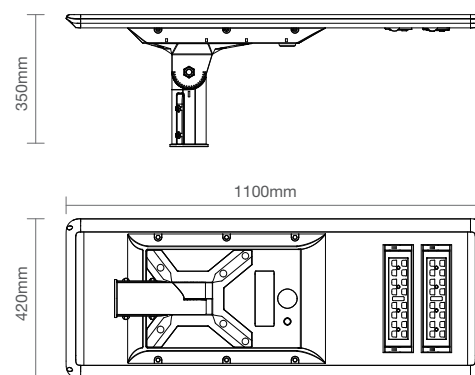


MPPT Charge Controller

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

ZAIN 60W

TECHNICAL PARAMETERS



LED LIGHT	
Luminous Flux	10,200lm
LED Power	60W
Luminous Efficiency	170lm/W
LED Chips	SMD5050 5W/LED max
LED Module	2 Pcs
LED Quantity	32 Pcs
CRI	Ra≥78
CCT	2200K~6000K
LED Lifetime	>100,000 hours

SOLAR PANEL	
Peak Power	82Wp
Max. Voltage	18V
Solar cells efficiency	22.3%
Power Tolerance (W)	±3%
Technology	Monocrystalline silicon panel
Operating Temperature	-40 °C ~ 85 °C
Lifetime	>20 years
Cable Size &Connector	2.5mm Universal MC4
Glass	High-strength tempered glass

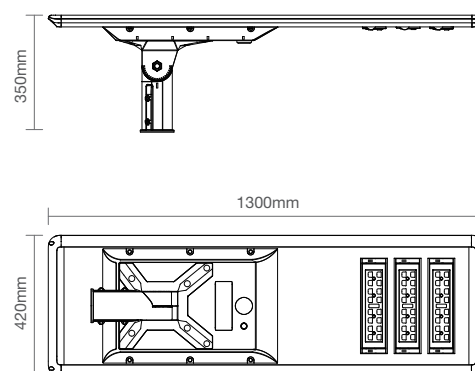
LIFEPO4 BATTERY	
Battery type	LifePO4 6000mA 3.2V 32700
Battery capacity	12.8V, 36Ah 460Wh
Battery lifetime	4000 cycles @ D.O.D 50%

MPPT CONTROLLER	
System Voltage	12V
Max Load Power	80W
Tracking Efficiency	98%
Motion Sensor	PIR / Microwave Optional

OTHER	
Light Dimension	1100*420*350mm
Pole Diameter	76mm
IP&IK Protection	IP65 IK08
Material	Aluminum Alloy
Color	Grey / Black / Customized
Certification	ROHS, CE
CTN SIZE	1170*280*500mm
G.W	20.30KGS
Warranty	5 Years

ZAIN 80W

TECHNICAL PARAMETERS



LED LIGHT	
Luminous Flux	13,600lm
LED Power	80W
Luminous Efficiency	170lm/W
LED Chips	SMD5050 5W/LED max
LED Module	3 Pcs
LED Quantity	48 Pcs
CRI	Ra≥78
CCT	2200K~6000K
LED Lifetime	>100,000 hours

SOLAR PANEL	
Peak Power	103Wp
Max. Voltage	18V
Solar cells efficiency	22.3%
Power Tolerance (W)	±3%
Technology	Monocrystalline silicon panel
Operating Temperature	-40 °C ~ 85 °C
Lifetime	>20 years
Cable Size &Connector	2.5mm Universal MC4
Glass	High-strength tempered glass

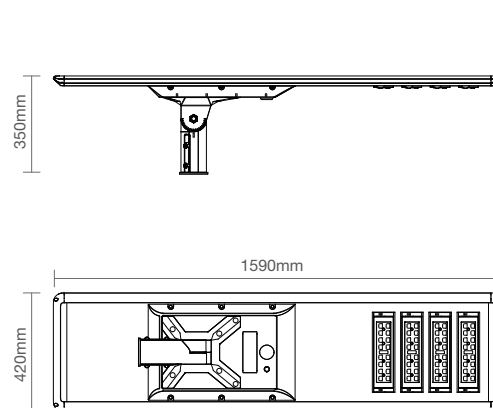
LIFEPO4 BATTERY	
Battery type	LifePO4 6000mA 3.2V 32700
Battery capacity	12.8V, 48Ah 614Wh
Battery lifetime	4000 cycles @ D.O.D 50%

MPPT CONTROLLER	
System Voltage	12V
Max Load Power	80W
Tracking Efficiency	98%
Motion Sensor	PIR / Microwave Optional

OTHER	
Light Dimension	1300*420*350mm
Pole Diameter	76mm
IP&IK Protection	IP65 IK08
Material	Aluminum Alloy
Color	Grey / Black / Customized
Certification	ROHS, CE
CTN SIZE	1350*280*500mm
G.W	23.00KGS
Warranty	5 Years

ZAIN 100W

TECHNICAL PARAMETERS



LED LIGHT	
Luminous Flux	17,000lm
LED Power	100W
Luminous Efficiency	170lm/W
LED Chips	SMD5050 5W/LED max
LED Module	4 Pcs
LED Quantity	64 Pcs
CRI	Ra≥78
CCT	2200K~6000K
LED Lifetime	>100,000 hours

SOLAR PANEL	
Peak Power	125Wp
Max. Voltage	36V
Solar cells efficiency	22.3%
Power Tolerance (W)	±3%
Technology	Monocrystalline silicon panel
Operating Temperature	-40 °C ~ 85 °C
Lifetime	>20 years
Cable Size &Connector	2.5mm Universal MC4
Glass	High-strength tempered glass

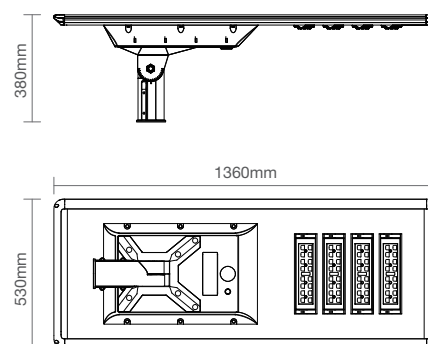
LIFEPO4 BATTERY	
Battery type	LifePO4 6000mA 3.2V 32700
Battery capacity	16V, 48Ah 768Wh
Battery lifetime	4000 cycles @ D.O.D 50%

MPPT CONTROLLER	
System Voltage	24V
Max Load Power	120W
Tracking Efficiency	98%
Motion Sensor	PIR / Microwave Optional

OTHER	
Light Dimension	1590*420*350mm
Pole Diameter	76mm
IP&IK Protection	IP65 IK08
Material	Aluminum Alloy
Color	Grey / Black / Customized
Certification	ROHS, CE
CTN SIZE	1660*280*500mm
G.W	28.80KGS
Warranty	5 Years

ZAIN 120W

TECHNICAL PARAMETERS



LED LIGHT	
Luminous Flux	20,400lm
LED Power	120W
Luminous Efficiency	170lm/W
LED Chips	SMD5050 5W/LED max
LED Module	4 Pcs
LED Quantity	64 Pcs
CRI	Ra≥78
CCT	2200K~6000K
LED Lifetime	>100,000 hours

SOLAR PANEL	
Peak Power	135Wp
Max. Voltage	36V
Solar cells efficiency	22.3%
Power Tolerance (W)	±3%
Technology	Monocrystalline silicon panel
Operating Temperature	-40 °C ~ 85 °C
Lifetime	>20 years
Cable Size &Connector	2.5mm Universal MC4
Glass	High-strength tempered glass

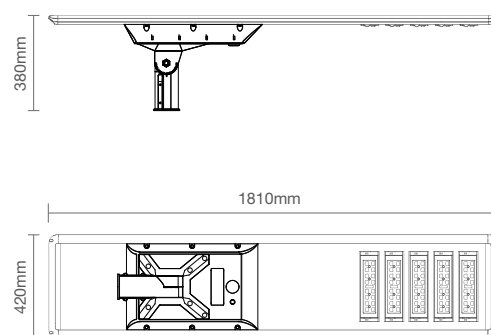
LIFEPO4 BATTERY	
Battery type	LifePO4 6000mA 3.2V 32700
Battery capacity	25.6V, 36Ah 921Wh
Battery lifetime	4000 cycles @ D.O.D 50%

MPPT CONTROLLER	
System Voltage	24V
Max Load Power	120W
Tracking Efficiency	98%
Motion Sensor	PIR / Microwave Optional

OTHER	
Light Dimension	1360*530*380mm
Pole Diameter	76mm
IP&IK Protection	IP65 IK08
Material	Aluminum Alloy
Color	Grey / Black / Customized
Certification	ROHS, CE
CTN SIZE	1400*290*670mm
G.W	31.30KGS
Warranty	5 Years

ZAIN 120W

TECHNICAL PARAMETERS



LED LIGHT	
Luminous Flux	20,400lm
LED Power	120W
Luminous Efficiency	170lm/W
LED Chips	SMD5050 5W/LED max
LED Module	5 Pcs
LED Quantity	80 Pcs
CRI	Ra≥78
CCT	2200K~6000K
LED Lifetime	>100,000 hours

SOLAR PANEL	
Peak Power	135Wp
Max. Voltage	36V
Solar cells efficiency	22.3%
Power Tolerance (W)	±3%
Technology	Monocrystalline silicon panel
Operating Temperature	-40 °C ~ 85 °C
Lifetime	>20 years
Cable Size &Connector	2.5mm Universal MC4
Glass	High-strength tempered glass

LIFEPO4 BATTERY	
Battery type	LifePO4 6000mA 3.2V 32700
Battery capacity	25.6V, 36Ah 921Wh
Battery lifetime	4000 cycles @ D.O.D 50%

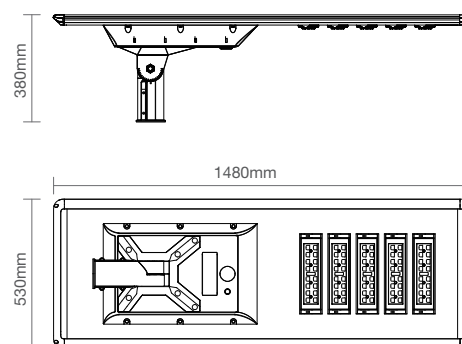
MPPT CONTROLLER	
System Voltage	24V
Max Load Power	120W
Tracking Efficiency	98%
Motion Sensor	PIR / Microwave Optional

OTHER	
Light Dimension	1810*420*380mm
Pole Diameter	76mm
IP&IK Protection	IP65 IK08
Material	Aluminum Alloy
Color	Grey / Black / Customized
Certification	ROHS, CE
CTN SIZE	•
G.W	•
Warranty	5 Years

ZAIN 140W

TECHNICAL PARAMETERS

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LED LIGHT	
Luminous Flux	23,800lm
LED Power	140W
Luminous Efficiency	170lm/W
LED Chips	SMD5050 5W/LED max
LED Module	5 Pcs
LED Quantity	80 Pcs
CRI	Ra≥78
CCT	2200K~6000K
LED Lifetime	>100,000 hours

SOLAR PANEL	
Peak Power	158Wp
Max. Voltage	36V
Solar cells efficiency	22.3%
Power Tolerance (W)	±3%
Technology	Monocrystalline silicon panel
Operating Temperature	-40 °C ~ 85 °C
Lifetime	>20 years
Cable Size &Connector	2.5mm Universal MC4
Glass	High-strength tempered glass

LIFEPO4 BATTERY	
Battery type	LifePO4 6000mA 3.2V 32700
Battery capacity	25.6V, 42Ah 1075Wh
Battery lifetime	4000 cycles @ D.O.D 50%

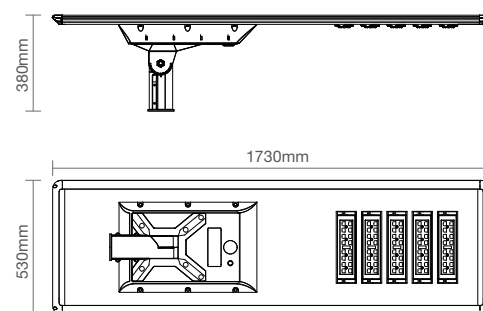
MPPT CONTROLLER	
System Voltage	24V
Max Load Power	200W
Tracking Efficiency	98%
Motion Sensor	PIR / Microwave Optional

OTHER	
Light Dimension	1480*530*380mm
Pole Diameter	76mm
IP&IK Protection	IP65 IK08
Material	Aluminum Alloy
Color	Grey / Black / Customized
Certification	ROHS, CE
CTN SIZE	1540*290*670mm
G.W	35.00KGS
Warranty	5 Years

ZAIN 160W

TECHNICAL PARAMETERS

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LED LIGHT	
Luminous Flux	27,200lm
LED Power	160W
Luminous Efficiency	170lm/W
LED Chips	SMD5050 5W/LED max
LED Module	5 Pcs
LED Quantity	80 Pcs
CRI	Ra≥78
CCT	2200K~6000K
LED Lifetime	>100,000 hours

SOLAR PANEL	
Peak Power	177Wp
Max. Voltage	36V
Solar cells efficiency	22.3%
Power Tolerance (W)	±3%
Technology	Monocrystalline silicon panel
Operating Temperature	-40 °C ~ 85 °C
Lifetime	>20 years
Cable Size &Connector	2.5mm Universal MC4
Glass	High-strength tempered glass

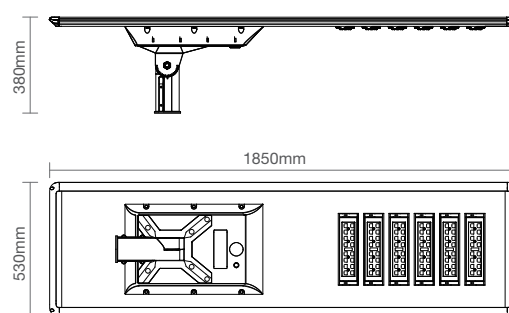
LIFEPO4 BATTERY	
Battery type	LifePO4 6000mA 3.2V 32700
Battery capacity	25.6V, 48Ah 1228Wh
Battery lifetime	4000 cycles @ D.O.D 50%

MPPT CONTROLLER	
System Voltage	24V
Max Load Power	200W
Tracking Efficiency	98%
Motion Sensor	PIR / Microwave Optional

OTHER	
Light Dimension	1730*530*380mm
Pole Diameter	76mm
IP&IK Protection	IP65 IK08
Material	Aluminum Alloy
Color	Grey / Black / Customized
Certification	ROHS, CE
CTN SIZE	•
G.W	•
Warranty	5 Years

ZAIN 180W

TECHNICAL PARAMETERS



LED LIGHT	
Luminous Flux	34,000lm
LED Power	180W
Luminous Efficiency	170lm/W
LED Chips	SMD5050 5W/LED max
LED Module	6 Pcs
LED Quantity	96 Pcs
CRI	Ra≥78
CCT	2200K~6000K
LED Lifetime	>100,000 hours

SOLAR PANEL	
Peak Power	196Wp
Max. Voltage	36V
Solar cells efficiency	22.3%
Power Tolerance (W)	±3%
Technology	Monocrystalline silicon panel
Operating Temperature	-40 °C ~ 85 °C
Lifetime	>20 years
Cable Size &Connector	2.5mm Universal MC4
Glass	High-strength tempered glass

LIFEPO4 BATTERY	
Battery type	LifePO4 6000mA 3.2V 32700
Battery capacity	25.6V, 54Ah 1382Wh
Battery lifetime	4000 cycles @ D.O.D 50%

MPPT CONTROLLER	
System Voltage	24V
Max Load Power	200W
Tracking Efficiency	98%
Motion Sensor	PIR / Microwave Optional

OTHER	
Light Dimension	1850*530*380mm
Pole Diameter	76mm
IP&IK Protection	IP65 IK08
Material	Aluminum Alloy
Color	Grey / Black / Customized
Certification	ROHS, CE
CTN SIZE	•
G.W	•
Warranty	5 Years

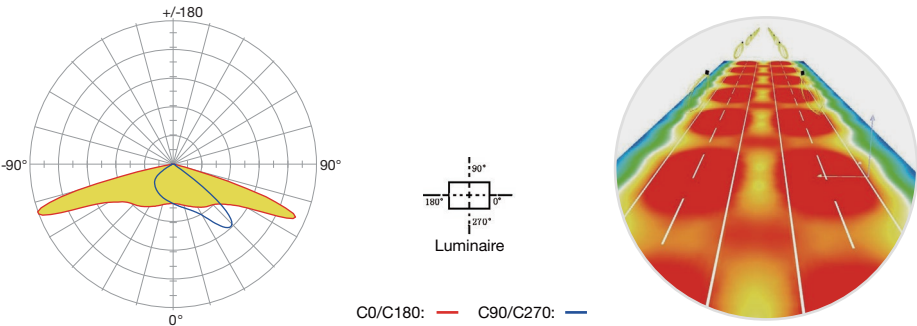
Ultra Slim LED Optic

Optics play a critical role in solar street lighting performance. DIYA is equipped with specially designed LED optics that precisely direct light onto the roadway, minimizing light loss outside the target area. Its ultra-narrow and extended light distribution ensures smooth, uniform illumination with no dark spots between poles, delivering high brightness over longer distances and enabling wider pole spacing, which effectively reduces overall project costs.

Lens Material	Light Utilization	Protection
PMMA	≥85%	Anti-UV, Anti-yellowing



Light Distribution Curve



Installation Method



Lighting 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% full power	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		

Applications



Street, Road



Bike Track, Pathway



Residential, Villa



Public Area, Park, Car Parking Lot



Jetties, Coastal, Marina, Dock

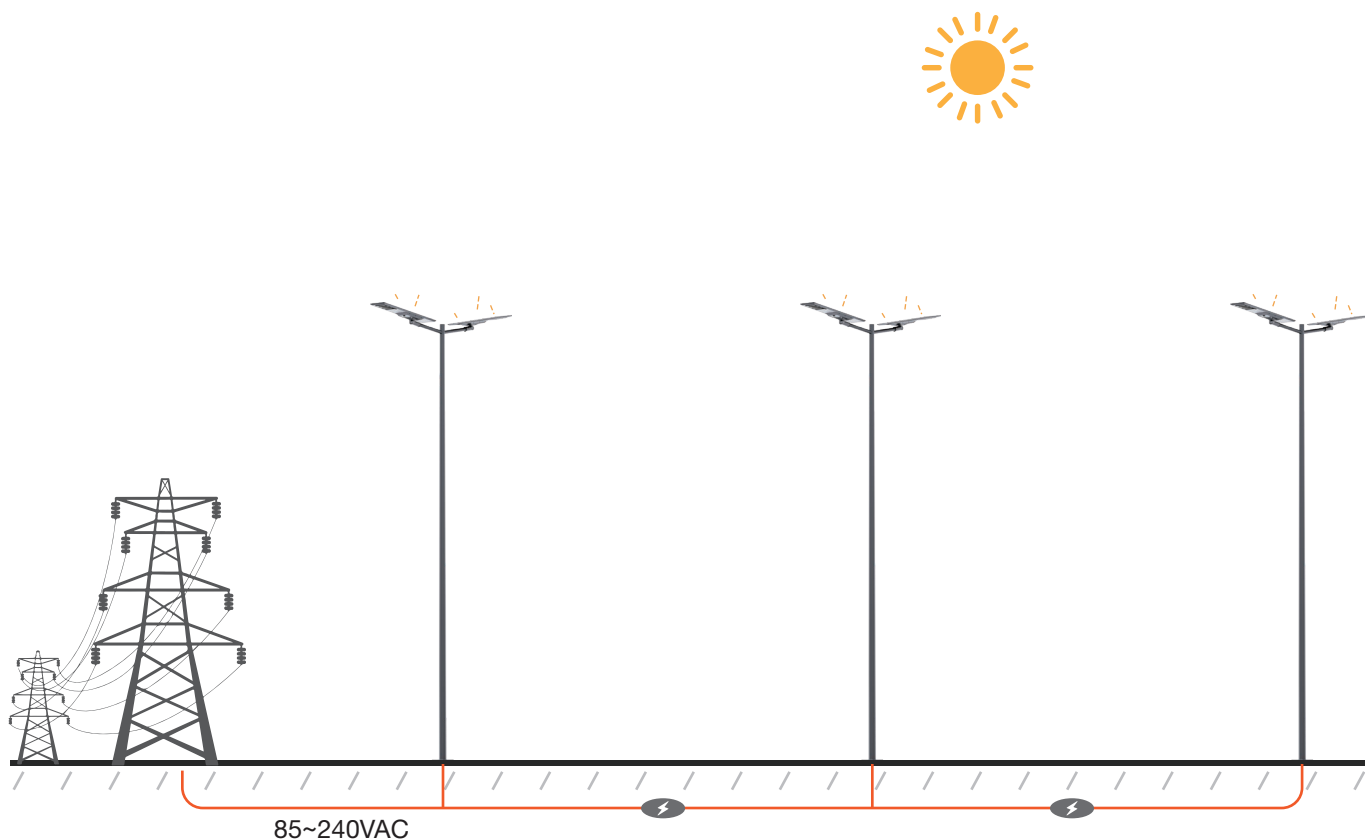


Farms, Fences, etc

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.



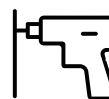
Energy saving

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



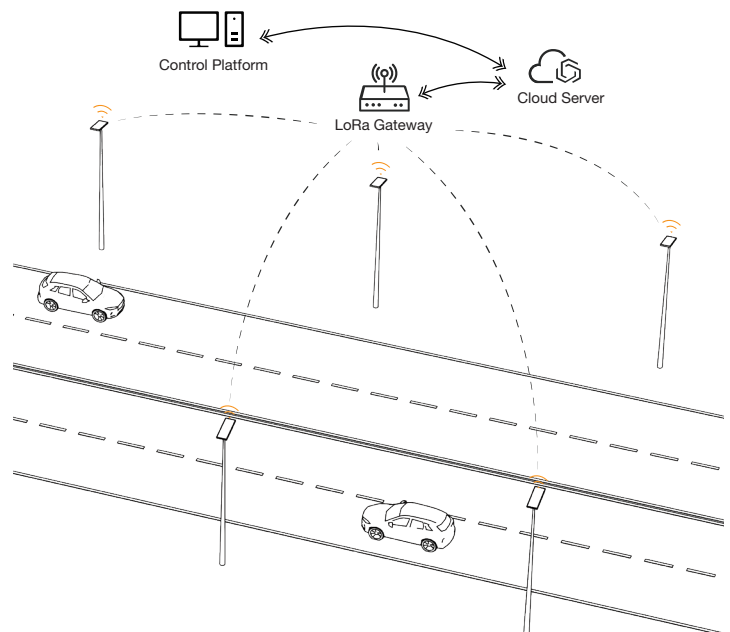
Intelligent monitoring



SMART CONTROL SOLUTION

Advantages

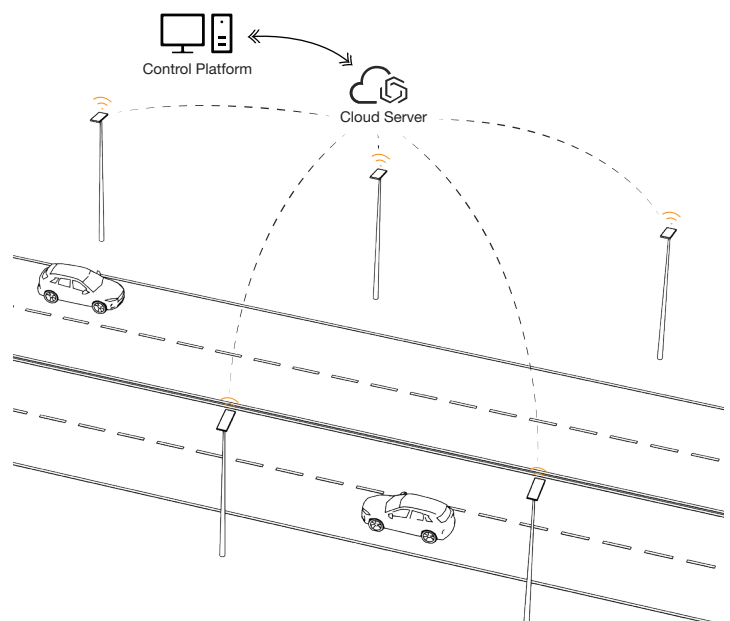
Ultra-low power consumption, ultra-long distance



SMART CONTROL SOLUTION

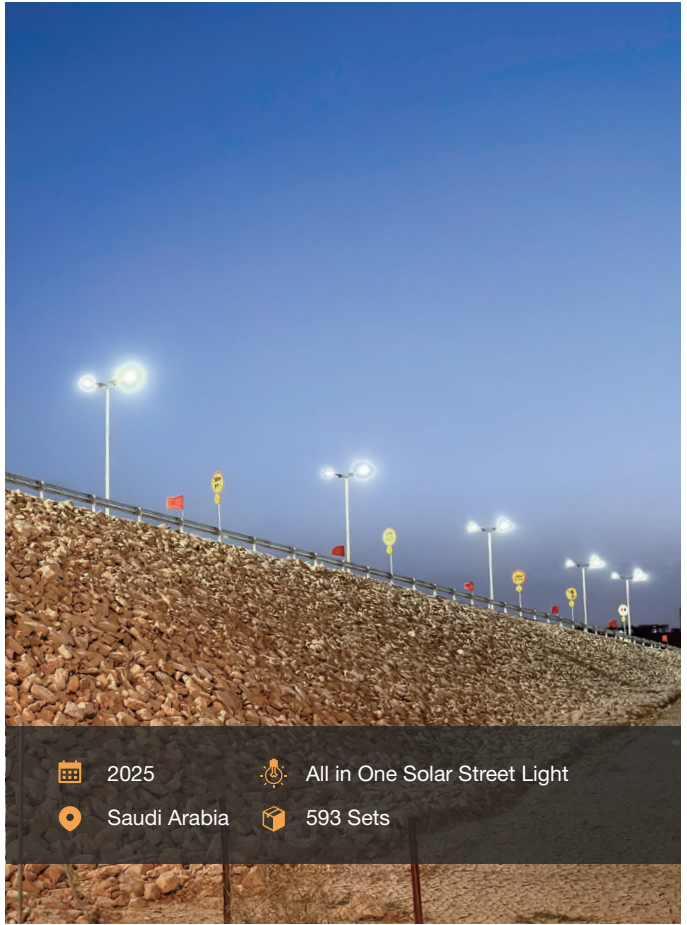
Advantages

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





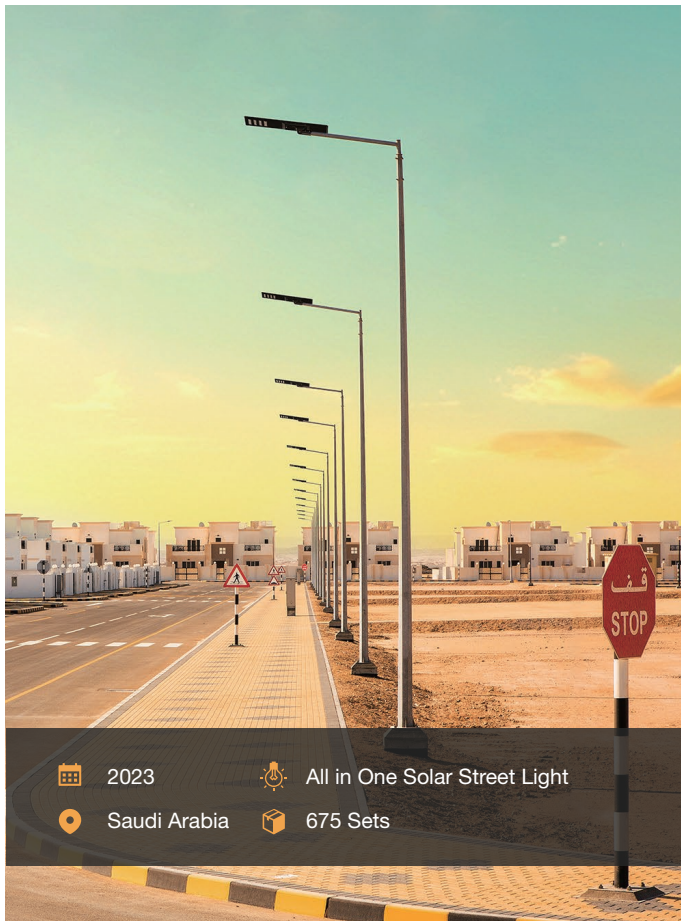
2023 All in One Solar Street Light
Erbil, Iraq 1164 Sets



2025 All in One Solar Street Light
Saudi Arabia 593 Sets



2023 All in One Solar Street Light
Oman 132 Sets



2023 All in One Solar Street Light
Saudi Arabia 675 Sets



ZAIN

ALL IN ONE
SOLAR STREET LIGHT

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