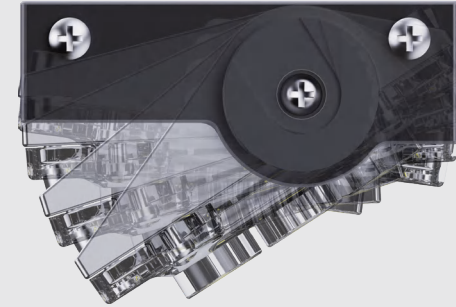




## High efficiency LED engine

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.

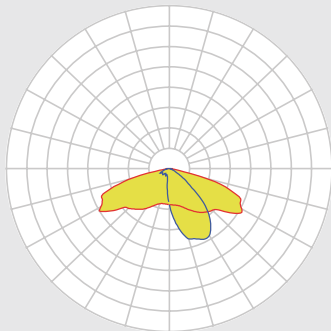
The proper beam angle of led optics helps with the lighting distribution without a black area between poles and lighting is more uniform and improves the utilization of the light.



## 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

ZAIN 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 210lm/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.

## Main Specification

Item number	<i>AIO-50WZ</i>	<i>AIO-60WZ</i>	<i>AIO-80WZ</i>	<i>AIO-100WZ</i>
LED power & luminous	50W   8,500lm	60W   10,200lm	80W   13,600lm	100W   17,000lm
CCT range	2200K~6500K	•	•	•
LED module	SMD5050 32pcs	SMD5050 32pcs	SMD5050 48pcs	SMD5050 64pcs
LiFePO4 battery	12.8V 384WH	12.8V 460WH	12.8V 614WH	12.8V 768WH
Solar panel	18V 64W	18V 82W	18V 103W	18V 125W
Product size	910*420*350mm	1100*420*350mm	1300*420*350mm	1590*420*350mm
Solar charge controller	MPPT with sensor	•	•	•
Pole size	76mm	•	•	•
Installation height	4 ~ 8m	5 ~ 8m	6 ~ 10m	6 ~ 12m
Certificates	CE ROHS CB IP65	•	•	•
Warranty	5 years	•	•	•

Item number	<i>AIO-120WZ</i>	<i>AIO-140WZ</i>
LED power & luminous	120W   20,400lm	140W   23,800lm
CCT range	2200K~6500K	•
LED module	SMD5050 64pcs	SMD5050 80pcs
LiFePO4 battery	25.6V 921WH	25.6V 1075WH ( max battery capacity 25.6V 1536WH)
Solar panel	36V 135W	36V 158W
Product size	1360*530*380mm	1480*530*380mm
Solar charge controller	MPPT with sensor	•
Pole size	76mm	•
Installation height	8 ~ 12m	8 ~ 14m
Certificates	CE ROHS CB IP65	•
Warranty	5 years	•

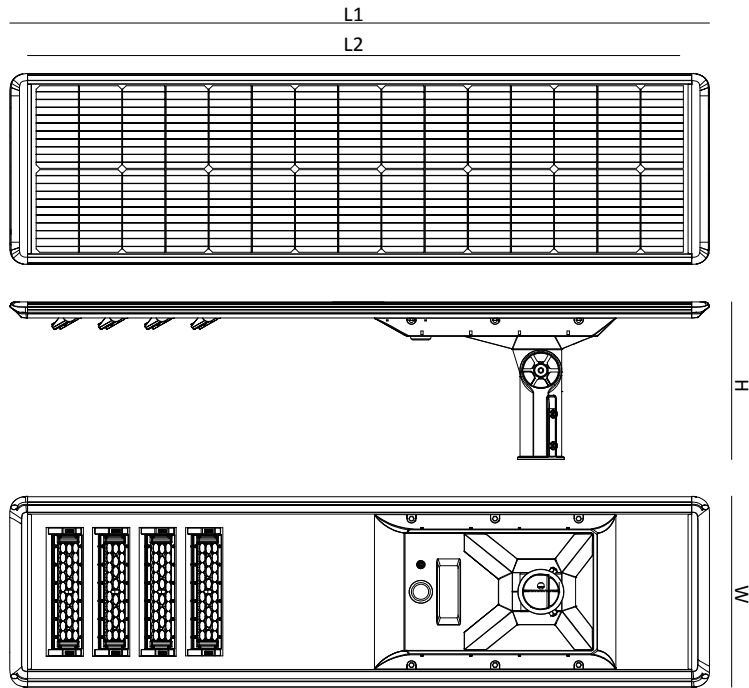
Remark :

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 Dimension



## 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

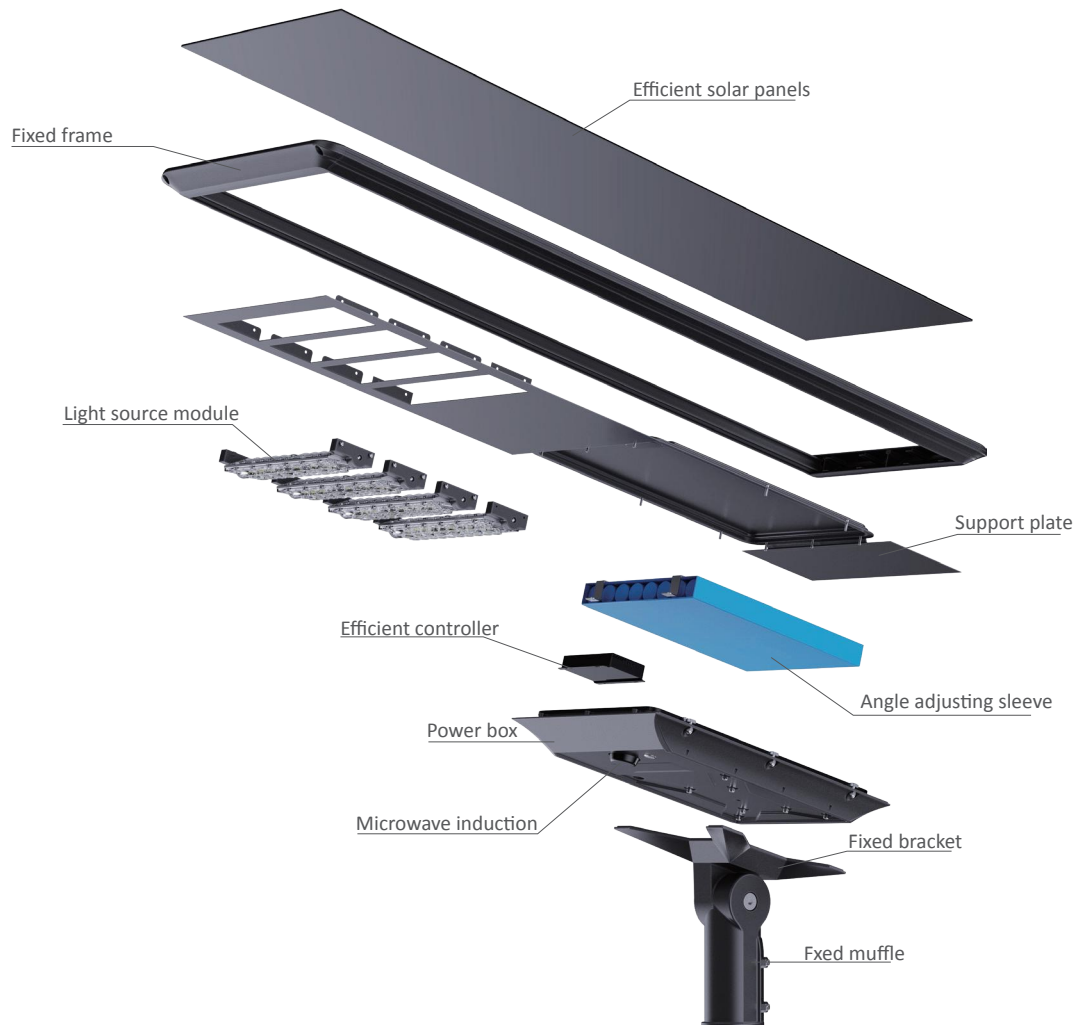


Unit : mm

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

# 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.



# Rotatable Bracket



# Application

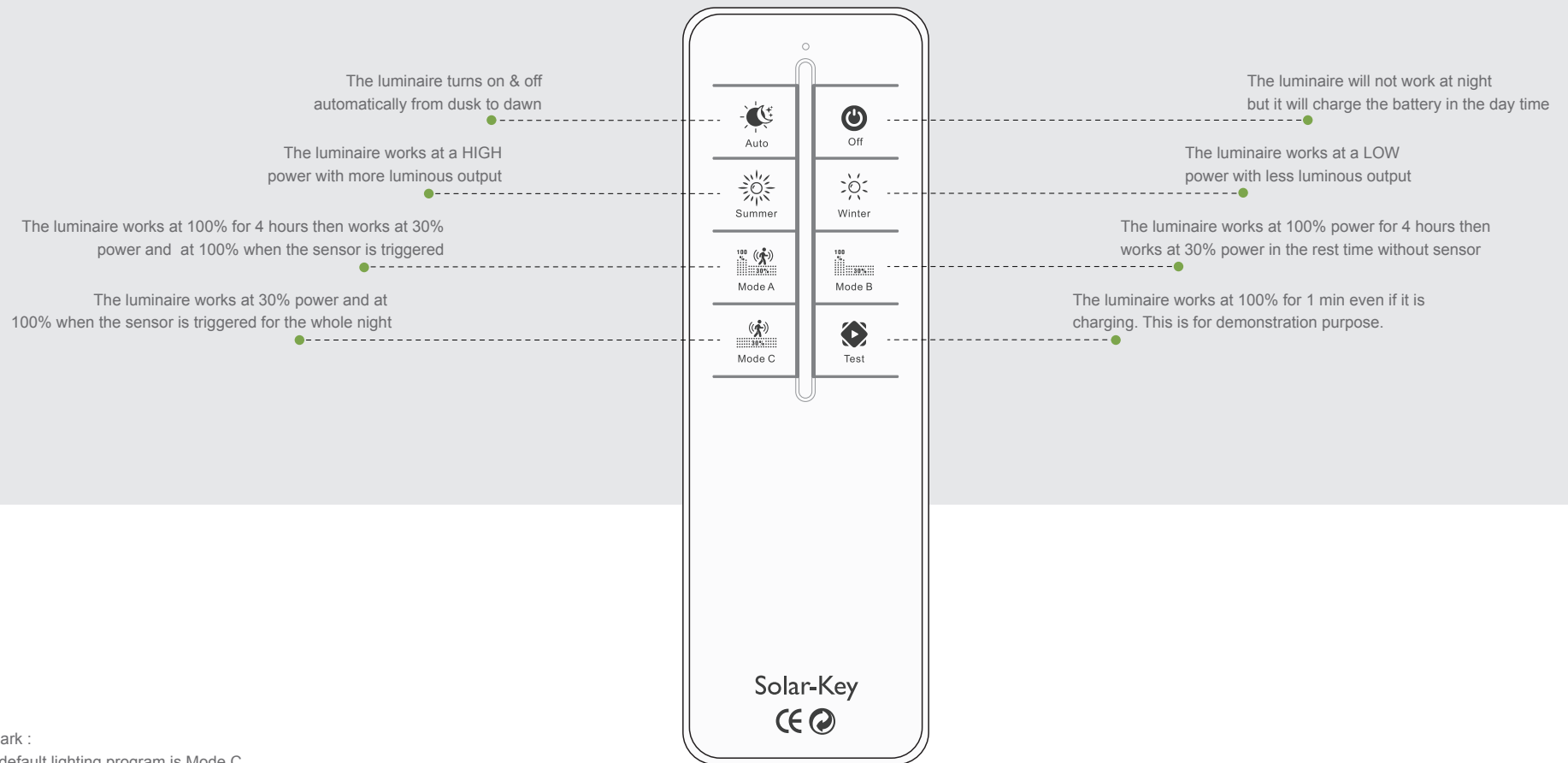
- Streets, paths and bike paths
- Residential streets
- Shared zones, commercial
- Streets in urban areas
- Rural roads, Urban roads
- Motorways and ring roads



# 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 is 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 The most suitable working state of the lamp setting.



Remark :  
The default lighting program is Mode C.