ZAIN

ALL IN ONE SOLAR STREET LIGHT

160W I 31,800lm



www.auroraslighting.com

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Excellence in Sustainable Energy

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ZAIN Series

ALL IN ONE SOLAR STREET LIGHT

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.

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.



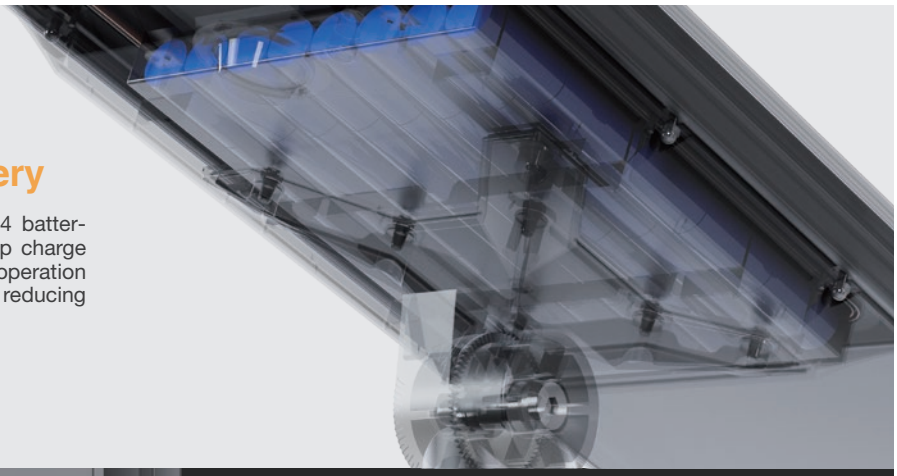


Adjustable Mounting Bracket

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.



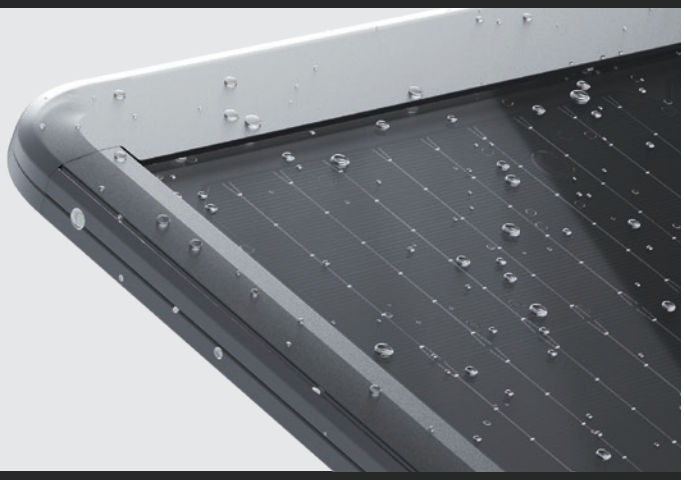


Motion Sensor

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

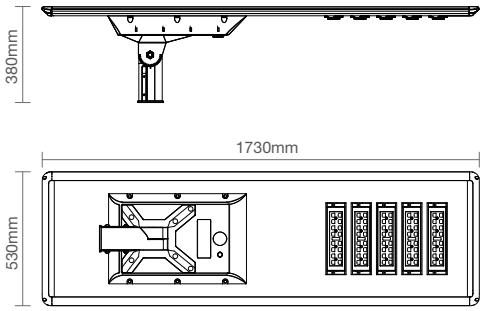
maximizes energy efficiency ensuring longer battery life and consistent illumination without blackout.

ZAIN 160W

TECHNICAL PARAMETERS

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LED LIGHT	Luminous Flux	31,800lm	LED Quantity	80 Pcs
	LED Power	160W	CRI	Ra≥70
	Luminous Efficiency	200lm/W	CCT	2200K~6000K
	LED Chips	SMD5050 5W/LED max	LED Lifetime	>100,000 hours
SOLAR PANEL	Peak Power	177Wp	Operating Temperature	-40 °C ~ 85 °C
	Max. Voltage	36V	Lifetime	>20 years
	Solar cells efficiency	23.5%	Cable Size & Connector	2.5mm Universal MC4
	Power Tolerance (W)	±3%	Glass	High-strength tempered glass
	Technology	Monocrystalline silicon panel	-	-
LIFEPO4 BATTERY	Battery type	LifePO4 6000mA 3.2V 32700	Cycle Life	4000 cycles @ D.O.D 50%
	Battery capacity	48Ah 1228Wh	Working Temp.	-10°C ~ +65°C
	Voltage	25.6V	-	-
MPPT CONTROLLER	System Voltage	24V	Tracking Efficiency	98%
	Load Power	200W	Motion Sensor	PIR / Microwave Optional
	Charge Current	15A	-	-
OTHER	Light Dimension	1730*530*380mm	Certification	ROHS, CE
	Pole Diameter	76mm	CTN SIZE	-
	IP&IK Protection	IP65 IK08	G.W	-
	Material	Aluminum Alloy	Warranty	5 Years
	Color	Grey / Black / Customized	-	-

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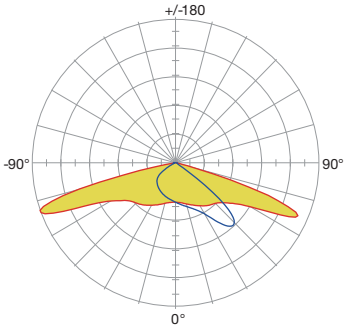
Ultra Slim LED Optic

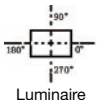
Optics play a critical role in solar street lighting performance. ZAIN is equipped with specially designed LED optics that precisely direct light onto the roadway, minimizing light loss outside the target area. Its ultra-narrow and extended light distribution ensures smooth, uniform illumination with 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	≥93%	Anti-UV, Anti-yellowing

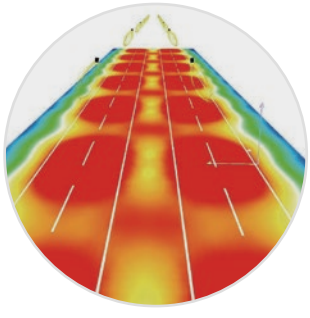


Light Distribution Curve





Luminaire



C0/C180: — C90/C270: —

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

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Hybrid System with 220V Grid Supply (Optional)

The solar streetlight features a hybrid system with AC grid backup, ensuring reliable operation in areas with limited solar radiation or prolonged bad weather. The intelligent control system automatically switches to grid power when battery energy is low and returns to battery operation once fully recharged, guaranteeing continuous, uninterrupted lighting throughout the year.



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

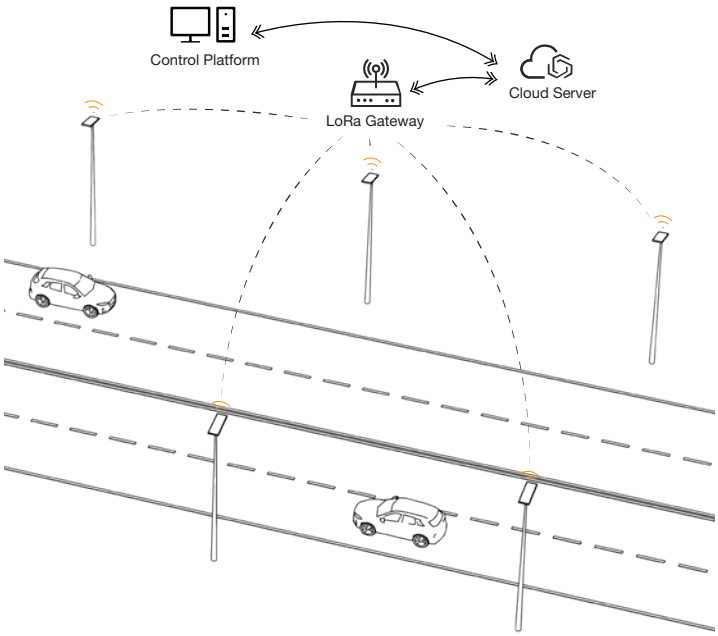
Intelligent monitoring

LoRaWAN®

SMART CONTROL SOLUTION

Advantages

Ultra-low power consumption, ultra-long distance

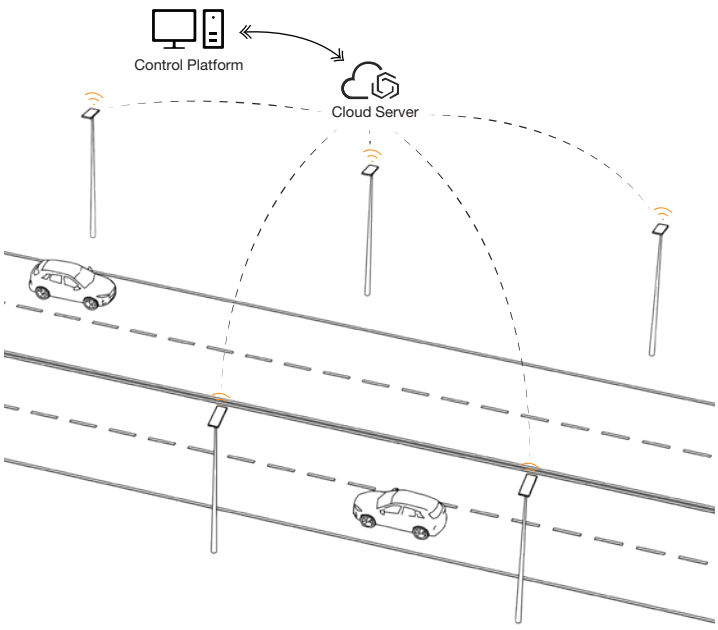


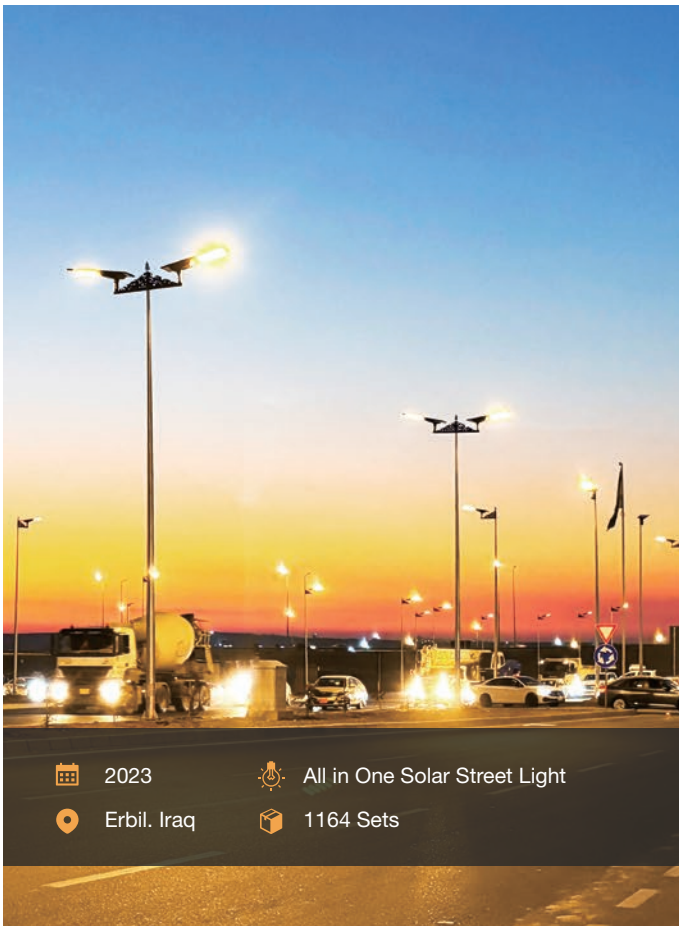
4G Wireless

SMART CONTROL SOLUTION

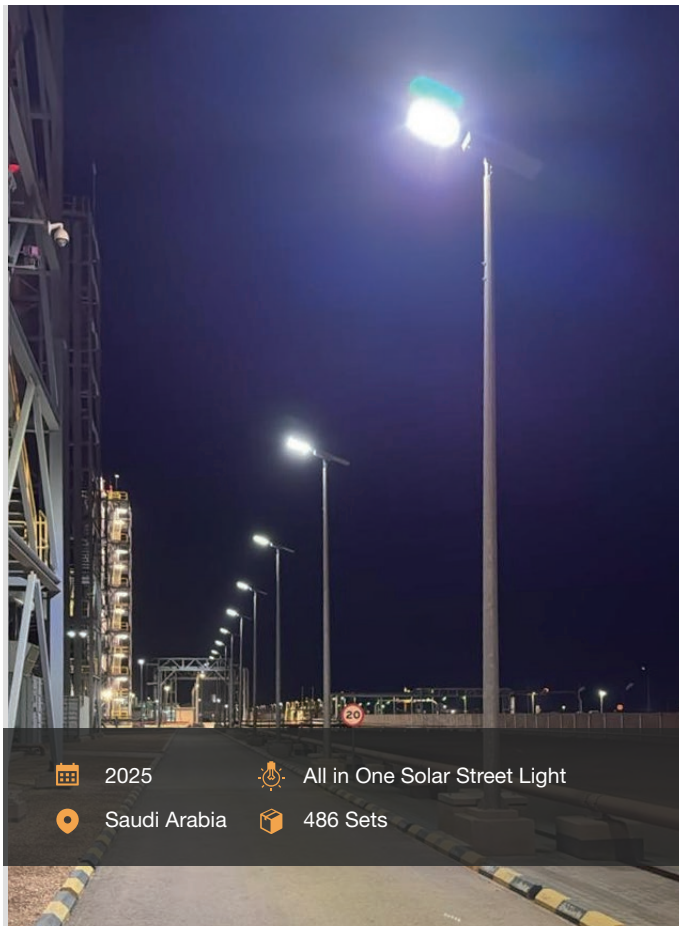
Advantages

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

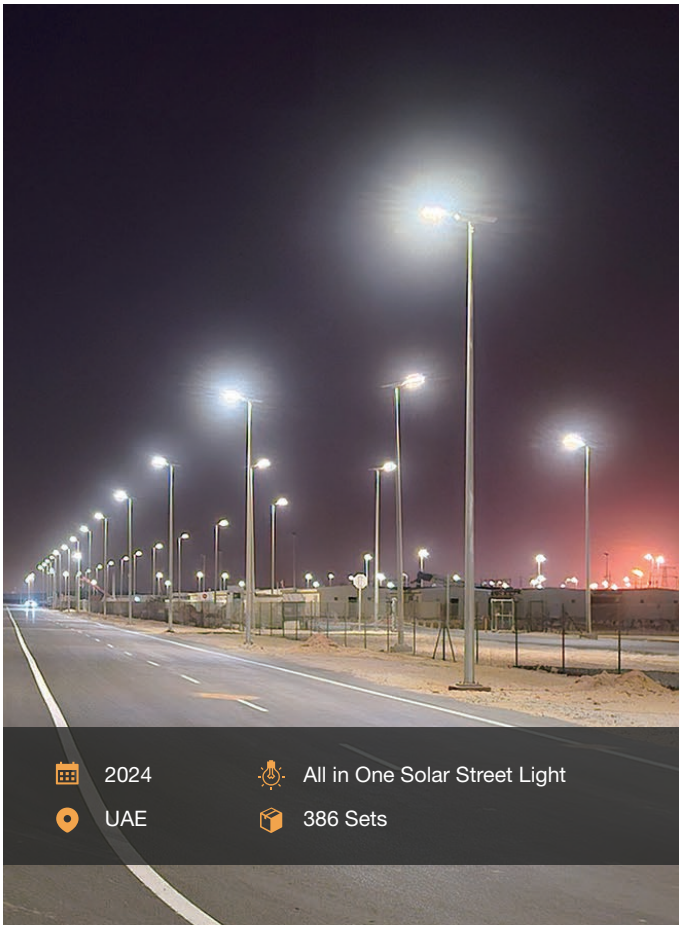




2023
All in One Solar Street Light
Erbil. Iraq
1164 Sets



2025
All in One Solar Street Light
Saudi Arabia
486 Sets



2024
All in One Solar Street Light
UAE
386 Sets



2025
All in One Solar Street Light
Thailand
2780 Sets

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Zhuhai, GuangDong 519000 CHINA

Factory in Saudi :
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Riyadh SAUDI ARABIA

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