

Advantages

- 1.Solar Gemini light is new patented solar product.
- 2.It designs like an Gemini, familiar appearance, quite different experience.
- 3.Using lithium battery.
- 4.It has high luminous effect, multiply LEDs in every light, no use of optical lenses, decreasing light attenuation, maximize the luminous effects.
- 5.Microwave motion sensor and PIR sensor are optional.
- 6.Easy installation in few minutes.
- 7.The whole light can be adjusted.
- 8.Using lithium battery, long lifespan, suitable for extreme weather area.
- 9.All in one design, LED light, solar panel, lithium battery and inductor are in one body.



Details

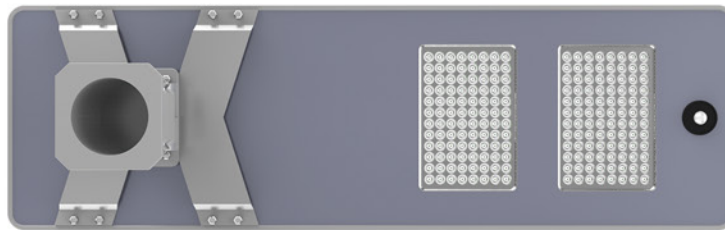


Monocrystalline Solar Panel

20% efficiency of photoelectricity conversion. Tempered glass cover.
20-25 years lifespan.

Philips LED chip

Adopt 1W/LED Philips LEDs.conversion.
Every light has many LEDs, greatly developing the light effect.

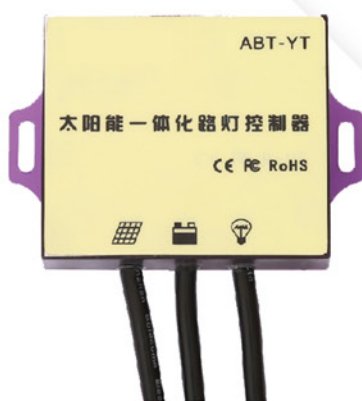


PWM controller

Monitor the working state of the light.
Charging and overcharging protection.
IP66 protecting rate.

Reflection cup

Using reflection cup, each cup has 120 reflection angles.
No optical lenses, decreasing the light attenuation, maximize the luminous effects, light transmittance can be up to 100%.

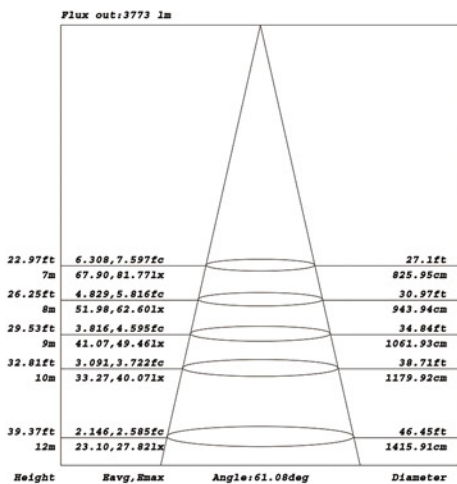




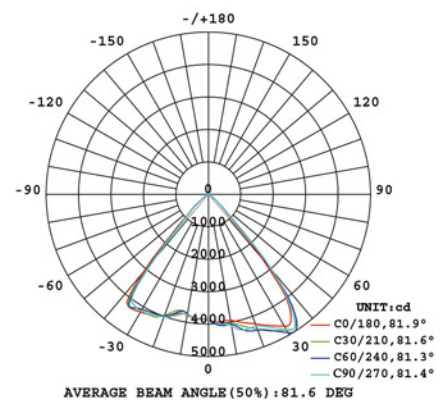
Lighting effect

By applying Philips high power LED chips, the all in one solar lights emits uniformly bright light. Total lamp output lumen efficiency reaches 160lm/w.

With mature LED lighting technology and intelligent control , the lifespan of the lighting source reaches 50000 hours, reducing energy consumption by almost 98%., It can be used to replaced 200 traditional street light.



LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



Remote Controller

OFF Button: Turn on or turn off light.

DEMO Button: Testing LED lamp mode, lamp power working by 20% (for example: default is 0%, press again, it will be 20%, again, increase to 40%, 0%-100% available), Period time is 1 minute.

L Button: Dusk to dawn mode (1 hours of 100%, 3 hours of 70%, 8 hours of 20%).

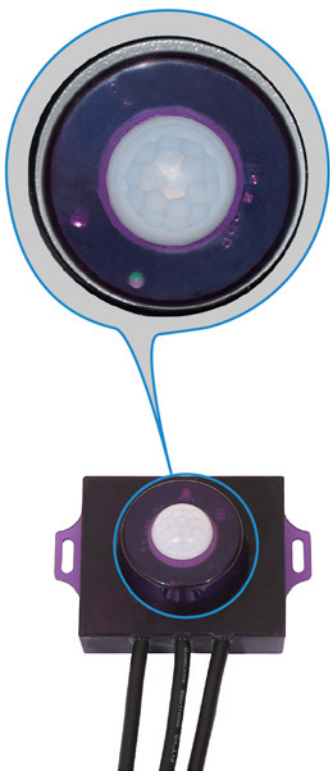
T Button: Time and light control Mode (2 hours of 100%, 2 hours of 70%, 2 hours of 50%).

M Button: Microwave Mode (Light turned on for 12 hours, 100% sensor, 20% not sensor.

U Button: 2 hours of 100%, 2 hours of 70%, 2 hours of 50%; 6 hours, 50% sensor, 20% not sensor.



PIR Sensor



1. PIR sensor: the led lamp will be 100% brightness when inducting human beings, 30% when not inducting human beings.

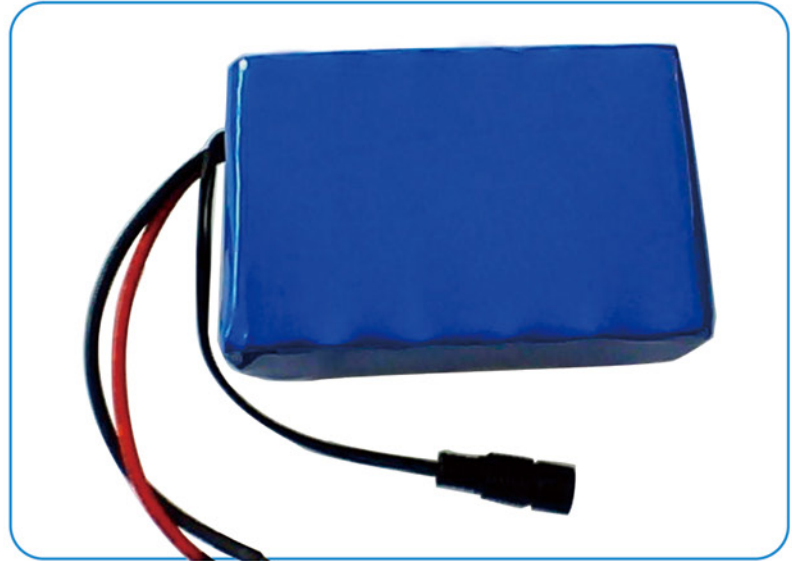
2. The green indicator light is flashing at charging status. At night the red indicator light is always on. At beginning, the green indicator is on means the battery voltage is normal, and the green indicator light is flashing slowly means the battery is full, and the red light is on means the battery is short of voltage.

Battery Management System

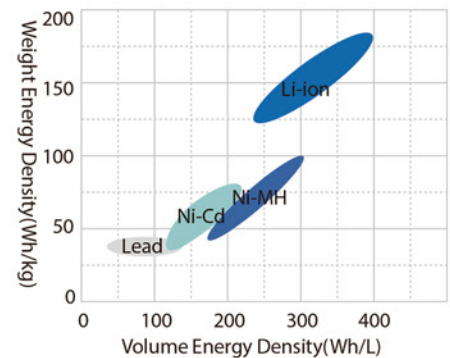
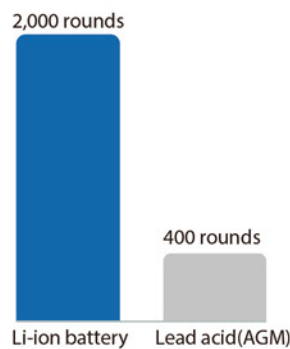
Using lithium iron phosphate batteries, compared to the lead-acid batteries, the discharge depth of 4 times higher cycle life of 5 times higher, and will not pollute the environment.

Long life battery + modular design

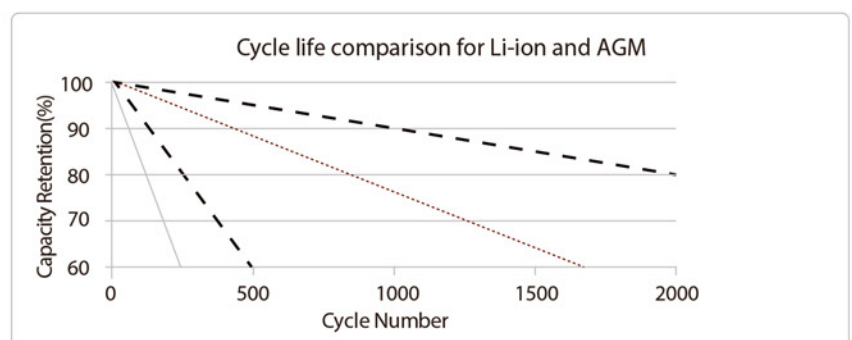
Lithium-ion battery has much high energy density than traditional lead acid(AGM) battery. With the same space, Li-ion can reach 42AH max while AGM only around 10AH.

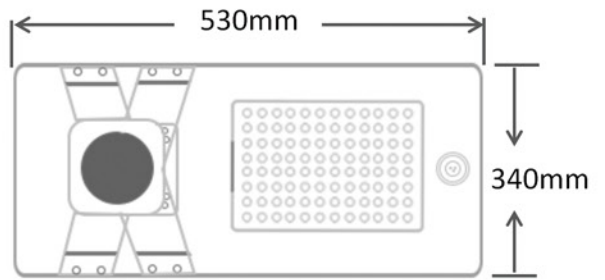


And Li-ion has a longer lifespan, under the same circumstances 1c, Li-ion runs 2000~3000 rounds. And Li-ion still has more than 80% of total capacity remaining.

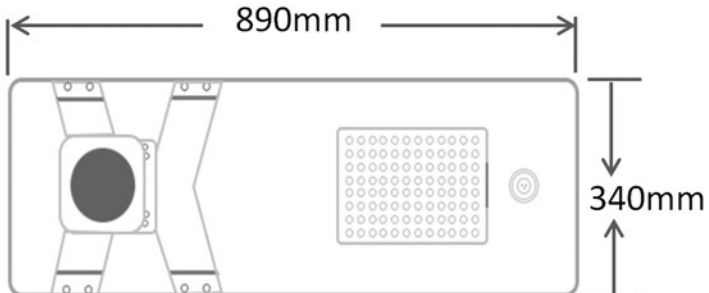
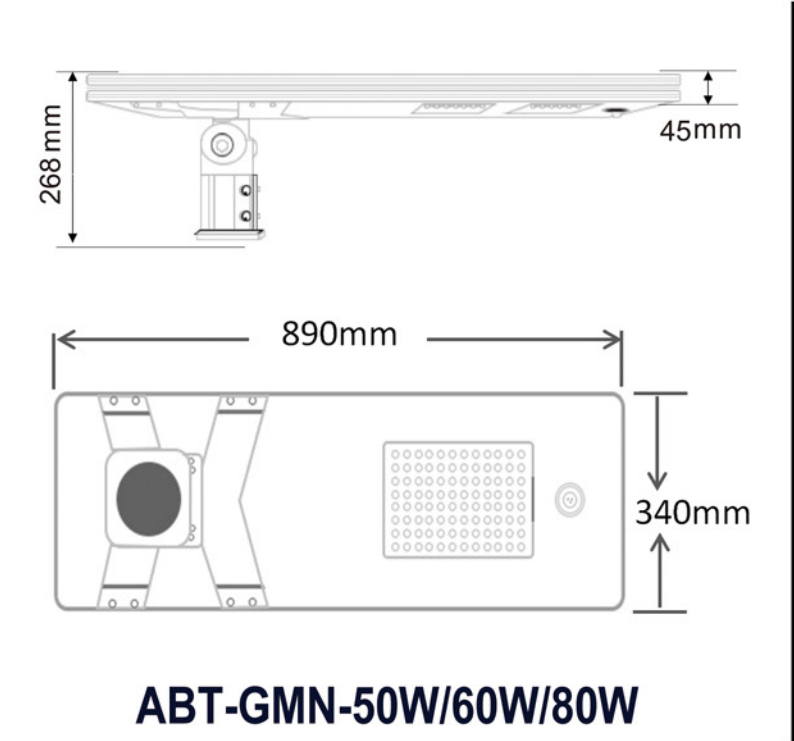


What's more, Li-ion is environmentally friendly. The lighting system uses replaceable modular design. Battery can be replaced easily.

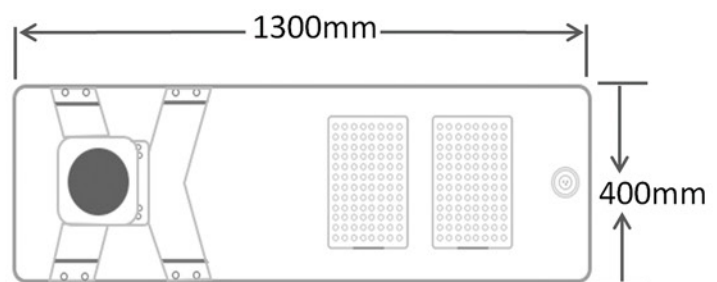




ABT-GMN-20W/30W/40W



ABT-GMN-50W/60W/80W



ABT-GMN-100W/120W

Technical Parameters

Model No.	ABT-GMN-20	ABT-GMN-30	ABT-GMN-40	ABT-GMN-50
LED Light	20W	30W	40W	50W
Lithium Battery Capacity	16AH 11.1V	20AH 11.1V	26AH 11.1V	30AH 11.1V
Sensor Area	15m			
Illumination(standby)	30%			
Delay Time	1minute			
Working Mode	light control / time control / microwave control / time+microwave control			
Charge Time	6-8 hours direct sunshine			
Discharge time	60h			
Working Time	3-5 consecutive rainy days			
Material of Body	aluminum alloy			
Lifespan	50,000hours			
Mono PV Module Power	40W	40W	50W	70W
Luminous Flux	3000-3200lm	4500-4800lm	6000-6400lm	7500-8000lm
Optical Distribution	wide beam lens			
Visual Angle	120×80			
Color Temperature	3500K-6500K			
CRI	80Ra			
Light Control Voltage	5V			
Working time	Bright Mode	14h		
	Dim Mode(30%)	60h		
Charge/Discharge	0℃-60℃ / -20℃-60℃			
Storage Temperature	-20℃-45℃			
Height Recommended	4-5m	5-6m	6-7m	7-8m
Installation Distance	12-14m	14-16m	16-19m	19-23m
Light Pole	60-76mm			
Product Size	600*340*175mm	600*340*175mm	710*340*175mm	980*340*175 mm
Carton Size	640*385*235mm	640*385*235mm	750*385*235mm	1025*385*235mm
Net Weight	8kg	10kg	15kg	16kg
Gross Weight	9.5kg	11.5kg	16.5kg	18kg

Technical Parameters

Model No.	ABT-GMN-60	ABT-GMN-80	ABT-GMN-100	ABT-GMN-120
LED Light	60W	80W	100W	120W
Lithium Battery Capacity	32AH 11.1V	36AH 11.1V	40AH 11.1V	50AH 11.1V
Sensor Area	15m			
Illumination(standby)	30%			
Delay Time	1minute			
Working Mode	light control / time control / microwave control / time+microwave control			
Charge Time	6-8 hours direct sunshine			
Discharge time	60h			
Working Time	3-5 consecutive rainy days			
Material of Body	aluminum alloy			
Lifespan	50,000hours			
Mono PV Module Power	70W	90W	120W	120W
Luminous Flux	9000-9600lm	12000-12800lm	15000-16000lm	18000-19200lm
Optical Distribution	wide beam lens			
Visual Angle	120×80			
Color Temperature	3500K-6500K			
CRI	80Ra			
Light Control Voltage	5V			
Working time	Bright Mode	14h		
	Dim Mode(30%)	60h		
Charge/Discharge	0℃-60℃ / -20℃-60℃			
Storage Temperature	-20℃-45℃			
Height Recommended	7-8m	8-9m	8-9m	9-10m
Installation Distance	23-27m	27-30m	30-33m	30-35m
Light Pole	60-76mm			
Product Size	980*340*175 mm	1080*340*175 mm	1310*410*55 mm	1310*410*55 mm
Carton Size	1025*385*235mm	1125*385*175mm	1365*465*115mm	1365*465*115mm
Net Weight	19kg	22kg	23kg	24kg
Gross Weight	21kg	24kg	25kg	26kg

Applications

Street, rural road, garden, square, countryside, slow lane, port, farm, school, factory, scenic area, supermarket, coastal Area, security and entrance Lighting, construction sites, rural & remote area, mining & industrial sites.

