

Professional Solar Lighting Solution Provider

Providing superior, cost-effective, and reliable solar lighting solutions



Best Solar Lighting Supplier

9 years of experience in road lighting project.

23 years of expertise in lighting manufacture.

Hundreds of optics support by professional optical engineers team.

Global quality standards with CE, RoHS, CB, ENEC, ENEC+ certifications.

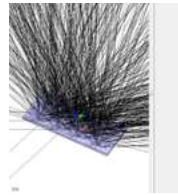
Serving overseas customers in 70 countries.



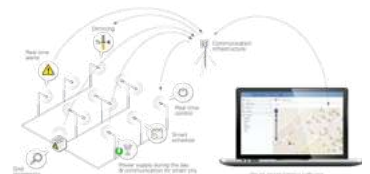
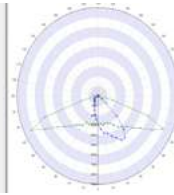
Product Design



Global Certification



Optical Design



Smart control systems

About Us

Aimlux is dedicated to providing superior, cost-effective, and reliable road lighting solutions, customized to meet customers' needs.

We boast specialized and highly experienced teams dedicated to bid study, product match, lighting simulation, bid document submission, and sample provision to support your projects comprehensively.

Comprehensive technical support and services

At Aimlux, we boast specialized and highly experienced teams dedicated to bid study, product match, lighting simulation, bid document submission, and sample provision to support your projects comprehensively.

Additionally, we have established Aim Optics System with leading optic suppliers, provide hundreds type of optics lens for each product. We also provide customized optics to meet specific project requirements.

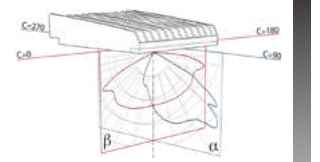
With Aimlux, you can expect dedicated expertise and tailored solutions to enhance the success of your lighting projects.

Factory & Product Certifications Quality Assurance

At Aimlux, our road lighting products are backed by extensive certifications and test reports, including IP, IK, CE, RoHS, CB, ENEC, IEC62471, LM80, LM79, and more. These certifications ensure that our products meet stringent quality and safety standards.

We have a deep partnership with TUV certification authority, enabling us to quickly provide certification services or support when you need specific certifications for your projects.

Aimlux is committed to delivering certified and high-quality road lighting solutions tailored to your requirements.





AL-SSB4 is a high-power fully integrated solar street light system, with a maximum output of up to 400W. Its larger housing allows for bigger solar panels and higher-capacity batteries, ensuring full-power coverage and extended backup. Designed for reliability and simple installation, it offers outstanding performance while reducing overall project costs.

Product Features

- Maximum output of up to 400W
- High-performance LiFePO4 battery with 5000 cycles at 50% DOD and over 10 years of lifespan, operating from -40°C to 65°C.
- Professional road optical lens controls light for precise and effective illumination, improving lighting efficiency by 35%.
- Central indicator light displays real-time operating status and battery level.
- Adjustable mounting bracket supports both vertical and horizontal installation.

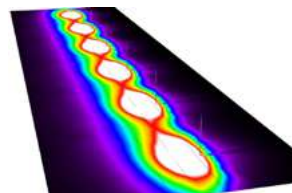
Design Highlights



Central indicator light



Up to 400W



Professional road optical lens



Smart Control System

Application



ROADS
& MOTORWAYS



URBAN
& RESIDENTIAL
STREET'S



BIKE
& PEDESTRIAN
PATHS



BRIDGES



CAR PARKS



SQUARES
PEDESTRIAN
AREAS



RAILWAY
STATIONS
METROS

Technical Parameters

General

Working Temperature	Temp:-40℃ -+65℃ Humidity:10%-95%
Working time	3-6 Days
Protect Grade	IP66/ IK08
Electrical class	Class III EU
Materials	Aluminium+PC
Finish	Polyester powder coating
Color	RAL 9005
Lifetime expectancy	10 Years
Warranty	5 Years
Control	Solar lighting control system Zhaga socket (Optional)

LED Module

Optic	Type-II/Type-III
LED colour temperature	2200K-6500K
CRI	> 70/ > 80
Lifetime of the LEDs @TA 25℃	100,000h- L95

Solar Panel

Technology	Monocrystalline silicon cells
Power(Wh)	30/100/200/300/400
Short Circuit Current:	6.67A
Max operating Voltage:	21.6V
Lifetime expectancy	25 years

Battery

Technology	LiFePo4
Voltage	12.8V
Capacity(Ah)	18/24/30/36/48/54
Operating temperature	-40℃ to 65℃ -40°F to 149°F
Matterial box	Aluminium
Battery charging & discharging cycles	5000 Cycles @ 50% DOD
Lifetime expectancy	>10 years
Charge controller type	MPPT

Product Dimensions



Family	Power (W)	Lumens (Lm)	Product Size(mm)	Packing Size(mm)	NW (Kg)	GW (Kg)	20GP (Pcs)	40GP (Pcs)
AL-SS-B4	40	8000	785*410*60					
	100	20000	1675*415*60					
	200	40000	1750*600*60					
	400	80000	1795*1100*60					

Global Quality Standard

Our factory is ISO9001 and ISO14001 certified, offering OEM/ODM/SKD services. With a professional production and QC team, we ensure high-quality products at competitive prices, backed by excellent service.



ISO 9001:2015 ISO



14001:2015



SGS



TUV-CB



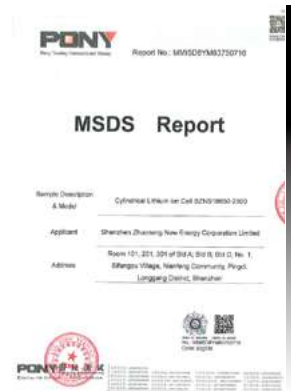
ENEC



ROHS



CE



MSDS



IP-66 Test



IK-10 Test



Salt-frog-test



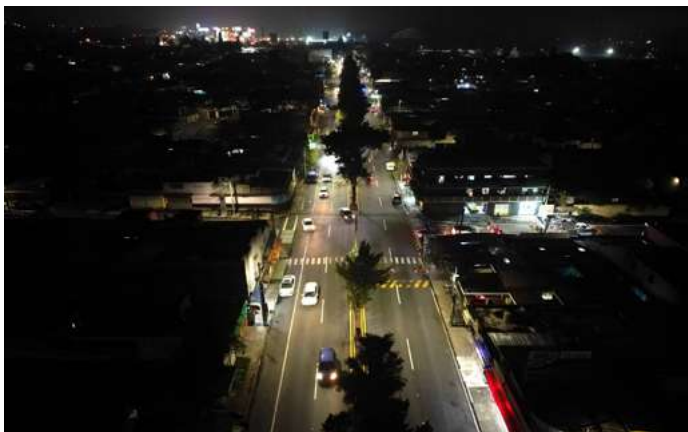
Vibration-test



Thailand



Philippines



Brazil



Poland

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