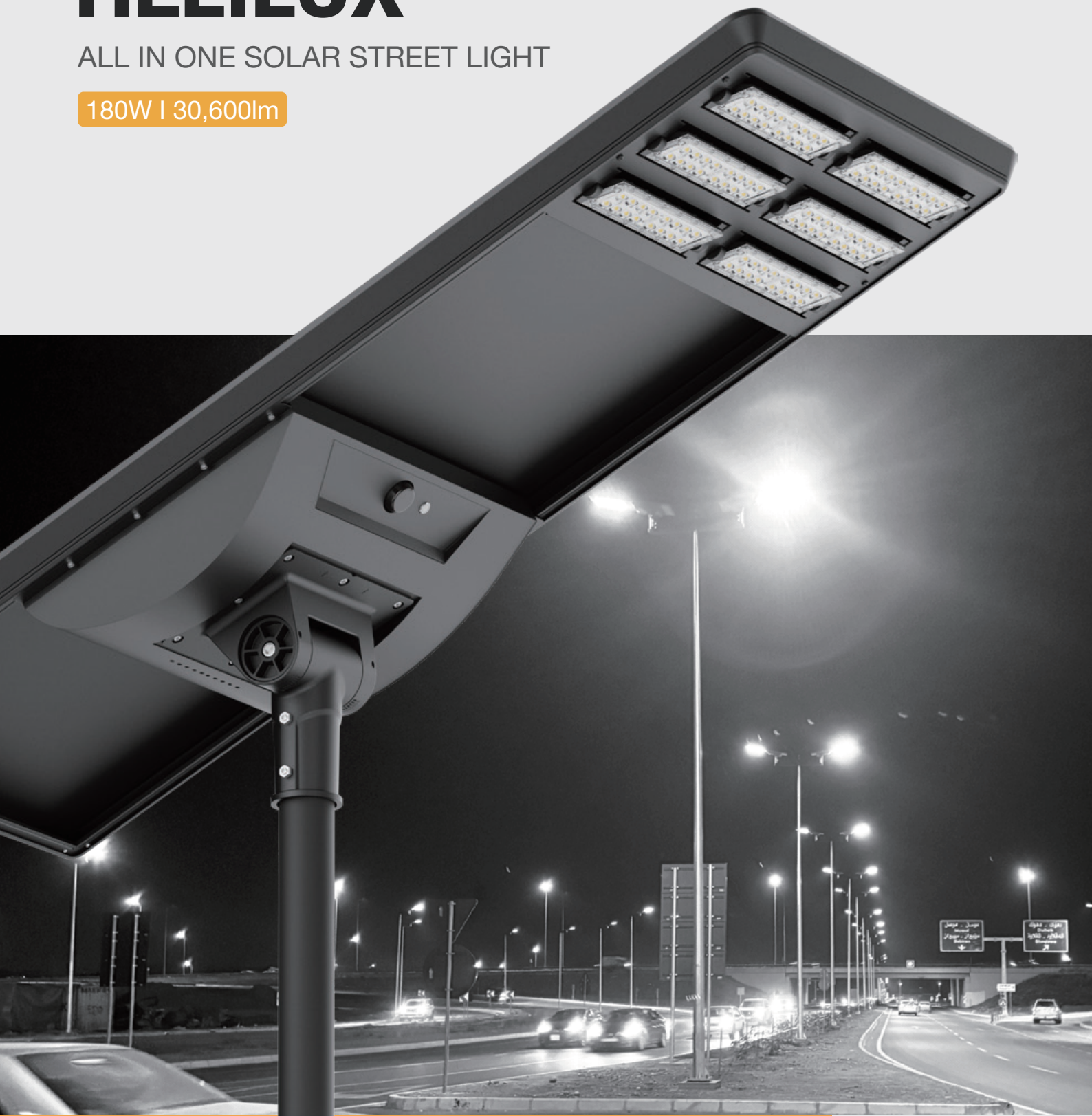
HELILUX

ALL IN ONE SOLAR STREET LIGHT

180W I 30,600lm



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AURORAS

Excellence of Sustainable Energy

AURORAS

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HELILUX

ALL IN ONE SOLAR STREET LIGHT

The HELILUX Series solar street light combines power and precision with its four adjustable LED modules, high-capacity $LiFePO_4$ battery, and ultra-large solar panel for superior energy conversion. Its rotatable mounting brackets ensure optimal sunlight exposure and precise lighting distribution. Designed for highways, industrial areas, and city roads, HELILUX delivers exceptional brightness, reliability, and endurance — setting a new standard for integrated solar street lighting.

HELILUX

AIO SOLAR STREET LIGHT

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FEATURES

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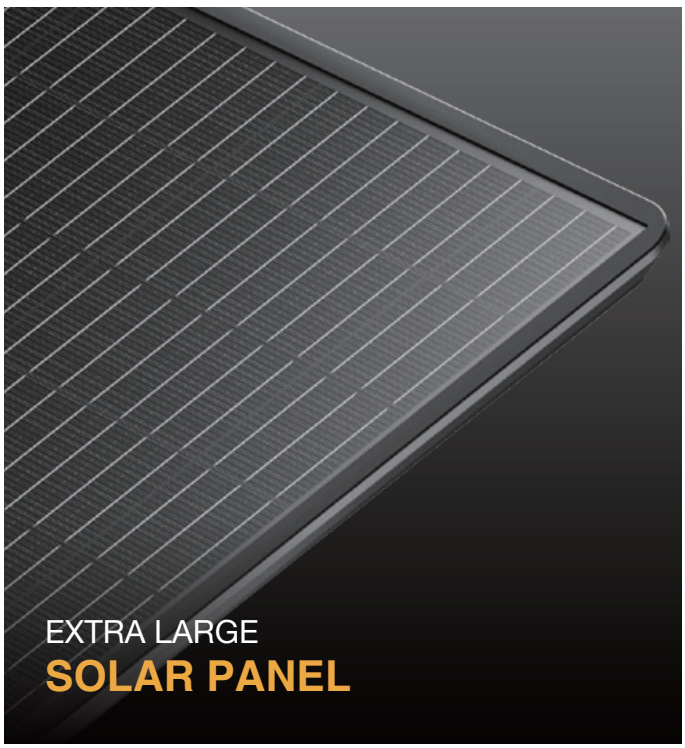
HIGH BRIGHTNESS LED
170LM/W



ROTATABLE
LED MODULE



PIR / MICROWAVE
MOTION SENSOR



EXTRA LARGE
SOLAR PANEL



BUILT-IN LARGE CAPACITY
LIFEPO4 BATTERY

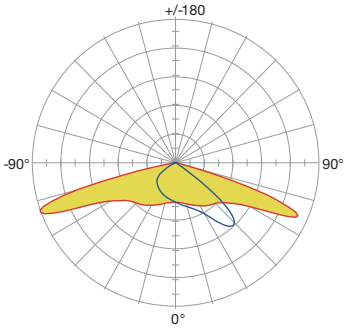
Ultra Slim LED Optic

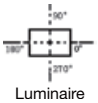
Optics play a critical role in solar street lighting performance. HELILUX is equipped with specially designed LED optics that precisely direct light onto the roadway, minimizing light loss outside the target area. Its ultra-narrow and extended light distribution ensures smooth, uniform illumination with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



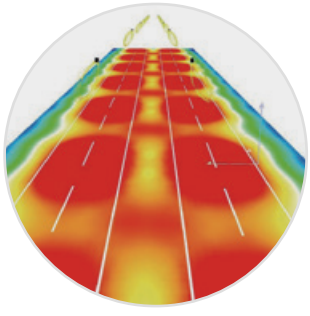
Light Distribution Curve





Luminaire

C0/C180: — C90/C270: —



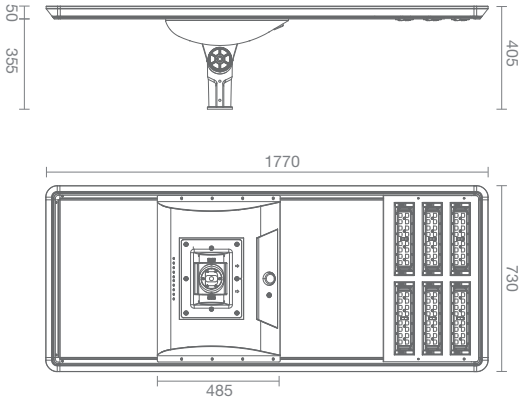
HELILUX 180W

AIO SOLAR STREET LIGHT

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SPECIFICATIONS

LED LIGHT	Luminous Flux	Max 30,600lm	LED Quantity	96 Pcs
	LED Power	180W	CRI	Ra≥70
	Luminous Efficiency	170lm/W	CCT	2200K~6000K
	LED Chips	SMD5050 5W/LED max	LED Lifetime	>100,000 hours
	LED Module	6 Pcs	-	-
SOLAR PANEL	Peak Power	235Wp	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	60Ah 1536Wh	Working Temp.	-10°C ~ +65°C
	Voltage	25.6V	-	-
MPPT CONTROLLER	System Voltage	24V	Tracking Efficiency	98%
	Max Load Power	200W	Motion Sensor	PIR / Microwave Optional
	Charge Current	15A	-	-
OTHER	Light Dimension	1770*730*405mm	Certification	CB, 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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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







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

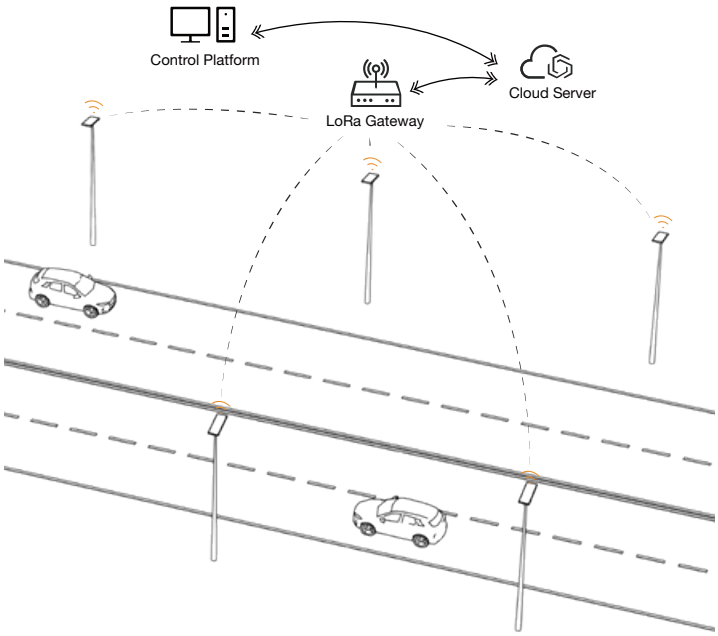
Intelligent monitoring

LoRaWAN®

SMART CONTROL SOLUTION

Advantages

Ultra-low power consumption, ultra-long distance

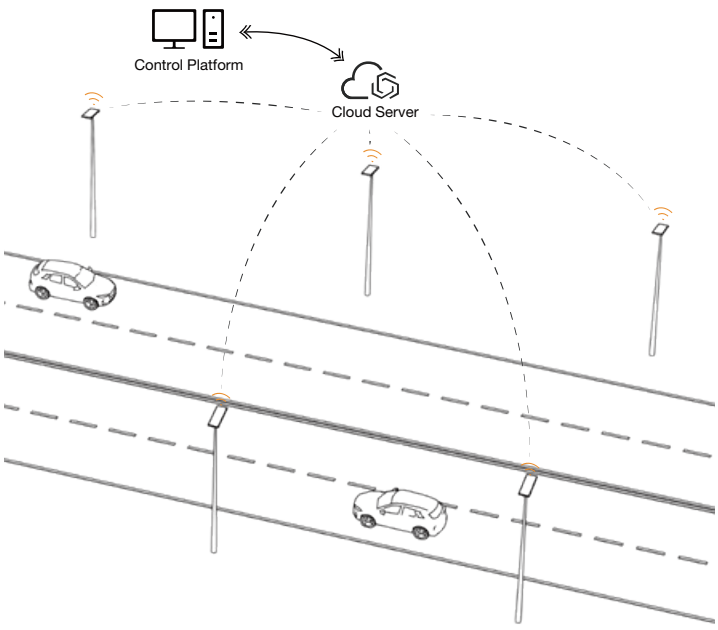


4G Wireless

SMART CONTROL SOLUTION

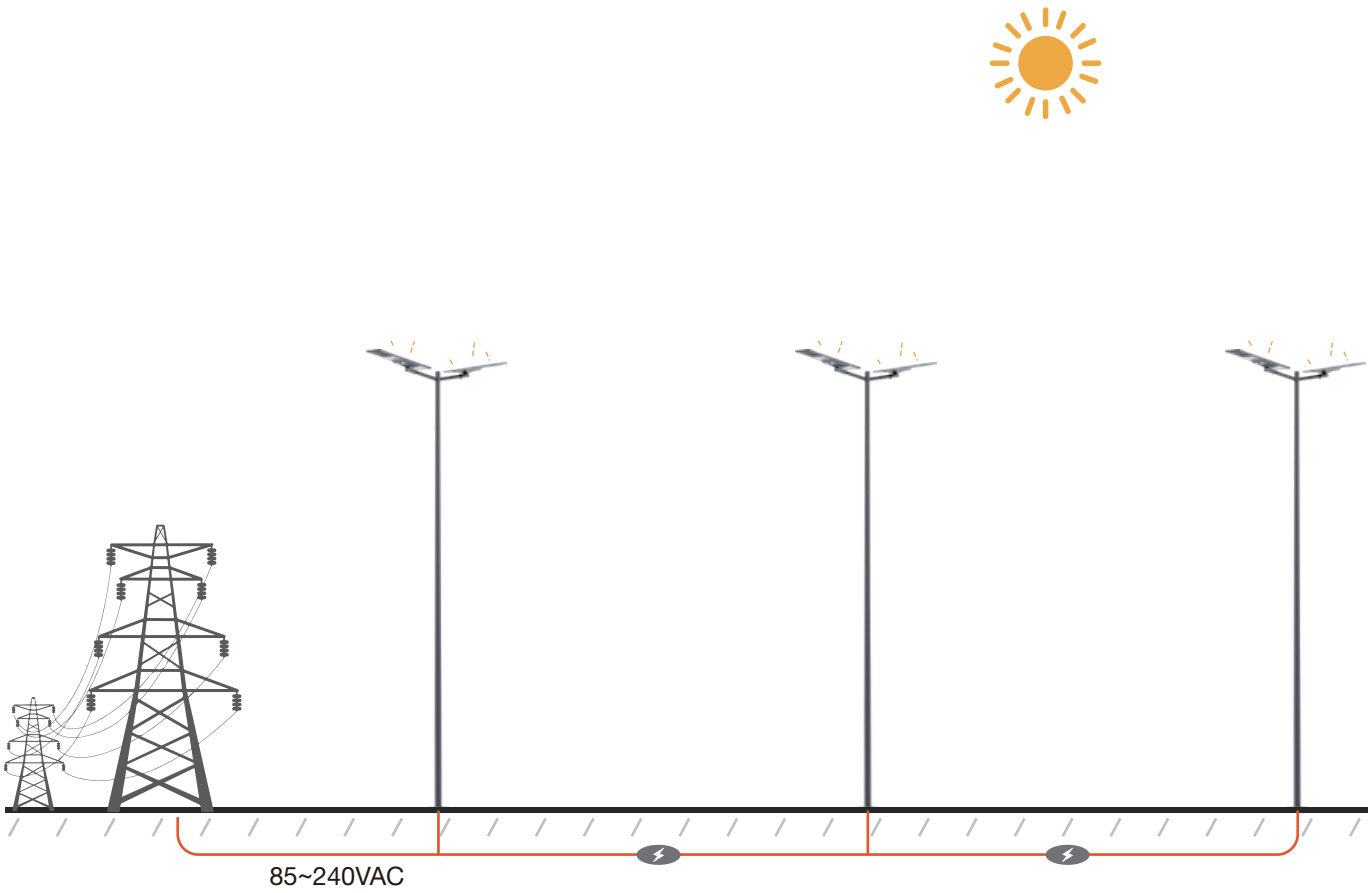
Advantages

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



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.



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.

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AURORAS INNOTECH GUANGDONG CO., LTD.

Website :
www.auroraslighting.com

Email :
Sales@auroraslighting.com

China Headquarter :
903# Block A, Gree Innovation City, Zhuhai 519000 CHINA

WhatsApp :
+86 180 2307 5361

Telephone :
+86 0756-8530887

Saudi Factory :
Street 59# Al-Kharj Industrial City, Riyadh SAUDI ARABIA