







on Motion Sensor



50W 7800lm All in one Solar LED Street Light







MILIO 50W 7,800lm

AIO Integrated Solar Street Light

MILIO is a compact solar light that can provide all-around lighting, suitable for poles of 4 meters to 6 meters, and various installation environments like car parking areas, pedestrian paths, etc. It can be mounted on a straight bar or plugged into the arm of the pole. The led engine is designed with an inclined angle to improve the utilization of light. It has a built-in MPPT solar controller with a charging efficiency of up to 97% and a brand-new top-quality A-grade lithium iron phosphate battery. The motion sensor is also equipped.

You can use the remote control to set different working modes to meet various lighting needs whether it is winter or summer, it can provide stable lighting services 365 days a year.

 Item Number
 : AIO-50WM

 Max Led Power
 : 50W

 Peak Luminous Flux
 7,800lm

 CCT
 : 2700K~6500K

 LED Chip
 : 24pcs SMD5050

CRI : >79

LiFePO4 Battery : 384WH 12.8V Solar Panel : 60W 18V

Solar Charge Controller : MPPT with PIR remote

Lighting Program : 2H 100% +4H(30%+70% sensor)

+7H (20%+50% sensor)

Plug-in Installation : 60mm

Straight Pole Installation : 60mm~80mm

Warranty : 5 years





High Luminous Output

The high -brightness SMD5050 is used as the core light source to integrate high -efficiency LED technology, which aims to provide stable, energy -saving and environmentally friendly lighting solutions.



Motion Sensor

PIR Motion Sensor with upto 10m wide range human body infrared rays detector - it gathers automatic convenient, safe energy saving, functions.



MPPT Solar Controller

Smart solar charge controller with LED driver inbuilt with multi-period control, charging and discharge efficiency more than 97%. IP67 waterproof and high-temp resistant.



Long Autonomy

Up to 12 hours solar light head can work with 100% power continu- ously. Using 0energy saving modes, Autonomy can reach to 3~4 days max without charging.



Long Lifetime

Using superb quality battery with long lifetime. deep cycles. Working well in low and high temperatures at -20°C~+65°C. Mainte- nance free for years without extra cost.



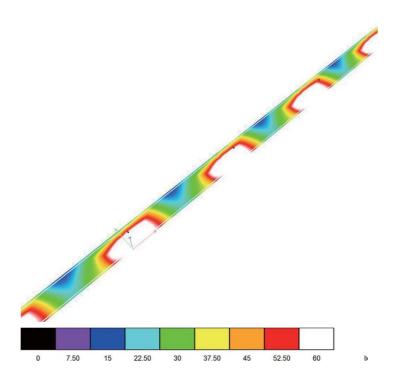
Lighting without Blackout

The system is well balanced between the power generation and consuption with the smart control system. The led power is automatically adjustable according to the battery voltage and the seasons changes all the year round ensuring all lighting service without black out.

Ultra Slim LED Optic

Optics is a very important component of the whole solar street luminaire while it is always neglected. LEDil optic is adopted for all models of sunrise solar street light. The suitable optic will be determined according to the project conditions which are related to the road width, the steel pole height, and distance between poles, etc

MILIO is equipped with specially designed LED optics which is to illuminate the main road without wasting light out of road. It use a very narrow but very long lighting distribution pattern which ensures there is no black dot between the poles. With high brightness output and super narrow lighting distribution, it deliver a very smooth and uniform performance on the road, meanwell with the help of longer lighting distance, there will be less quantity of poles which reduce the project cost a lot.





Lighting Distribution Pattern

Grid: 10 x 3 Points

Observer Position: (-60.000 m, 1.850 m, 1.500 m)

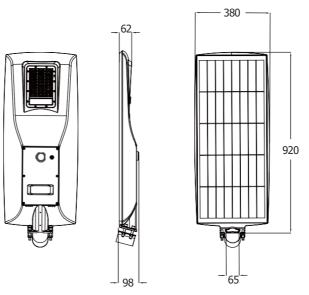
tarmac: R3, q0: 0.070

	L _{av} [cd/m²]	U0	Ul	TI [%]
Calculated values:	2.47	0.57	0.73	5
Required values according to class ME4a	≥ 0.75	≥ 0.40	≥ 0.60	≤ 15
Fulfilled/Not fulfilled:	1	1	1	1

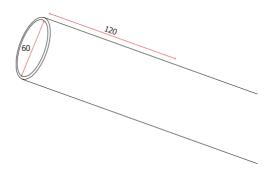
Key Components



Product Size



Pole Size of Plug-in Installation



Unit: mm



MPPT Solar Controller

Item Number : MES-60W

System Voltage : 12V

Output Current Range : 50~3000mA

Max. PV Power : 140W/18V

Tracking Efficiency : 98%

Load Output Voltage : <60V

Max Load Power : 60W max

Motion Sensor : Microwave

Working Temp. : $35^{\circ}\text{C} \sim +65^{\circ}\text{C}$

IP Rate : IP68

Warranty : 5 Years



LiFePO4 Battery

Battery Spec : 12.8V-30AH

Nominal Capacity : 12.8V 384WH

Dimension (L*W*H) : 290*210*36mm

Battery Cell : 32700 3.2V 6AH

Charge Mode : C.C + C.V

Charge Cut-off Vol : 14.6±0.05V

Discharge Cut-off Vol: 11±0.05V

Storage Temp. : 5° C ~ 35° C

Operating Temp. : $-20^{\circ}\text{C} \sim 65^{\circ}\text{C}$

Lifetime (D.OD.50%) : 4,000 cycles

Warranty : 5 Years



Solar Panel

Model number : MSD-60W

Peak Power : 18.0V

Max. Power Voltage : 4.45A

Solar Cell Efficiency : >22.5%

Quality Grade : A grade

Solar Cell : Mono

Operating Temp. : -40°C- +85°C

Lifetime : 25 years > 80%

Warranty : 5 years

IP rate : IP65

Certifications : CE, ROHS IEC61215



AIO Integrated Solar Street Light

