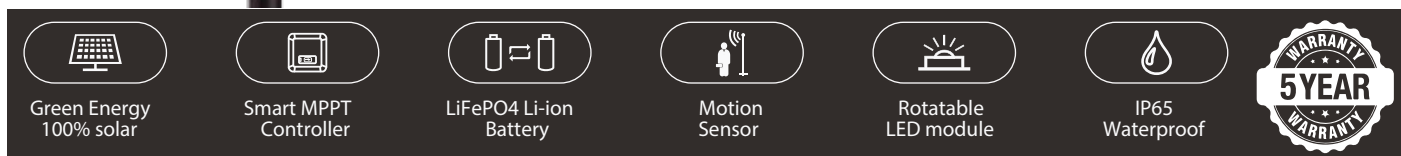


SOLAR STREET LIGHTING



IZUMI LED
TECHNOLOGY OF JAPAN



Product Description

IZUMI LED is the perfect solar lighting for the outdoors, it caters requirements of all applications, IZUMI LED has wide power ranges from 50W to 180W which apply pole heights from 5 meters to 14 meters. The strong point of IZUMI LED 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 IZUMI LED series solar lights is the perfect choice to help you expand your solar lighting business.

Compliance

- CE
- ROHS
- CB
- IP65



Application

- Streets, paths and bike paths
- Residential streets
- Shared zones, commercial
- Streets in urban areas
- Rural roads, Urban roads
- Motorways and ring roads



Warranty

5-year design lifespan

LED lumen maintenance: L70> 50,000

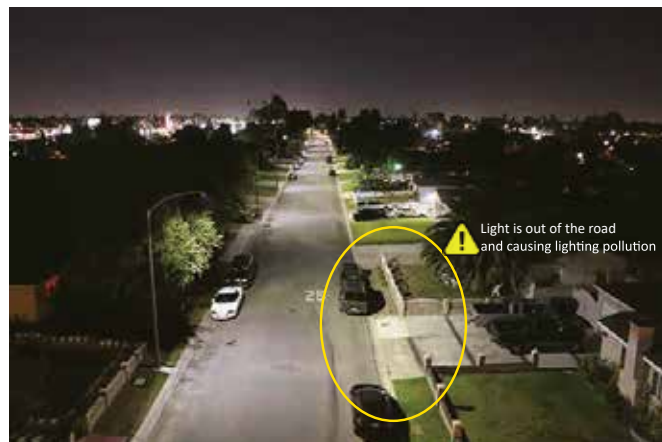


The rotatable led module

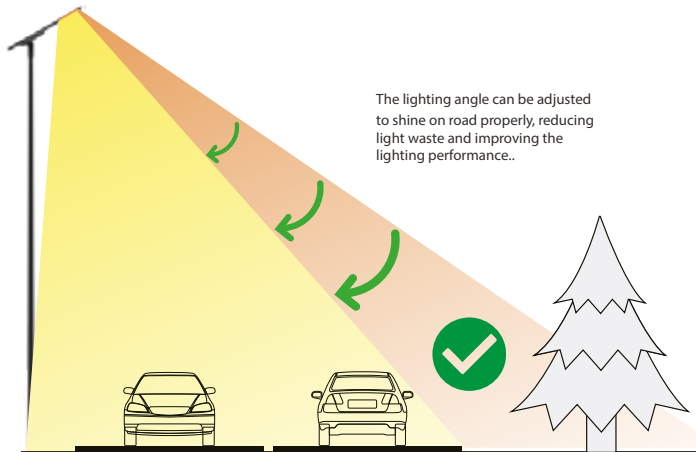
Due to the high integration of the integrated street light, it is easy to install and greatly reduces the installation cost and other costs. However, since the angle of the sun is different in each country or region, ordinary all-in-one solar street lights cannot adjust the angle according to the position of the sun. The light of the lamp can only be irradiated to places other than the road surface, which causes a waste of light and may cause light pollution. Or in order to allow the light to shine on the road as much as possible, but it is impossible to make the solar panel the most suitable angle for facing the sun.

IZUMI LED series solar street lights perfectly solve the problems mentioned above.

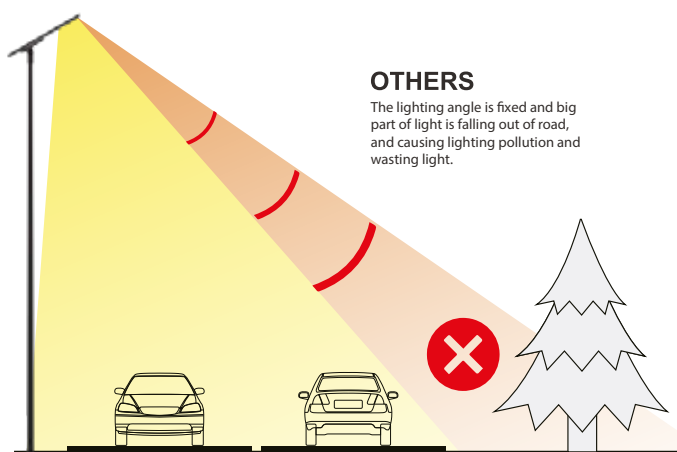
IZUMI LED adopts high-strength, angle-adjustable, and beautiful die-casting aluminum brackets, and at the same time allows the LED light source module to have the function of adjusting the angle. Each LED module has the angle can be adjusted manually, with self-locking function, without wrench adjustment, so that the light can be properly irradiated on the road, which greatly improves the efficiency of light use, and can also make the solar panel face the sun to maximize the power generation efficiency.



VS



Performance of IZUMI LED AIO Solar Street Lights



Performance of Other AIO Solar Street Lights

• High-end project level

IP65: the dust density completely prevents the foreign matter invasion, and may completely prevent the dust invasion, prevents the spray water invasion, prevents from all directions by the nozzle spray water enters the lamps and lanterns to cause the damage;
Ko8:10J Impact Force (equivalent to the impact of a 5KG object falling from a height of 200mm on a surface) .

IP65



IK08



Solar Street Lighting

High efficiency LED engine

The lighting engine uses high-efficiency 5050 LED, the luminous efficiency is up to 180lm/W. The optics are made of anti-ultraviolet PC, which has anti-aging and impact resistance performance, realizing long-term use.

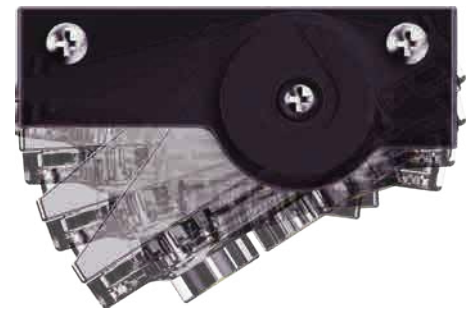
The proper beam angle of led optics helps with the lighting distribution without a black area between poles and lighting is more uniform and improves the utilization of the light.



Auto-lock gear system

All of the led modules are rotatable with built-in auto-lock gears. The lighting angle could be easily adjusted manually according to different installation conditions to make the light fall on the road as much as possible without any shining out of the road.

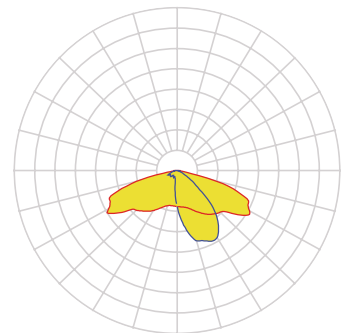
The adjustment range is $+30^{\circ} \sim -10^{\circ}$, which can be adjusted according to the needs of the environment to apply to various installation environments.



Batwing-wing light distribution

The latest patented light source technology realizes the light emitted from the light source to form a bat wing shape through the special structure of the lens.

Achieve the best uniform illumination, improve the lighting effect, and increase the light coverage. Plenty of lighting distribution is available to meet any requirement of your projects.



Quality Components

IZUMI LED is committed to providing the most reliable quality for projects level, all of the components are super high quality, it adopts MPPT solar charge controller with 97% charging efficiency and 180lm/W high luminous efficiency LED chips.

The brand new battery with a lifetime up to 6000 cycles at D.O.D of 80% is equipped. 5 years warranty is offered for the complete light system.



Technical Parameter

• Electrical

Specification	AIO-50WZ	AIO-60WZ	AIO-80WZ	AIO-100WZ	AIO-120WZ	AIO-140WZ
Power	50W	60W	80W	100W	120W	140W
LiFePO4 battery	12.8V 384WH	12.8V 460WH	12.8V 614WH	12.8V 768WH	25.6V 921WH	25.6V 1075WH (max battery capacity 25.6V 1536WH)
Solar panel		18V 82W	18V 103W	18V 125W	36V 135W	36V 158W
LED module	SMD5050 32pcs	SMD5050 32pcs	SMD5050 48pcs	SMD5050 64pcs	SMD5050 64pcs	SMD5050 80pcs
CCT range	2200K~6500K					

• Optical

Specification	AIO-50WZ	AIO-60WZ	AIO-80WZ	AIO-100WZ	AIO-120WZ	AIO-140WZ
Lumens (lm)	8,500lm	10,200lm	13,600lm	17,000lm	20,400lm	23,800lm
Lumens/ Watt	170	170	170	170	170	170

• Mechanical

Specification	AIO-50WZ	AIO-60WZ	AIO-80WZ	AIO-100WZ	AIO-120WZ	AIO-140WZ
Installation height	4 ~ 8m	5 ~ 8m	6 ~ 10m	6 ~ 12m	8 ~ 12m	8 ~ 14m
Product size		1100*420 *350mm	1300*420 *350mm	1590*420 *350mm	1360*530 *380mm	1480*530 *380mm
Solar charge controller	MPPT with sensor	MPPT with sensor	MPPT with sensor	MPPT with sensor	MPPT with sensor	MPPT with sensor
Pole size	76mm				76mm	

Remark :

CCT of 3000 K or lower is required for IDA certification compliance.

When installing, the led module should be in the downward position and facing to ground, and solar panel is facing upward to the sun.

Product Dimensions



Various programs are built inside and be chosen by remote easily. Summer mode and winter mode are available for more days of battery backup.



Smart wireless Zigbee control scheme is available, using European standard ZHAGA connector.



Adopt MPPT solar controller with efficiency up to 97% to improve charging efficiency.



The led module is rotatable, lighting angle is adjustable to make more light to fall on the road without wasting light.



Adopting modular structure design, the battery box and solar panel are easy to disassemble

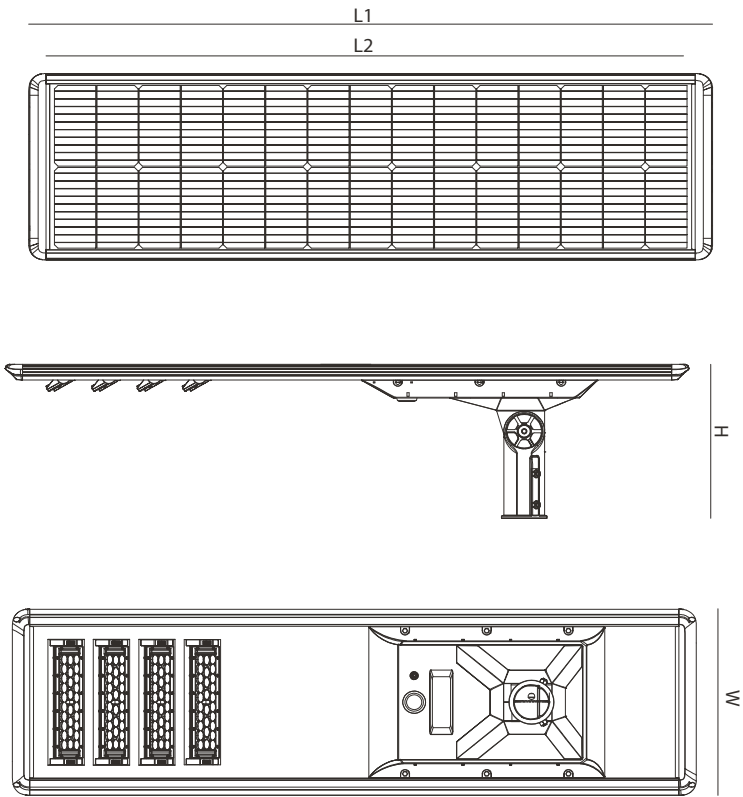


The use of 5050 lamp beads improves the luminous efficiency of the lamp beads, which can reach 180lm per watt.

• Structural Mechanics

the combatant series light source adopts modular design, corrosion-resistant aluminum alloy shell, and tempered stainless steel
the combatant series adopts ip65 and ik08 shell, which increases the strength. it is carefully designed and durable, and can be controlled no matter in rain, snow or storm.

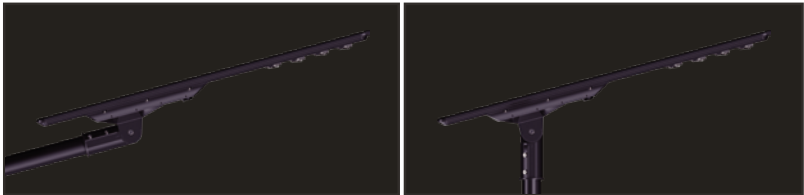
Photometry



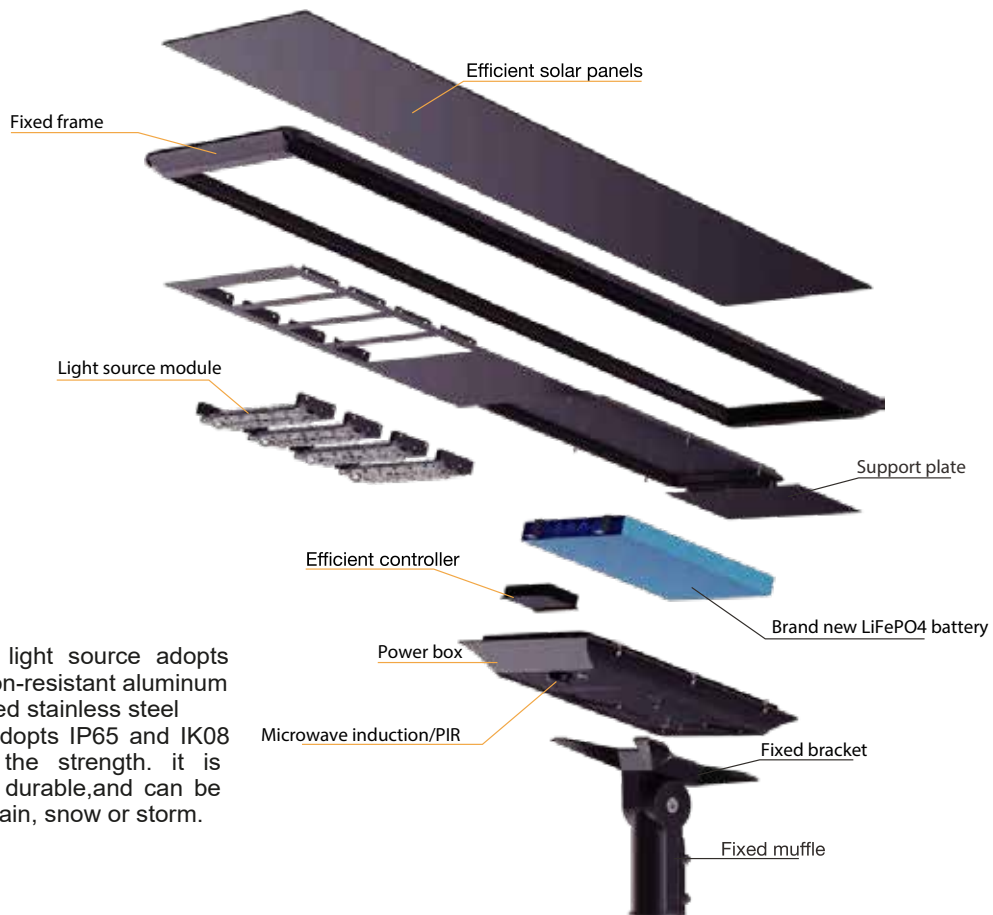
Unit: mm

Model	AIO-50WZ	AIO-60WZ	AIO-80WZ	AIO-100WZ	AIO-120WZ	AIO-140WZ	AIO-160WZ	AIO-180WZ
L1	1100	1100	1300	1590	1360	1480	1730	1880
L2	1050	1050	1250	1520	1310	1430	1680	1830
W	420	420	420	420	530	530	530	530
H	350	350	350	350	380	380	380	380
Net Weight	12.30kg	14.60kg	18.50kg	23.50kg	26.50kg	29.50kg	32.50kg	35.50kg

• Rotatable Bracket



Structural Mechanics



The combatant series light source adopts modular design, corrosion-resistant aluminum alloy shell, and tempered stainless steel the combatant series adopts IP65 and IK08 shell, which increases the strength. It is carefully designed and durable, and can be controlled no matter in rain, snow or storm.

• The Remote Control

Solar-key is a powerful remote control with multiple built-in lighting programs. With the help of the customized high efficiency mppt solar controller, it allows you to change the working settings of solar lights easily as you need. Solar-key remote contains the most popular lighting programs which are based on different solar radiation in countries and regions. No matter in the middle east and south america where the sunshine is relatively abundant, or in Europe where the sunshine is relatively weak, you can set the most suitable working state of the lamp setting.

The luminaire turns on & off automatically from dusk to dawn

The luminaire works at a HIGH power with more luminous output

The luminaire works at 100% for 4 hours then works at 30% power and at 100% when the sensor is triggered

The luminaire works at 30% power and at 100% when the sensor is triggered for the whole night

Solar-Key
CE

The luminaire will not work at night but it will charge the battery in the day time

The luminaire works at a LOW power with less luminous output

The luminaire works at 100% power for 4 hours then works at 30% power in the rest time without sensor

The luminaire works at 100% for 1 min even if it is charging. This is for demonstration purpose.

Remark:
The default lighting program is Mode C.
*Available for 60/80W only