



All in One Solar Street Light 2020 Best Designs

The MARS series all in one solar LED street luminaire has slim and fully integrated design for installation in areas with no electrical infrastructure or requiring an autonomous lighting system. Powered by photovoltaic solar energy, the luminaire has its own power source, charge controller, batteries and LED board, all integrated into a single ultra-thin block that facilitates installation, maintenance and prevents vandalism. Uses high durability compact lithium battery and electrical system developed for better performance and economy.

With intelligent light detection system the luminaire automatically turns on at dusk and goes off at dawn, and is dimmerized automatically through the motion sensor to further optimize the product's autonomy.



Performance

- IP65, IK08
- Shelf life 25 years
- Presence sensor
- Lithium battery
- Optical system designed for squares and parks

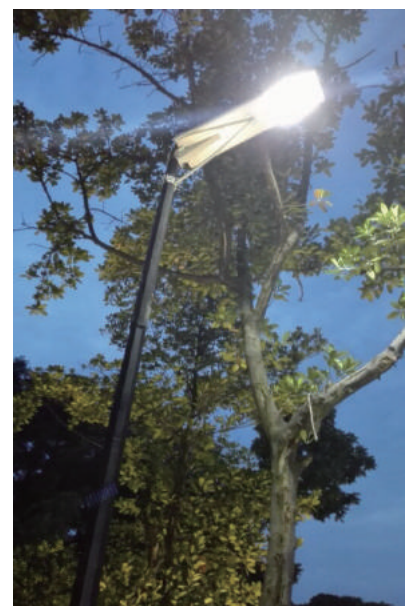
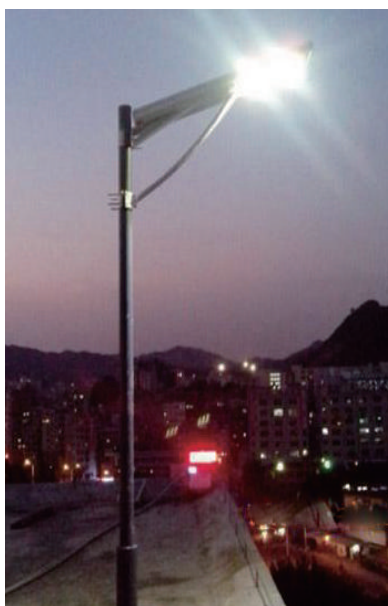


Advantages

- Three years warranty.
- Easy Installation
- Fully integrated solar technology
- Top pole and wall option
- Light and resistant



Finished Project





Models Picture



Model: AIO-15W



Model:AIO--20W



Model:AIO--30W



Model: AIO-40W



Model:AIO--60W



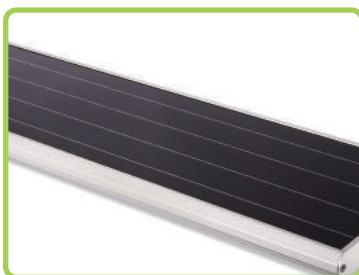
Model:AIO--80W

Key Components



Lithium Battery

High quality, long lifetime, high Temperature resistant. Up to 2000 cycles (DOD 70%),



Mono Cell Solar Panel

Class A grade MONO cell, up to 19.6% efficiency, 25 years lifetime, Free maintenance.



Solar Controller+Sensor

MPPT Controller builtin, charging faster by 30% than PWM controller.



Technical Data

General	AIO-15W	AIO-20W	AIO-30W	AIO-40W	AIO-60W	AIO-80W
System Power	15W	20W	30W	40W	60W	80W
System Voltage	12V constant current					
Automatic Dimming	30 to 50% of total power					
Operating Tem.	-40 ° C ~ + 60 ° C					
Electrical Protection	Short Circuit, Overvoltage, Overcurrent, Overheat					

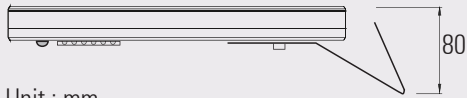
Solar Panel	AIO-15W	AIO-20W	AIO-30W	AIO-40W	AIO-60W	AIO-80W
System Power	20W	35W	50W	60W	80W	100W
System Voltage	18V	18V	18V	18V	18V	18V
Max Current	1.1A	1.9A	2.8A	3.3A	4.5A	5.6A

General	AIO-15W	AIO-20W	AIO-30W	AIO-40W	AIO-60W	AIO-80W
Battery Type	12AH 12V	16AH 12V	24AH 12V	32AH 12V	48AH 12V	64AH 12V
Operating Autonomy	6 hrs power / 16 hrs dimarizado 50% (total load in day of sun).					

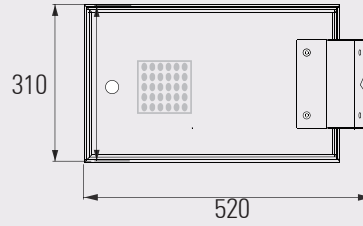
Photometric Features	AIO-15W	AIO-20W	AIO-30W	AIO-40W	AIO-60W	AIO-80W
LED Source Type	30 LEDs	30 LEDs	60 LEDs	56 LEDs	112 LEDs	112 LEDs
Flux (@ T65 ° C)	>1,800lm	>2,600lm	>4,200lm	>5,200lm	>7,800lm	>9,600lm
CRI	>83					
Color Temp.	2700K ~ 6500K					
Beam Angle	IESNA Type II					
Depreciation Factor	L70 ≥ 50 000h					
Lifetime	Solar Panel: 90% up to 10 years, 80% up to 25 years / Battery: 5 years / Electrical Circuit: 10 years					
Efficiency (@ T65 ° C)	130±10lm/w					

Constructive Features	AIO-15W	AIO-20W	AIO-30W	AIO-40W	AIO-60W	AIO-80W
Body Material	Steel and aluminum sheet					
Lens Material	In PMMA with UV protection					
Installation	Mounting for pole from Ø40mm to Ø75mm / Wall bracket					
N.W Weight	7.8Kg	11.80Kg	13.4Kg	16.50Kg	19.60Kg	22.40Kg
Protection Grade	IP 65					
Impact Grade	IK08					

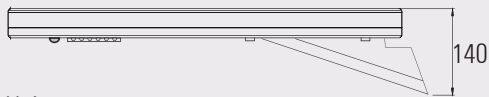
Model: AIO-15W



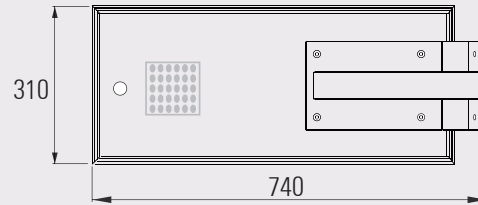
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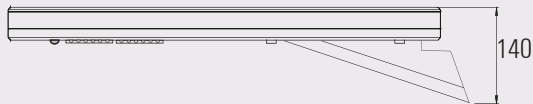
Model: AIO-20W



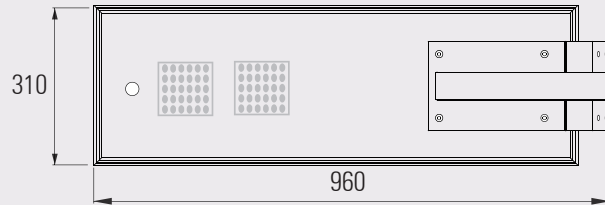
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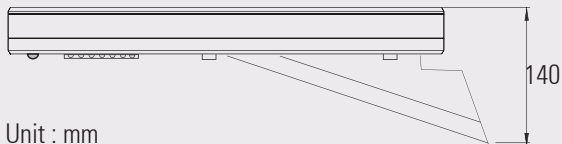
Model: AIO-30W



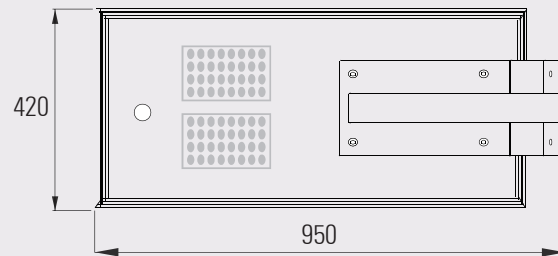
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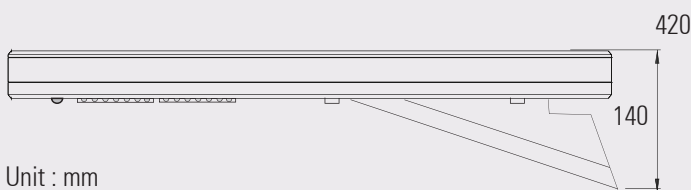
Model: AIO-40W



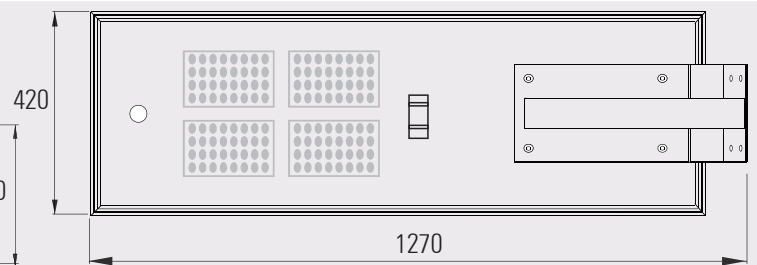
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Model: AIO-60W



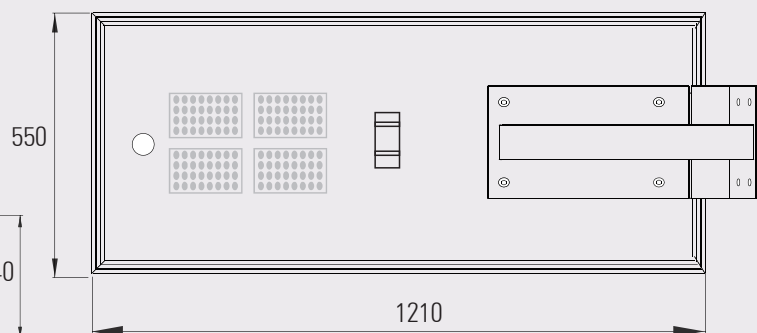
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Model: AIO-80W



Unit : mm





All in One Solar Street Light 15W~80W

