



A VOTRE SERVICE DEPUIS 1995

AⁱHENA

SOLAR GARDEN LIGHT





ATHENA

SOLAR GARDEN LIGHT

Our backyards and gardens are places of relaxation and close to our hearts, and with the same passion, we present Athena as the most advanced solar garden light for your nature-friendly living. Athena solar garden light efficiently illuminates your recreational living areas, gardens, and pathways with 360-degree beam, glare-free lighting in solar energy, and stand-alone off-grid functioning. Athena is aesthetically designed for comfortable living but elegant styling suitable for home and hospitality applications with zero operational costs.

Designed with a simplified cosmetic appearance, Athena is a great combination with the latest technology of lithium battery, solar panel, and smart control system. High-efficiency 42W solar panel and MPPT solar charge controllers are adopted to ensure sufficient electrical power could be generated every day to ensure the luminaire work stably without blackout all year round.

With the built-in lighting programs, the lighting power and working time could be easily adjusted as required via the remote control. The light can also work in motion detecting mode which will help to save more energy. Athena is a suitable solar pedestrian light to work perfectly no matter in gulf countries with 5.5 hours of valid sunshine or in north Europe with 2.5 hours of valid sunshine.

Athena solar garden light is highly customizable via the remote control in terms of color temperatures, lighting power and working time to match the garden atmosphere. Auroras's decade of experience in solar lighting technologies makes athena as the perfect choice for home users and project customers, contributing to the green energy and reduce carbon footprints.

True Quality Deserves Trust



Remote
Setting



3000 Cycles
LifePO4 Battery



LED Power
Adjustable



Dual CCT
Changeable



Motion Sensor
Detection



Dusk to Dawn
Auto ON/OFF



IP65
Waterproof

Key Feature

ALUMINIUM FIXTURE

High-end surface treatment on aluminium body, no possibility to get about rust or oxidation even after long-term use, Always maintain the original color as brand new appearance.

MILKY DIFFUSER

Up to 93% high light transmittance diffuser enable the light output with more uniform and soft performance without glare and more elegant.

ULTRA LUMINOUS

180lm/Watts high luminous efficiency, Color temperature is changeable between 3000K and 6000K (or 4000K), brightness is adjustable between 20%~100% freely as required.

DRAINAGE HOLES

With professional design of the structure, water will leak out from these drainage holes even if rainwater enters the interior of the lamp body, it will not affect the light performance at all.

MONOCRYSTALLION PV

Efficiency 21.5% mono solar panel is equipped to generate electricity power continuously and keep the system working stably.

LITHIUM BATTERY PACK

Up to 3000 cycles D.O.D 70% lithium battery is built-in. Ensuring system running up to 8 years without any maintenance. Battery capacity : 154WH composed by brand new 32700 cell.

2.4G REMOTE

2.4G remote control has a longer control distance and 360 degree signal transmission. Its functions contain to set the light power, select the color temperature and the working hours.

PROGRAMMABLE

The lighting time could be programmed as 6 hours 8 hours and 12 hours, also CCT is switchable between warm white and cool white. All operations can be done via a 2.4G remote control.

TRANSPARENT COVER

Strong and transparent polycarbonate cover protects the milky optics from any damage and blocks ways insects entering, keep inside of the light always neat and easy to clean

MPPT CHARGER+SENSOR

Microwave sensor is built inside, motion detection mode is available by remote control, More energy could be saved. MPPT charge controller are adopted ,30% power will be generated than using PWM controller.

ANTI-THEFT SCREW

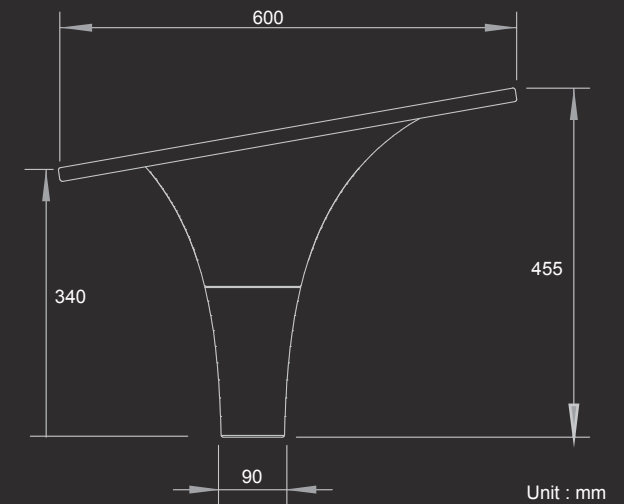
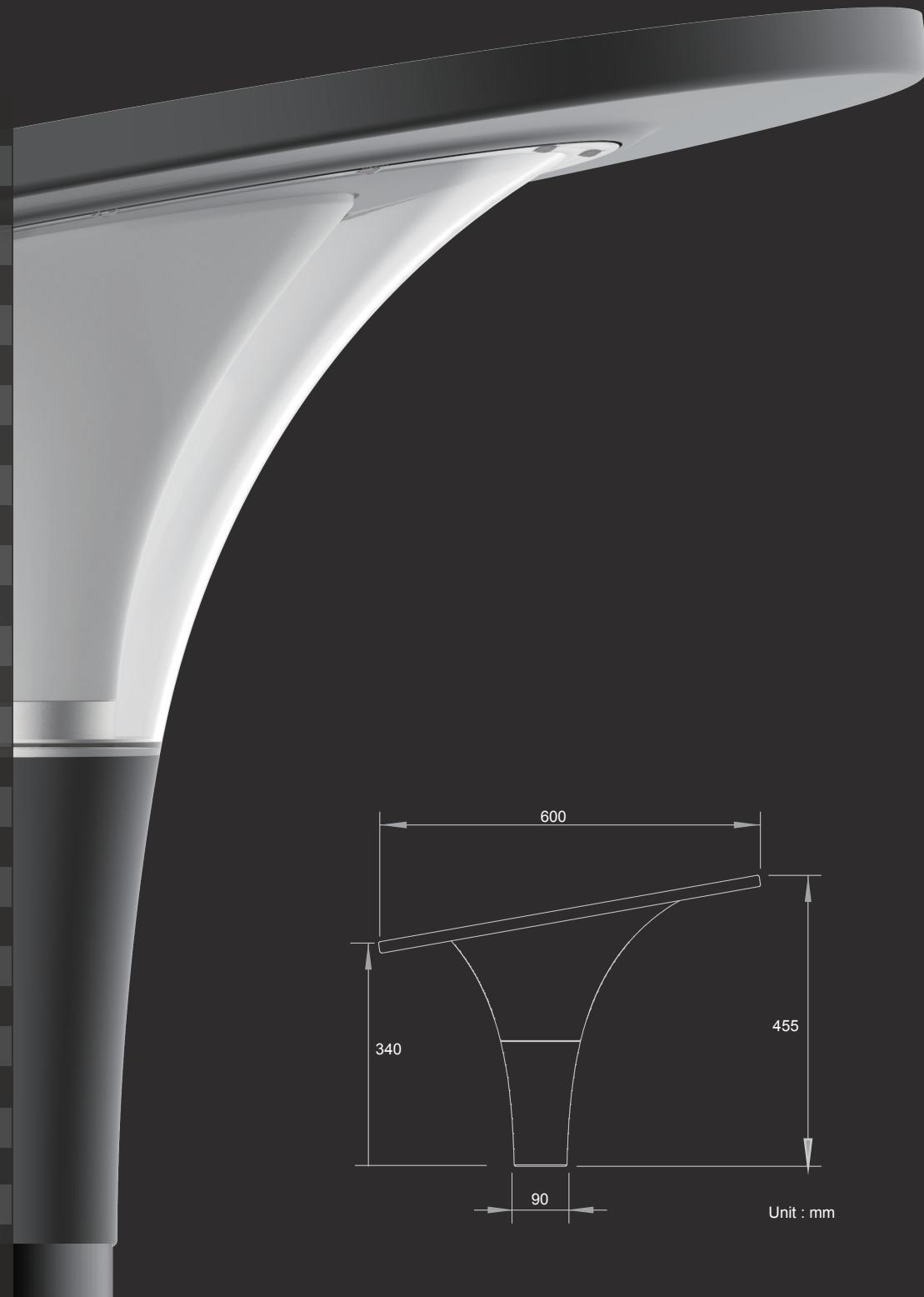
Special customized stainless steel 304 anti-theft screws are used, which are easy to install, stronger, and will not rust.

76MM DIAMETER

Suitable for pole diameter 60~76mm. Easy to fix to most sizes of poles by 2pcs of M8 screws.

Specification

Item number	ATHENA AI-GL600R
Luminous flux	2,800lm max
Peak LED power	18W
CRI	>80
LED type	SMD2835 164pcs
CCT range	Dual color 3000K + 4000K / 3000K + 6000K
Beam angle	150 degrees
Battery capacity	154WH 12.8V
Battery type	Brand new LifePO4 32700 6000mA 3.2V
Battery lifetime	D.O.D 50% 4000 cycles
Charge & discharge time	4 hours & 24 hours
Solar panel	42W 18V MONO crystallinesilicion
Solar Cell Efficiency (%)	>21.5%
Battery autonomy	2-days backup, 3~5 days in motion detection mode
Control method	Automatic dusk to dawn
Solar charge controller	MPPT controller with 2.4G remote
Motion sensor	Microwave sensor
Working temp.	-20°C ~ 70°C
Fixture size	D580*435mm
Fixture materials	Aluminium die casting + Polycarbonate
Fixture color	Black RAL9011 / customized
Pole diameter to fit	76mm
Package size	60*60*26cm
N.W/Light	9.60kg
IP Rate	IP65
Warranty	3 years
Certificates	CB CE ROHS IP65



Performance

CHANGE COLOR

The color is switchable between cool white 6000K (or daylight 4000k) and warm white 3000K. Easy to set by remote as required. Winter with warm white and Summer time with cool white. Creating a comfortable atmosphere freely.

CHANGE POWER

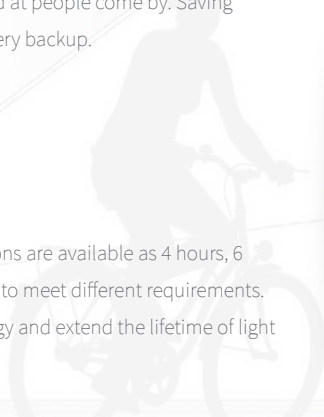
The power is changeable as 20%, 40%, 60%, 80%, and 100% to adjustable according to the local solar radiation to save energy, guaranteeing the lighting service is always there even in very challenging conditions.

CHANGE MODE

The default setting is continuous lighting with fixed brightness, also motion sensor function is available, The luminaire works with 30% power normally and works with 100% power when the motion sensor is triggered at people come by. Saving more power with longer battery backup.

CHANGE TIME

Different lighting time durations are available as 4 hours, 6 hours, and 12 hours optional to meet different requirements. This helps to save more energy and extend the lifetime of light as well as more days backup.





THE ONLY QUALITY Governments Trust

As the most classic model of solar led street light, HERMES is accredited by government customers in many countries.

In Oct 2021, The Chinese Consulate General donates auroras's solar lights to the Iraq government in Erbil. 270 complete sets of Hermes solar street lights 80W are installed on the main road of Erbil city to light up the nights.





A VOTRE SERVICE DEPUIS 1995

All in Two

SOLAR STREET LIGHTS

30~120Watt



INTEGRATED SOLAR STREET LIGHTS 30~120Watt

- * **INTEGRATED DESIGN**
- * **BIG BATTERY CAPACITY**
- * **CONTINUES HIGH POWER**
- * **LONG LIFETIME**

All in Two solar street light series are dedicated to provide the real and continuous high brightness output for high-end project. Difference from all in one solar street light, solar panel of all in two is separated from solar light head and two parts are connected to each other directly by universal MC4 connectors directly. Big LifePO4 battery pack with 2-3 days autonomy and MPPT charge controller are built inside of light fixture. Three models are available as HELIOS for 20W 30W and 50W, HERMES is for 60W and 80W, THOR is for 100W and 120W. All the specification can be customized according to client's requests.



Profile + Feature

As the pioneer of all in two solar street lights on the market. Auroras has got a high reputation from clients over last years on quality and service. These 3 models are the popular models for commercial lighting because of its lighting performance and quality.

All in two solar led street light is an innovative structure of solar led street light developed since 2016. It adopts the concept of all in one solar led street lights in order to reduce the complication of installation but also maintain the stability and flexibility of regular solar-led street lights whose components are individual.

Additionally, an advanced wireless intelligent control system is available which makes the solar street lights could be monitored and settable online freely. The state of the solar light system could be recorded in the system and all states including the voltage of the battery, solar panel, and led light power is visible at the online control platform. Customers can modify the lighting power and its lighting programs easily as required. An automatic problem alarm is also available which reduces of step and cost of maintenance work a lot.



LED Source

It adopts ultra high brightness of Philips lumileds SMD5050 as light source. Each led chip can be driven to 5W max. With 64pcs of 5050 leds driven by low current, it achieve to more than 150lm per watt. Meanwell it output less heat which will extend the lifetime of LED chip greatly.

Lithium Battery Pack

Supper long lifetime LifePO4 battery are adopted for all model of solar street light. Produced with high requirements of management and production by ISO9001 certified factory, lifePO4 battery is able to provide continues and stable power to system for many years without maintainence.

Charge Controller

As the CPU of solar led light, high efficiency MPPT solar charge controller are adopted for all lights, it allows 12V/24V 10A , 15A ,20A depending on the power of light. With high quality and high efficiency solar charge controller, it can guarantee sufficient power can be generated with limited solar radiation condition. Lighting program can be modified with remote control easily as customers' demand.

MC4 Connection

Solar light head is to be connected to solar panel directly with MC4 connectors. it make the installation simple and durable. Seperated solar panel can be freely adjusted as needed. Customer can select a suitable power of solar panel depending on their local solar radiation at will.

Design Aesthetics

It adopted streamlined design concept with better wind resistant performance and appearance. Designed specially for premium quality projects requests.

Green Energy

100% pure energy from sun. No bill for electricity anymore. No pollution. Endless power from nature.

High Luminous Output

Adopted 64pcs of led chips philips SMD5050 as light source ,driven by less rated input current, It reaches high lumens luminous output up to 160lm/watt.

Programmable

Smart MPPT solar controller built-in, Even after the products are installed, the lighting scheme can be reconfigured or adjusted



Helios



Hermes



Thor

Long Lifetime

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

Quality lithium battery with long lifetime and mppt solar controller are built inside of light, Only need to be connected to solar panel via MC4 connectors and turn on

Compact Sturcture

The pioneer model on market based on "PLUG and PLAY" idea. Patents in utility & appearance registered

Patented Design

Long Autonomy

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

Specification

Item number	HELIOS-T3	HELIOS-T5	HERMES-T6	HERMES-T8	THOR-T10	THOR-T12
Luminous Flux	4,800lm	6,800lm	8,800lm	12,800lm	14,800lm	16,800lm
Rated Power	30W	50W	60W	80W	100W	120W
CRI	>79					
LED Type	Lumileds SMD3030 72pcs		Lumileds SMD5050 64pcs		Lumileds SMD5050 64pcs	
CCT Range	3000K / 4000K / 5000K / 6000K					
Beam Angle	Type I / II / III / III optics optional from LEDil					
Battery Capacity	307WH 12.8V	460WH 12.8V	538WH 12.8V	768WH 25.6V	921WH 25.6V	1075WH 25.6V
Battery Type	Brand new LifePO4 32700 6000mA 3.2V					
Battery Lifetime	D.O.D 50% 4000 cycles					
Charge Time	4 hours					
Discharge Time	>24 hours					
Advanced Control System	Hybrid type Solar + 220V backup / Zigbee 2G/4G Wireless Control					
Regular Solar Panel	80W 18V	100W 18V	120W 36V	160W 36V	200W 36V	260W 36V
Vertical Solar Module	140W 18V	280W 36V	340W 36V	400W 36V	540W 36V	600W 36V
Cable & Connector	2.5mm 0.6 meters with MC4 connectors					
Working Temp.	20 °C ~ 75 °C					
Control Method	Automatic dusk to dawn / Time Control / Manual ON-OFF					
Default Lighting modes	6 hours 100% + 6 hours 50%, 12 hours operation					
Fixture Size	678*276*102mm					
Fixture materials	Aluminium Die Casting					
Fixture color	Gray RAL7005					
N.W/Light	9.60kg	10.60kg	14.30kg	15.40kg	13.50kg	19.60kg
G.W/Light	10.30kg	11.20kg	15.30kg	16.40kg	20.40kg	21.80kg
IP Rate	IP67					
Warranty	3 years					
Certificates	CB CE ROHS IP67 LM79 LM80 FCC					

MPPT Charge Controller



Model number	MES60 (for T3 &T5)	DM60 (for T6)	DM120 (for T8 &T10)	DM160 (for T12)
System voltage	12V	12V	24V	24V
Output current range	50~3000mA	50~3000mA	50mA~4200mA	50mA~5600mA
Max. power of regular solar panel	150W/18V	150W/18V	260W/36W	400W/36W
Max. power of vertical solar module	400W/18V	400W/18V	600W/18V	800W/18V
MPPT tracking efficiency	98%			
Load output voltage	<60V	60W	120W	160W
Max load power	60W	14.6V	29.2V	29.2V
Overcharge voltage	14.6V	13.5V	27V	27V
Overcharge recovery voltage	13.5V	11.0V	22.0V	22.0V
Over-discharge voltage	11.0V	12.4V	24.8V	24.8V
Over-discharge recovery voltage	12.4V			
Light control voltage	7V			
Operating temperature	35℃ ~ +65℃	260g	400g	510g
Net weight	380g	80*82*22.6mm	114*88.3*24.5mm	142*88.3*24.5mm
Dimension(mm)	80*82*22.6mm			
IP rate	IP68			
Warranty	3 Years			

Quality LifePO4 Lithium Battery

Main Features

- Lithium Iron Phosphate (LiFePO4) Battery
- Safest lithium chemistry with high energy density
- Built-in automatic protections
- Efficient & long-lasting up to 4000+ cycles DOD 50%
- >2000 cycles @0.2C, Charge/Discharge at 100% DOD Internal cell balancing
- Wide temperature range: -20 °C ~ 70 °C
- Maintenance free after installation
- Cost effective










Battery Spec	12V-24AH	12V-36AH	12V-42AH	24V-36AH	24V-42AH	12V-24AH
Battery cell type	LifePO4 6000mA 3.2V 32700					
Nominal Capacity	12.8V 24AH (307WH)	12.8V 36AH (460WH)	12.8V 42AH (768WH)	25.6V 30AH (768WH)	25.6V 36AH (921WH)	25.6V 42AH (1075WH)
Quantity per pack	16 pieces	24 pieces	28 pieces	40 pieces	48 pieces	56 pieces
Array Mode	4P4S	6P4S	7P4S	5P8S	6P8S	7P8S
Dimension (L*W*H)	140*240*75mm	210*240*75mm	210*240*75mm	210*240*75mm	210*240*75mm	210*240*75mm
Charge mode	C.C + C.V					
Charge Cut-off voltage	14.6±0.05V	14.6±0.05V	29.2±0.05V	29.2±0.05V	29.2±0.05V	29.2±0.05V
Discharge Cut-off Voltage	11±0.05V	11±0.05V	22±0.05V	22±0.05V	22±0.05V	22±0.05V
Storage Temperature	5 °C ~ 35 °C					
Operating Temperature	-20 °C ~ 65 °C					
Lifetime (D.OD. 50%)	4,000 cycles D.O.D 50%					
Warranty	3 Years					

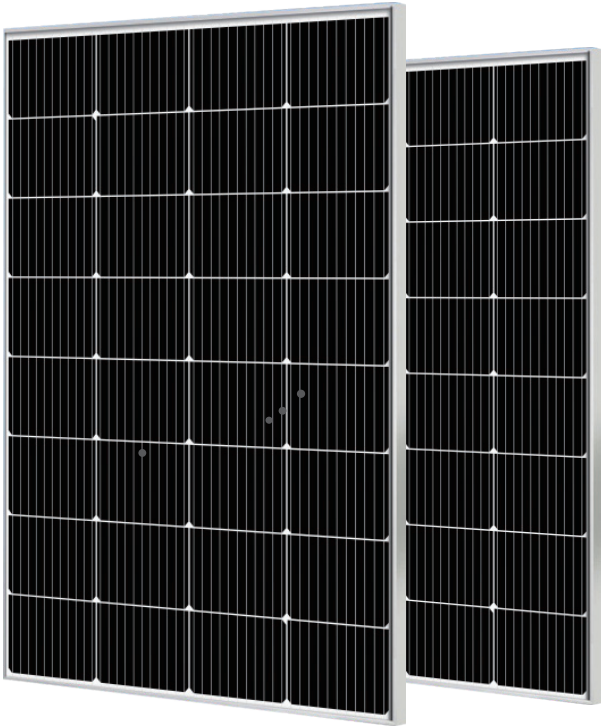
Monocrystalline Solar Panel

Certifications

- IEC61215, IEC61730 •
- ISO9001:2015 Quality Management Systems •
- ISO45001 : Enbvironmental Management Systems •
- ISO45001:2018 Occupational Health and Safety Management System •

STC :  Light intensity 1000W/ m²  Battery temperature : 25 C  Asmosphere quality = 15

NOCT :  Light intensity 800W/ m²  Battery temperature : 20 C  Asmosphere quality = 15  Wind velocity 1m/s



Model number	MSD-080W	MSD-100W	MSD-120W	MSD-160W	MSD-240W	MSD-300W
Peak power / Pm(W)	18.0V	18.0V	18.0V	36.0V	36.0V	36.0V
Max. power voltage / Vmp(V)	6.67A	6.67A	6.67A	6.67A	6.67A	8.34A
Solar cells efficiency	22.3%	22.3%	22.3%	22.3%	22.3%	22.3%
Dimensions(L*W*T)	550*760*30mm	680*760*30mm	800*760*30mm	1040*760*30mm	1530*760*30mm	1290*1134*35mm
Grade of solar cells	A grade					
Cable & connector	0.9M solar cable + MC4 connectors					
Operating temperature range	-40 ℃ - +85 ℃					
Power output warranty:	IP65					
IP rate	10 years > 90%, 25 years > 80%					
Product Certifications / Standards	CE, ROHS ISO9001:2008, RoHSCE, IEC61215					



Zigbee System



Gateway (4G Sim Card inside)



Zigbee Module + Solar Controller

The zigbee control system is an integrated smart control system, the light control module is composed of two parts as solar controller and the signal module, These two parts are connected via the RS485 interface as the light control part. it communicates with the gateway with the Zigbee signal.

Comparison of Zigbee & 2G

Zigbee:

The bottom layer uses free wireless frequency communication, and the bottom layer data is transmitted to the Internet through a centralized gateway, so that one gateway can manage multiple street lights.

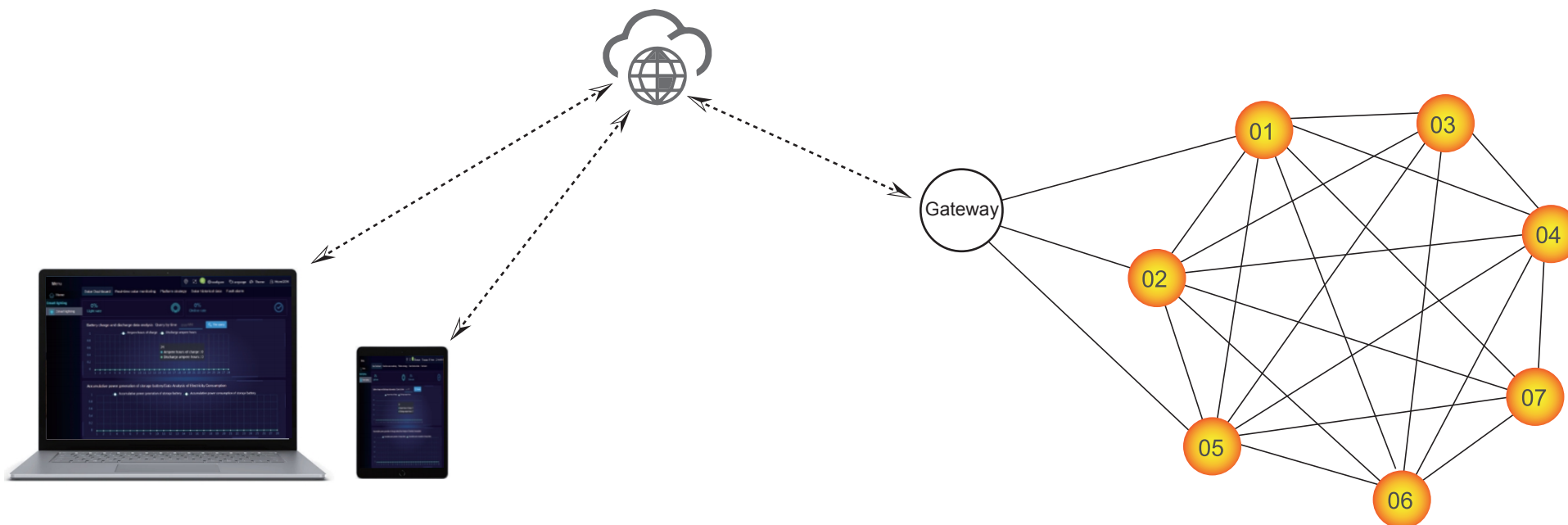
Advantages: when mass street lamps are used, the communication fee is relatively low.

2G/4G/GPRS/NB-IOT

The direct connection scheme is adopted, and there is no centralized manager, and the signal transmission is carried out through the base station of the mobile operator.

Advantages: The signal reliability and safety are relatively high, the construction is relatively simple, and there is no need to install a concentrator.

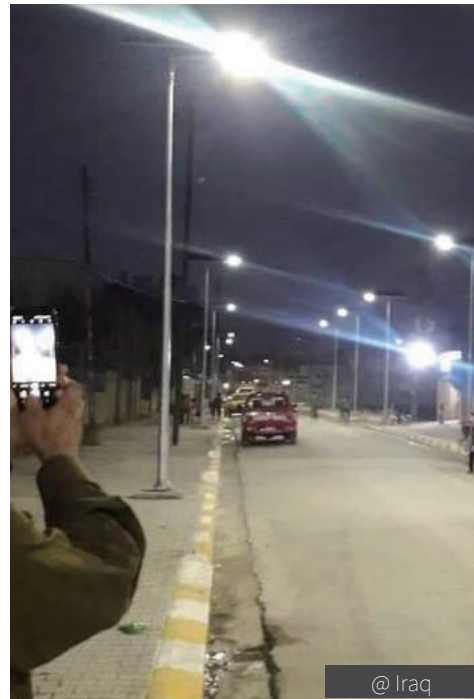
Disadvantages: The communication module and communication fees are relatively high.



More information, please refer to the Zigbee system datasheet of



@ Sri Lanka



@ Iraq



@ Syria



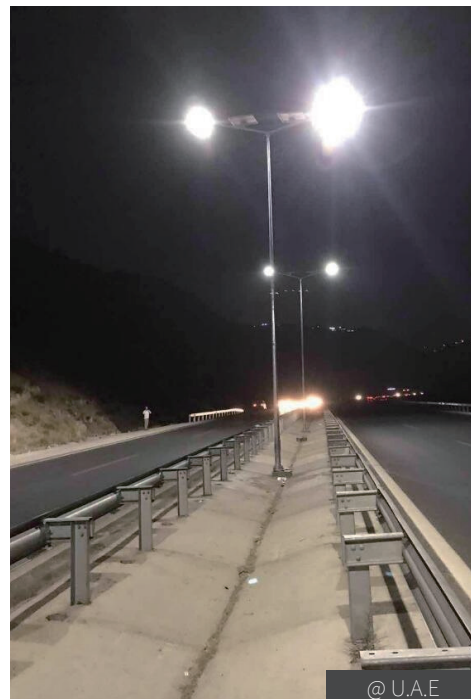
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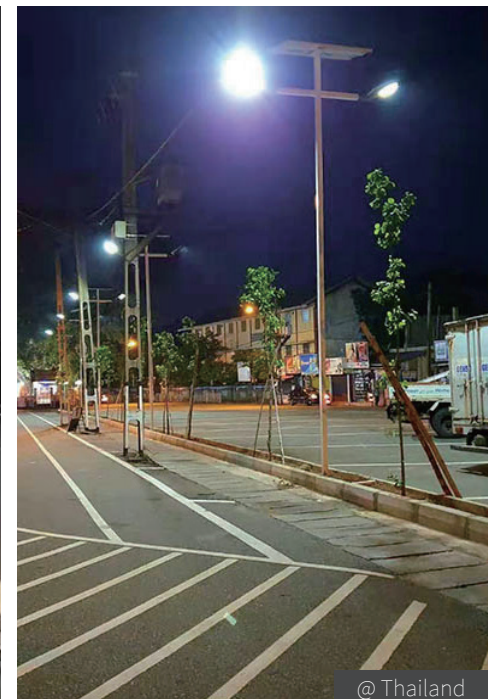
@ Philippines



@ Colombia



@ U.A.E



@ Thailand



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TITAN

ALL IN ONE SOLAR
STREET LIGHT



TITAN_{AIO}

SOLAR STREET LIGHTS

TITAN is the latest design series of all In one solar street Light adopts the classical concept of 'All In One' and module structure, which offers extremely effective illumination for a wide range of applications. It's based upon 'reliability' and 'easier to installation' as all components are integrated into one housing. TITAN is adopting quality aluminum die casting housing instead of aluminum alloy which has better performance in wind-resistant and reaches to high IK level with aesthetic appearance. suitable to be installed in parks, pathways etc.

TITAN solar-led street lights adopt quality components with the most reliable and high performance. Using more quantity of SMD3030 in order to offer an ultra-high luminous output which is up to 150lm/watt. And using MPPT solar charge controller instead of PWM, guarantee enough power can generate daily with high efficiency by 30% more than using PWM. More suitable for the areas where are full of hot sunshine all the year-round. TITIAN is adopting a big battery to store the power and there will be more days of backup. ensuring there is lighting service even in very challenging conditions.

TITAN series is also intelligent by combining a programmable MPPT controller, recyclable lithium battery system, asymmetric illumination LED source, and sensitive 'Smart Eye' motion sensor, to realize the efficient cost, easier maintenance, saving energy.



Advantages

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



Performance

- IP65, IK08
- Shelf life 25 years
- Presence sensor
- Lithium battery
- Aesthetic appearance

Main Feature

PIR Motion Sensor

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

MPPT 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.

Monocrystalline PV

- » Integrated high efficiency MONO Crystalline module
- » 7 % higher power output compared to industry average poly-crystalline module
- » Higher performance at longer wavelengths of light (1100-1200 nm)
- » Superior temperature co-efficient and performance at NOCT, PTC ratings
- » Excellent performance at low light irradiation

Built to Last

TITIAN are designed to withstand the harshest and most extreme environments has to offer, whatever the environment is, truelite rugged construction is up for the challenge. Its internal components offer IP65 weather protection and its external components are built with marine grade aluminum and stainless-steel fixture.

LED Optics

120° *70° degrees beam angles light utilization more than 70% for street applications light transmittance 92%, antti-UV, IP65 dust-proof & waterproof

Lithium Battery Pack

Battery bank will be providing as per customer requirements and project conditions. Lithium ion battery long life up to 1800 circles (5 to 8 years) withstand high temperature.

Unique Properties

- All In one solar street light can easy to install
- » Switch & play without cabling -fast installation
- » Lithium ion battery technology offers up to 4 times more discharge capacity over lead acid type and 3 times more cycle life.
- » Automated LED output for greater battery autonomy
- » Customer can replace component (Battery)

Lighting the Way

Built specifically to illuminate a wide range of applications. It is the worlds most versatile and compact LED solar lighting system, its clever design and slim line construction incorporates the latest solar power and led technology providing many years of consistency performance and operational reliability

Main Specification

Item number	Titan T400	Titan T600	Titan T800
Peak Luminous Flux	4,800lm	6,800lm	8,800lm
Rated Power	30W	45W	60W
CRI	>79		
LED Type	Lumileds SMD3030 120pcs	Lumileds SMD3030 180pcs	Lumileds SMD3030 240pcs
CCT Range	3000K / 4000K / 5000K / 6000K		
Beam Angle	Bat wing pattern with polarized light		
Battery Capacity	230WH 12.8V	460WH 12.8V	691WH 12.8V
Battery Type	Brand new LifePO4 32700 6000mA 3.2V		
Battery Lifetime	D.O.D 50% 4000 cycles		
Charge & Discharge Time	4 hours & >24 hours		
Solar Panel	56W 18V		
Working Temp.	20 °C ~ 75 °C	80W 36V	120W 36V
Control Method	Automatic dusk to dawn / Time Control / Manual ON-OFF		
Solar Charge Controller	MPPT with motion sensor by SRNE		
Default Lighting modes	6 hours 100% + 6 hours 50%, 12 hours operation		
Motion Sensor	Microwave / PIR optional		
Fixture Size	790*368*145mm	1010*430*145mm	1200*505*160mm
Fixture materials	Aluminium Die Casting		
Fixture color	Gray RAL7005		
Mounting Diameter	60mm / 80mm		
N.W/Light	9.60kg	14.30kg	15.40kg
G.W/Light	10.30kg	15.30kg	16.40kg
IP Rate	IP65		
Warranty	3 years		
Certificates	CB CE ROHS IP67 LM79 LM80 FCC		

MPPT Charge Controller



Model number	MES60
System voltage	12V
Output current range	70~3000mA
Max. power of regular solar panel	130W/18V
Max. power of vertical solar module	300W/36V
MPPT tracking efficiency	98%
Load output voltage	<60V
Max load power	60W
Overcharge voltage	12.8V
Overcharge recovery voltage	12.0V
Over-discharge voltage	11.0V
Over-discharge recovery voltage	11.5V
Light control voltage	7V
Net weight	280g
Dimension(mm)	580*82*22.60mm
IP rate	IP68
Warranty	3 Years

Quality LifePO4 Lithium Battery



Main Features

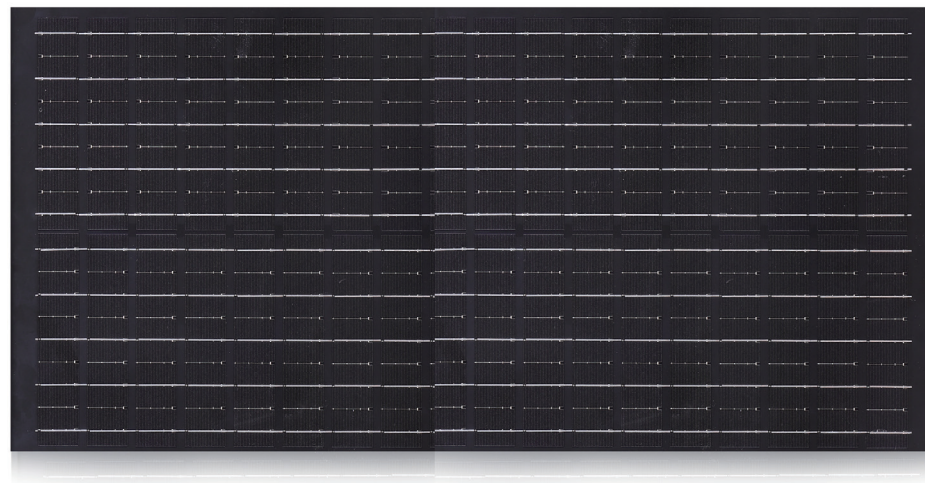
- Lithium Iron Phosphate (LiFePO4) Battery
- Safest lithium chemistry with high energy density
 - Built-in automatic protections
- Efficient & long-lasting up to 4000+ cycles DOD 50%
 - Wide temperature range: -20 °C ~ 70 °C
 - Maintenance free after installation
 - Cost effective




Battery Spec	12.8V-18AH	12.8V-36AH	12.8V-54AH
Battery cell type	LifePO4 6000mA 3.2V 32700		
Nominal Capacity	12.8V 18AH (230WH)	12.8V 36AH (480WH)	12.8V 54AH (691WH)
Quantity per pack	12 pieces	24 pieces	36 pieces
Array Mode	3P4S	7P4S	5P8S
Dimension (L*W*H)	130*220*36mm	290*210*36mm	290*310*36mm
Charge mode	C.C + C.V		
Charge Cut-off voltage	14.6±0.05V		
Discharge Cut-off Voltage	11±0.05V		
Storage Temperature	5 °C ~ 35 °C		
Operating Temperature	-20 °C ~ 65 °C		
Lifetime (D.OD. 50%)	4,000 cycles D.O.D 50%		
Warranty	3 Years		





Monocrystalline Solar Panel

Certifications

- IEC61215, IEC61730 •
- ISO9001:2015 Quality Management Systems •
- ISO45001 : Enbvironmental Management Systems •
- ISO45001:2018 Occupational Health and Safety Management System •



STC :  Light intensity 1000W/ m²  Battery temperature : 25 °C  Atmosphere quality = 15

NOCT :  Light intensity 800W/ m²  Battery temperature : 20 °C  Atmosphere quality = 15  Wind velocity 1m/s

Model number	MSD-56W	MSD-80W	MSD-120W
Peak power / Pm(W)	18.0V	18.0V	18.0V
Max. power voltage / Vmp(V)	3.12A	4.45A	6.67A
Solar cells efficiency	>21.7%	22.3%	22.3%
Dimensions(L*W*T)	762×340*4mm	970×400*4mm	1160×475*4mm
Grade of solar cells	A grade		
Operating temperature range	-40 °C - +85 °C		
Power output warranty:	10 years > 90%, 25 years > 80%		
Warranty	5 years		
IP rate	IP65		
Product Certifications / Standards	CE, ROHS ISO9001:2008, RoHSCE, IEC61215		





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PRIME

INTEGRATED AIO SOLAR STREET LIGHT



BSCI

Business Social Compliance Initiative

MPPT Charge
Controller



PRIME

INTEGRATED SOLAR STREET LIGHTS

PRIME all in one solar led street lights are brand new designed based on traditional AIO models, the fabulous change is the advantage that its battery box can be easily opened to replace or repair the battery which saves the complication of maintenance.

PRIME is offered with 3 years warranty to clients with high quality composed of brand new lifePO4 battery pack and high-efficiency charging efficiency MPPT charge controller as well the ultra-high brightness of Lumileds SMD chips. The reliable quality of components ensures the stability of the system greatly even in very challenging conditions.



Advantages

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



Performance

- IP65, IK08
- Shelf life 25 years
- Presence sensor
- Lithium battery
- Aesthetic appearance

Main Feature



PIR Motion Sensor

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

MPPT Charge Controller

MPPT solar charge controller with PIR motion sensor is charging more than 30% power than regular PWM controller. Up to 98% high efficiency enable to make system fully charged everyday. IP68 waterproof and high-temp resistant.

Monocrystalline PV

- » Integrated high efficiency MONO Crystalline module
- » Higher performance at longer wavelengths of light (1100-1200 nm)
- » Superior temperature co-efficient and performance
- » Excellent performance at low light irradiation

Detachable Battery Pack

With a detachable solar battery pack, it is much easier to do the maintenance without unfixing the solar panel and led module. It just requires removing the screws of the battery box, saving more labor cost and easier.

Main Specification

Item number	AIO-50W	AIO-60W	AIO-80W	AIO-100W
Peak Luminous Flux	6,500lm	8,800lm	10,800lm	13,800lm
Peak LED Power	50W	60W	80W	100W
CRI	>79			
LED Type	Lumileds SMD3030 96pcs	Lumileds SMD3030 144pcs	Lumileds SMD3030 192pcs	Lumileds SMD3030 240pcs
LED Module Quantity	2 modules	3 modules	4 modules	5 modules
CCT Range	3000K / 4000K / 5000K / 6000K			
Beam Angle	Bat wing pattern with polarized light			
Battery Capacity	384WH 12.8V	460WH 12.8V	615WH 12.8V	768WH 25.6V
Battery Lifetime	D.O.D 50% 4000 cycles			
Charge & Discharge Time	4 hours & >24 hours			
Solar Panel	70W 18V	100W 18V	100W 18V	120W 36V
Working Temp.	20 °C ~ 75 °C			
Control Method	Automatic dusk to dawn			
Solar Charge Controller	MPPT with motion sensor by SRNE			
Default Lighting modes	12 hours 40% + 100% when sensor is triggered			
Motion Sensor	Mrowave / PIR optional			
Fixture Size	872*387*68mm	1122*387*68mm	1522*387*68mm	1522*387*68mm
Fixture materials	Aluminium Die Casting			
Fixture color	Silver / Gray RAL7005			
Mounting Diameter	76mm			
N.W/Light	14.80kg	16.70kg	18.30kg	22.80kg
G.W/Light	16.20kg	18.30kg	19.60kg	21.70kg
IP Rate	IP65			
Warranty	3 years			
Certificates	CB CE ROHS IP67 LM79 LM80 FCC			

MPPT Charge Controller



Model number	MES60 (for 50W & 60W)	MES120 (for 80W & 100W & 120W)
System voltage	12V	12V/24V
Output current range	50~3000mA	50~4200mA
Max. power of regular solar panel	130W/18V	130W/18V 260W/36V
MPPT tracking efficiency	98%	
Load output voltage	<60V	
Max load power	60W max	120W max
Overcharge voltage	14.6V	14.6V 29.2V
Overcharge recovery voltage	13.5V	13.5V 27.0V
Over-discharge voltage	11.0V	11.0V 22.0V
Over-discharge recovery voltage	12.4V	12.4V 24.8V
Light control voltage	7V	
Working Temp.	35°C ~ +65°C	
Net weight	260g	400g
Dimension(mm)	80*82*22.6mm	114*88.3*24.5mm
IP rate	IP68	
Warranty	3 Years	

Quality LifePO4 Battery Pack

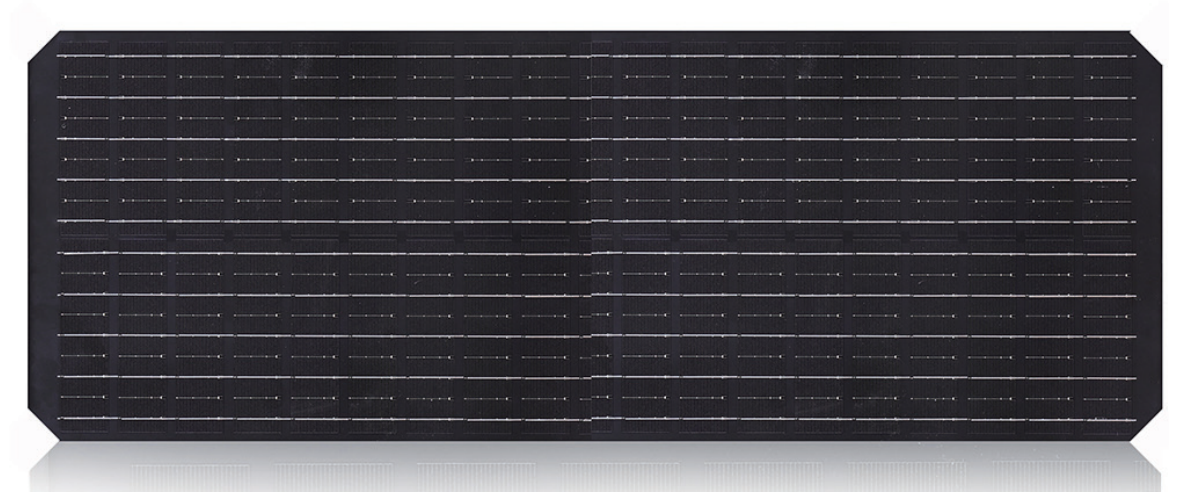


Main Features

- Lithium Iron Phosphate (LiFePO4) Battery
- Safest lithium chemistry with high energy density
 - Built-in automatic protections
- Efficient & long-lasting up to 4000+ cycles DOD 50%
 - Wide temperature range: -20 °C ~ 70 °C
 - Maintenance free after installation
 - Cost effective




Battery Spec	12830	12836	12848	12860
Battery cell type	LifePO4 6000mA 3.2V 32700			
Nominal Capacity	12.8V 30AH (384WH)	12.8V 36AH (480WH)	12.8V 48AH (615WH)	12.8V 60AH (768WH)
Quantity per pack	20 pieces	24 pieces	32 pieces	40 pieces
Array Mode	5P4S	6P4S	8P4S	10P4S
Dimension (L*W*H)	180*220*36mm	210*290*38mm	290*290*38mm	350*290*38mm
Charge mode	Constant Current + Constant Voltages			
Charge Cut-off voltage	14.6±0.05V			
Discharge Cut-off Voltage	11±0.05V			
Storage Temperature	5 °C ~ 35 °C			
Operating Temperature	-20 °C ~ 65 °C			
Lifetime (D.OD. 50%)	4,000 cycles D.O.D 50%			
Warranty	3 Years			





Monocrystalline Solar Panel



Certifications

- IEC61215, IEC61730 •
- ISO9001:2015 Quality Management Systems •
- ISO45001 : Enbvironmental Management Systems •
- ISO45001:2018 Occupational Health and Safety Management System •

STC :  Light intensity 1000W/㎡  Battery temperature : 25 °C  Asmosphere quality = 15

NOCT :  Light intensity 800W/㎡  Battery temperature : 20 °C  Asmosphere quality = 15  Wind velocity 1m/s

Model number	MSD-60W	MSD-80W	MSD-100W	MSD-120W
Peak power / Pm(W)	18.0V	18.0V	18.0V	18.0V
Max. power voltage / Vmp(V)	3.12A	4.45A	5.56A	6.67A
Solar cells efficiency	>21.7%	22.3%	22.3%	22.3%
Dimensions(L*W*T)	820*335mm	1070*335*4mm	1300*335*4mm	1470*335*4mm
Grade of solar cells	A grade			
Operating temperature range	-40 °C - +85 °C			
Power output warranty:	10 years > 90%, 25 years > 80%			
Warranty	5 years			
IP rate	IP65			
Product Certifications / Standards	CE, ROHS ISO9001:2008, RoHSCE, IEC61215			



Zigbee System



Gateway (4G Sim Card inside)



Zigbee Module + Solar Controller

The zigbee control system is an integrated smart control system, the light control module is composed of two parts as solar controller and the signal module, These two parts are connected via the RS485 interface as the light control part. it communicates with the gateway with the Zigbee signal.

Comparison of Zigbee & 2G

Zigbee:

The bottom layer uses free wireless frequency communication, and the bottom layer data is transmitted to the Internet through a centralized gateway, so that one gateway can manage multiple street lights.

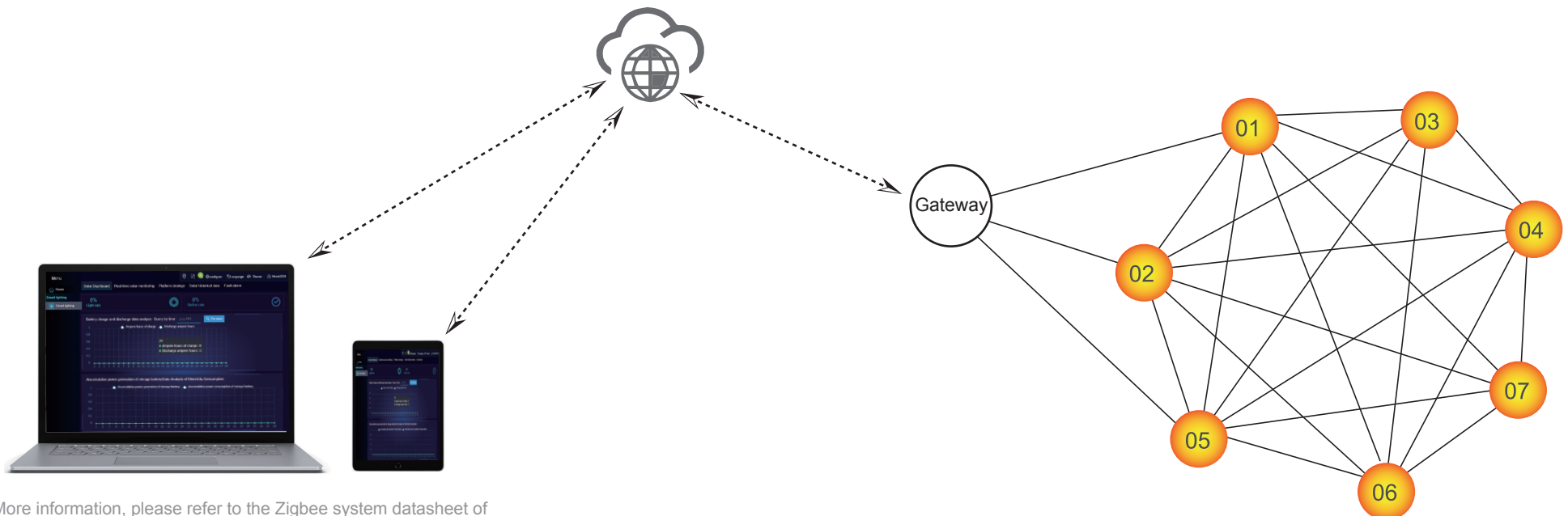
Advantages: when mass street lamps are used, the communication fee is relatively low.

2G/4G/GPRS/NB-IOT

The direct connection scheme is adopted, and there is no centralized manager, and the signal transmission is carried out through the base station of the mobile operator.

Advantages: The signal reliability and safety are relatively high, the construction is relatively simple, and there is no need to install a concentrator.

Disadvantages: The communication module and communication fees are relatively high.



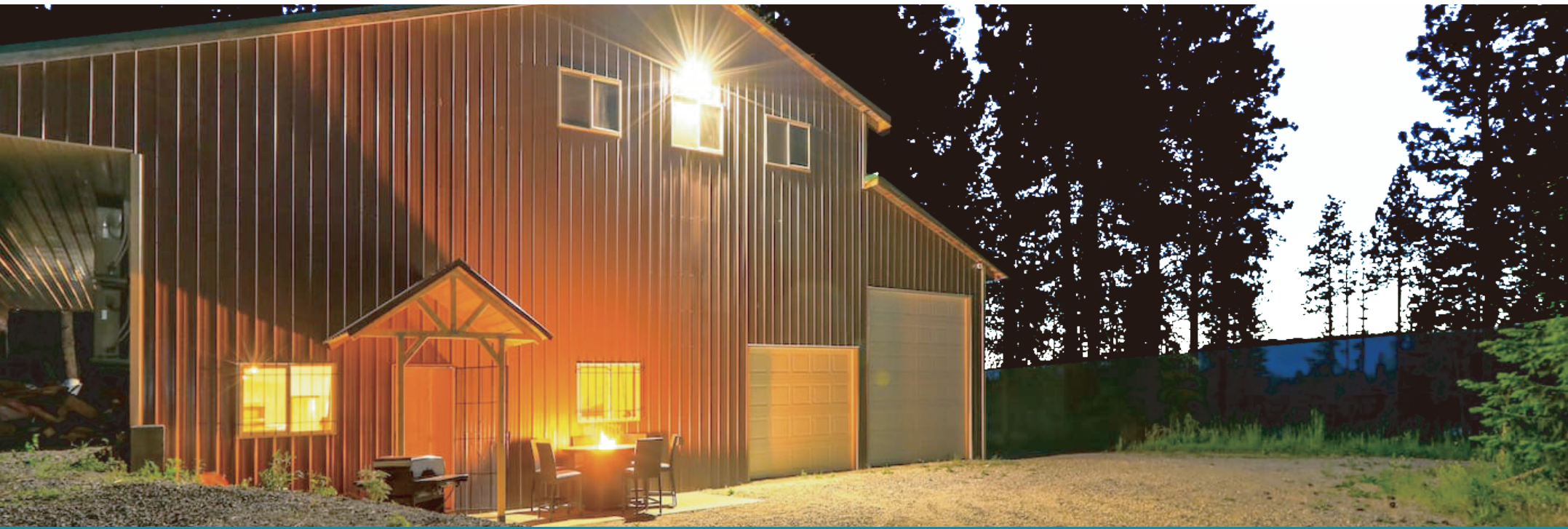
More information, please refer to the Zigbee system datasheet of



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VENUS

SOLAR FLOOD LIGHT
with motion sensor



VENUS

SOLAR FLOOD LIGHT with motion sensor

VENUS solar flood light was developed to satisfy the demand of premium customers who are caring about the quality, not limited the finishing of lights, but also the aesthetic appearance, battery stability, lighting efficiency, also convenient operation, and motion sensor detection.

VENUS solar-led floodlight adopts the latest technology of control system to balance between the solar panel, lithium battery. The brand new lithium battery is built inside to store the energy to extend the light lifetime up to 10 years. The quality solar panel is able to charge the battery well even during very challenging days no matter in cloudy days or wintertime, ensure to provide continuous lighting service without blackout.

Microwave motion sensor function could be turned ON/OFF freely via 2.4G remote control, The popular lighting programs are built in to allow users to select easily, what's more, the light also can work at day time when the battery is charging by the solar panel. One 2.4G remote control would control all the lights in the same group within 20 meters.

VENUS will be the perfect solar light to expand your business.



Main Features

Our research in 2020 has shown all customers positively believe there is a huge demand for a high-quality solar flood light in their local market. More than 90% of customers are unsatisfied with the quality of the existing solar flood lights on the market. The VENUS solar flood light is specially developed with its clear and high-quality positioning to satisfy all the expectations of premium customers. Different from models on market, VENUS solar flood light is making a lot of improvements:

- > Equipped with brand new lifepo4 battery instead of recycled ones from E-vehicles.
- > Equipped with 2.4G remote with 360° signal transmission, more sensitivity and longer distance
- > Equipped with microwave sensor , multi-lighting functions optional.
- > Equipped with the highest lighting efficiency LED chip up to 200lm/w max.
- > Equipped with a separated adapter cable for more easier connection.
- > Equipped with stainless steel ON/OFF button.
- > Improved installation method of solar panel, more user-friendly installation.



Key Components



2.4G remote control

Long distance with 360 degrees signal transmission, one remote can control multi solar lights at same time in same area.



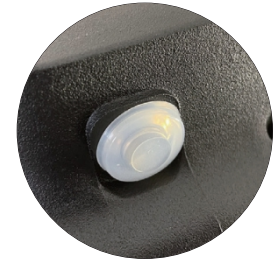
lifepo4 battery

Brand new, ultra long lifetime, big capacity of LifePO4 battery pack is built inside guarantees system to work stably



adapter cable

Individual 4.5 meters cable to connect solar panel and light fixture, It makes the installation more easier and flexible



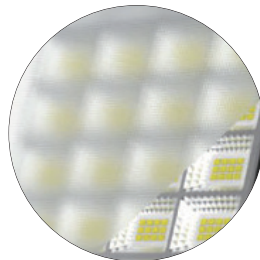
switch button

Stainless steel button with rubber cap covered is adopted for easy operation.



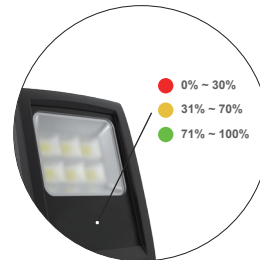
motion sensor

Built in motion sensor program. off+100% power for 1 minute, or 30%+100% power when sensor is triggered.



woven glass

Lighting performance is becoming more uniformed with 4.0mm woven glass, and makes lights look more elegant.



indicator light

Different color of indicator lights shows the rest battery capacity , Convenient for maintenance.



bracket cap

Bracket is stronger with cap ,easy to adjust the angle and more aesthetic.

Detailed Specification



Environmental Protection



Remote Setting



2000 Cycles LifePO4 Battery



Electricity Bills free



High luminous efficiency



30%+100%

Motion Sensor Detection



ON - OFF

Dusk to Dawn Auto ON/OFF



IP 65

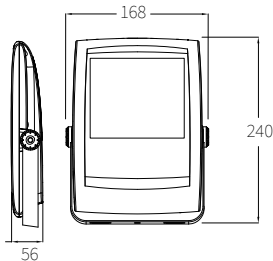
IP65 Waterproof

Model	V2-PRO	V4-PRO	V6-PRO	V8-PRO
Luminous flux (max)	880lm max	1,280lm max	2,480lm max	3,280lm max
Led power (max)	4.8W max	9.0W max	13.5W max	18.5W max
Fixture dimension	240*168*56mm	305*235*56mm	375*275*56mm	375*275*56mm
Solar panel	12W 10V	25W 10V	35W 10V	50W 10V (2pcs of 25w)
Lithium battery	6.4V 38.4WH	6.4V 76.8WH	6.4V 115WH	6.4V 154WH
Fixture color	White / Grey / Black			
Color tempature	3000K / 4000K / 6000K			
Housing material	Aluminium die casting			
Remote control	2.4G radio remote			
Charging time	4.5 hours			
Discharging time	>15 hours			
Working temp.	-15℃ ~ +70℃			
Connect cable	4.5 meters			
IP rate	IP65			
Certificates	CE ROHS, CB			
Packing Information				
Carton Size	52*40*38cm	54*40*49cm	64*28*42cm	64*30*42cm
Quantity / Carton	6 sets	4 sets	2 sets	2 sets
Net Weight	17.80kg	18.80kg	14.50kg	16.30kg
Gross Weight	19.20kg	20.30kg	15.60kg	17.80kg
Solar panel+light in one box	Yes	Yes	Yes	Yes

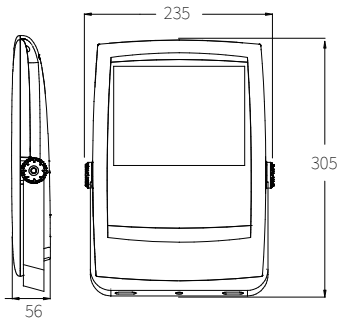
Dimension



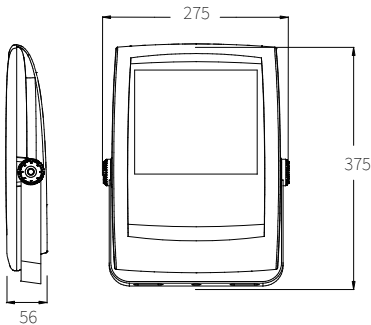
V2-PRO



V4-PRO



V6-PRO



Application

- * Temporary Tent Lighting
- * Pathway Lighting
- * Warehouse Lighting
- * Refugee Tent Lighting
- * Construction Site Lighting
- * Bus Station Lighting
- * Emergency Lighting
- * Garden Lighting
- * Hotel Lighting
- * Horse Stable Lighting



Lighting Area

Model	Luminous flux	Lighting area
V2-PRO	880lm	12 ~ 20 m²
V4-PRO	1680lm	20 ~ 35 m²
V6-PRO	2480lm	35~ 45 m²
V8-PRO	3280lm	45 ~ 60 m²





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SolarWrap

VERTICAL SOLAR STEET POLE



Intellectual Property

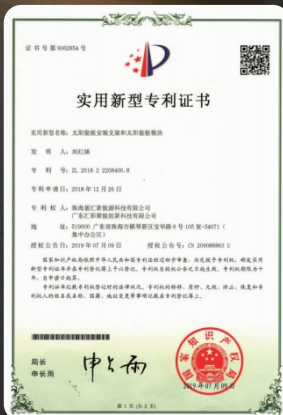
The designs of vertical solar modules are advanced concepts whose target is to meet the future potential demand of the market. These patents are registered successfully in the China patent database, and all the intellectual property rights are reserved by AURORAS China.

Until 2022, Auroras have noticed there are some company has copied our products. Auroras will pursue the relevant legal liabilities of the counterfeiters at the right time and compensate them for related losses. The infringing products they produce may be seized by law enforcement agencies during the production process, and also face the risk of being confiscated by the customs during the export process from China.

Therefore, in order to protect your legal rights and interests, please do not buy counterfeit products to avoid losses.



Patent NO.: ZL 2018 2 2208400.8



Patent NO.: ZL 2018 2 2208483.0



SolarWrap Introduction

SolarWrap Integrated Solar Pole Systems from Auroras's are our most advanced and innovative solar module for various pole-mounted PV applications. SolarWrap's patented design, manufactured to high-quality standards, can meet decorative and high-end applications, especially for the area and garden lighting without compromising aesthetics. SolarWrap is the outcome of our constant R&D in Solar Lighting, equipped with highly efficient solar modules in a hexagonal aluminum die-cast structure for maximum performance, strength, and durability in many challenging applications. The innovation can be integrated into any pole shape and dimensions, making the SolarWrap Integrated Solar Pole almost universal. The detachable and lightweight design helps in easy installation for a complete maintenance-free life.

The complete solar pole only includes two functional components including vertical solar modules and solar light head which can be connected to each other directly by MC4 connectors. The battery and solar controller are built inside of the light fixture. The powers of solar light heads are from 20W to 120W to meet most requirements of projects. The vertical solar-led street light pole is a premium and advanced product. It is designed especially for these projects concerning a lot on aesthetical appearance with high luminous flux, durable quality system, and long time use without any maintenance.

It could be widely used for outdoor monitors, traffic lights, signal centers etc. It is also an ideal solution to retrofit the traditional street lights whose lighting bulbs are metal-halide. It only needs to attach the SolarWrap vertical solar module to existing poles without setting new poles. This provides a brand new possibility to save energy by solar power for traditional street lights with minimum cost.



First Successful Case in the world

Philippines 2019 south asian games was a remembered as a very significant game. We are so proud that there were more than 240 complete set of dual heads solar led street lights installed long the road of the stadium park. There were more than 41 competitors who bided this philippines national project. Because of the unique design, SolarWrap vertical solar street light were selected as the major solar lighting products for the main road of the sport park.



Comparison



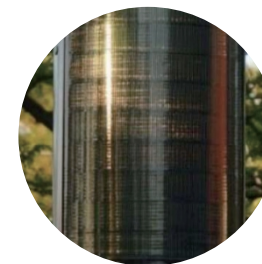
Silicon Solar Panel

Advantages:

- * Cost is very much lower than CIGS.
- * Lifetime is long up to 20 years
- * Practical efficiency is more than 19.5%
- * Strong structure support, aluminium profile

Disadvantages:

- * Heavy weight
- * Not so good look as CIGS



CIGS Solar Panel

Advantages:

- * Light weight
- * Shining finish with full glass cover.

Disadvantages:

- * Cost is very high
- * Lifetime is short, only 4 ~ 6 years
- * Practical efficiency is less than 13%
- * Efficiency drops fast by 30% with 4 months

Key Feature



Universal Application

SolarWrap can be used in any type of poles and designs without dismantling them makes the application. Poles can be sourced separately, the detachable design with adjustable spacing brackets helps the mounting easy in every pole.



360° Full Day Charging

6 slim solar panels are fixed tightly on a hexagon frame, so it ensures 50% of solar panel will face to sunshine at any time of the day.



Modular Installation

This solar cylinder module is based on modular design concept for easy installation and disassembly. It can be quickly and easily mounted on any suitable pole.



Strong Wind Resistance

The cylindrical design reduces the wind resistance area, and each module is directly fastened to the pole by 12 screws for better wind resistance. It can stand well against even 10 grade typhoon.



Never Snow Covering

Solar cylinder modular mounted in vertical, it is not easy to be covered by snow as regular solar panel. Ensure enough power can be generated even in very snowy climate. Never worry black out.



Easy to Clean

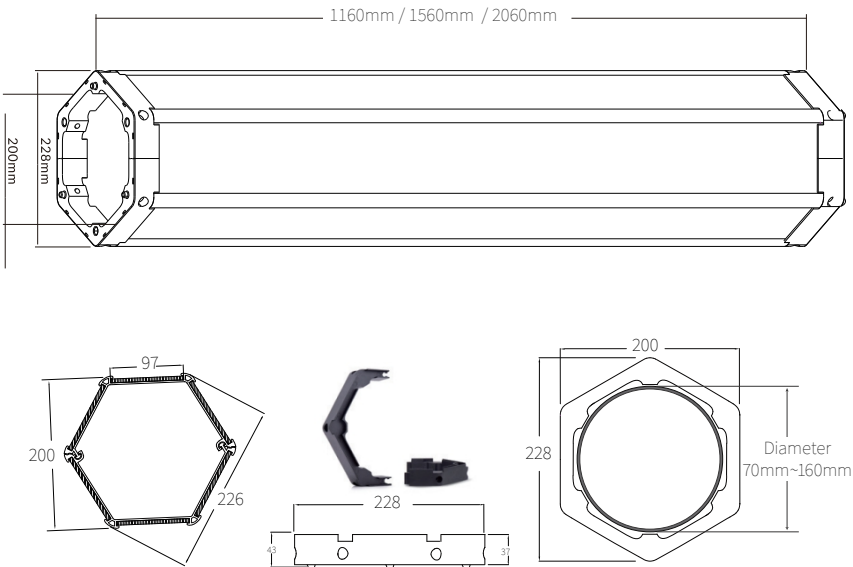
Less dust will fall on surface than regular solar panel. Worker can clean it easily standing on ground with a long handle brush. no need lift. higher work efficiency and less maintenance cost.



Design Aesthetics

The relatively large size of solar panels on the pole top has made the solar lighting not an option for the areas where the design aesthetics and decorative lighting applications are used. SolarWrap module systems is the real answer which is compact and fully integrates on the pole and available in custom colors to match the design of the pole.

Specification



Item number	Q100	Q140	Q200
Dimension	228*200*1160mm	228*200*1560mm	228*200*2060mm
Pmax	100W	140W	200W
Vmp & Imp	18V 5.56A / 36V 2.78A	36V 3.88A	36V 5.56A
Cell type	MONO made in Taiwan		
Solar cell efficiency	22.50%		
Cable & Connector	Universal MC4 with 0.6 meter 2.5mm²		
Structure material	aluminum alloy with powder coated >20 years lifetime		
Operating temp.	30 C ~ +70 C		
PV Lifetime	>20 years		
N.W / G.W	15.50kg / 17.80kg	20.70kg / 22.80kg	28.80kg / 29.80kg
Max pole diameter	155mm		
Warranty	5 years		

Design Aesthetics

It adopted streamlined design concept with better wind resistant performance and appearance. Designed specially for premium quality projects requests.

Green Energy

100% pure energy from sun. No bill for electricity anymore. No pollution. Endless power from nature.

High Luminous Output

Adopted 64pcs of led chips philips SMD5050 as light source, driven by less rated input current, It reaches high lumens luminous output up to 160lm/watt.

Programmable

Smart MPPT solar controller built-in, Even after the products are installed, the lighting scheme can be reconfigured or adjusted



Helios



Hermes



Thor

Long Lifetime

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

Quality lithium battery with long lifetime and mppt solar controller are built inside of light, Only need to be connected to solar panel via MC4 connectors and turn on

Compact Structure

The pioneer model on market based on "PLUG and PLAY" idea. Patents in utility & appearance registered

Patented Design

Long Autonomy

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

Specification

Item number	HELIOS-T3	HELIOS-T5	HERMES-T6	HERMES-T8	THOR-T10	THOR-T12
Luminous Flux	4,800lm	6,800lm	8,800lm	12,800lm	14,800lm	16,800lm
Rated Power	30W	50W	60W	80W	100W	120W
CRI	>79					
LED Type	Lumileds SMD3030 72pcs		Lumileds SMD5050 64pcs		Lumileds SMD5050 64pcs	
CCT Range	3000K / 4000K / 5000K / 6000K					
Beam Angle	Type I / II / III / III optics optional from LEDil					
Battery Capacity	307WH 12.8V	460WH 12.8V	538WH 12.8V	768WH 25.6V	921WH 25.6V	1075WH 25.6V
Battery Type	Brand new LifePO4 32700 6000mA 3.2V					
Battery Lifetime	D.O.D 50% 4000 cycles					
Charge Time	4 hours					
Discharge Time	>24 hours					
Advanced Control System	Hybrid type Solar + 220V backup / Zigbee 2G/4G Wireless Control					
Regular Solar Panel	80W 18V	100W 18V	120W 36V	160W 36V	200W 36V	260W 36V
Vertical Solar Module	140W 18V	280W 36V	340W 36V	400W 36V	540W 36V	600W 36V
Cable & Connector	2.5mm 0.6 meters with MC4 connectors					
Working Temp.	20 °C ~ 75 °C					
Control Method	Automatic dusk to dawn / Time Control / Manual ON-OFF					
Default Lighting modes	6 hours 100% + 6 hours 50%, 12 hours operation					
Fixture Size	678*276*102mm					
Fixture materials	Aluminium Die Casting					
Fixture color	Gray RAL7005					
N.W/Light	9.60kg	10.60kg	14.30kg	15.40kg	13.50kg	19.60kg
G.W/Light	10.30kg	11.20kg	15.30kg	16.40kg	20.40kg	21.80kg
IP Rate	IP67					
Warranty	3 years					
Certificates	CB CE ROHS IP67 LM79 LM80 FCC					

MPPT Charge Controller



Model number	MES60 (for T3 & T5)	DM60 (for T6)	DM120 (for T8 & T10)	DM160 (for T12)
System voltage	12V	12V	24V	24V
Output current range	50~3000mA	50~3000mA	50mA~4200mA	50mA~5600mA
Max. power of regular solar panel	150W/18V	150W/18V	260W/36W	400W/36W
Max. power of vertical solar module	400W/18V	400W/18V	600W/18V	800W/18V
MPPT tracking efficiency	98%			
Load output voltage	<60V	60W	120W	160W
Max load power	60W	14.6V	29.2V	29.2V
Overcharge voltage	14.6V	13.5V	27V	27V
Overcharge recovery voltage	13.5V	11.0V	22.0V	22.0V
Over-discharge voltage	11.0V	12.4V	24.8V	24.8V
Over-discharge recovery voltage	12.4V			
Light control voltage	7V			
Operating temperature	35℃ ~ +65℃	260g	400g	510g
Net weight	380g	80*82*22.6mm	114*88.3*24.5mm	142*88.3*24.5mm
Dimension(mm)	80*82*22.6mm			
IP rate	IP68			
Warranty	3 Years			

Quality LifePO4 Lithium Battery Pack

Main Features

- Lithium Iron Phosphate (LiFePO4) Battery
- Safest lithium chemistry with high energy density
- Built-in automatic protections
- Efficient & long-lasting up to 4000+ cycles DOD 50%
- >2000 cycles @0.2C, Charge/Discharge at 100% DOD Internal cell balancing
- Wide temperature range: -20 °C ~ 70 °C
- Maintenance free after installation
- Cost effective



Battery Spec	12V-24AH	12V-36AH	12V-42AH	24V-36AH	24V-42AH	12V-24AH
Battery cell type	LifePO4 6000mA 3.2V 32700					
Nominal Capacity	12.8V 24AH (307WH)	12.8V 36AH (460WH)	12.8V 42AH (768WH)	25.6V 30AH (768WH)	25.6V 36AH (921WH)	25.6V 42AH (1075WH)
Quantity per pack	16 pieces	24 pieces	28 pieces	40 pieces	48 pieces	56 pieces
Array Mode	4P4S	6P4S	7P4S	5P8S	6P8S	7P8S
Dimension (L*W*H)	140*240*75mm	210*240*75mm	210*240*75mm	210*240*75mm	210*240*75mm	210*240*75mm
Charge mode	C.C + C.V					
Charge Cut-off voltage	14.6±0.05V	14.6±0.05V	29.2±0.05V	29.2±0.05V	29.2±0.05V	29.2±0.05V
Discharge Cut-off Voltage	11±0.05V	11±0.05V	22±0.05V	22±0.05V	22±0.05V	22±0.05V
Storage Temperature	5 °C ~ 35 °C					
Operating Temperature	-20 °C ~ 65 °C					
Lifetime (D.O.D. 50%)	4,000 cycles D.O.D 50%					
Warranty	3 Years					

Zigbee System



Gateway (4G Sim Card inside)



Zigbee Module + Solar Controller

The zigbee control system is an integrated smart control system, the light control module is composed of two parts as solar controller and the signal module, These two parts are connected via the RS485 interface as the light control part. It communicates with the gateway with the Zigbee signal.

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Zigbee:

The bottom layer uses free wireless frequency communication, and the bottom layer data is transmitted to the Internet through a centralized gateway, so that one gateway can manage multiple street lights.

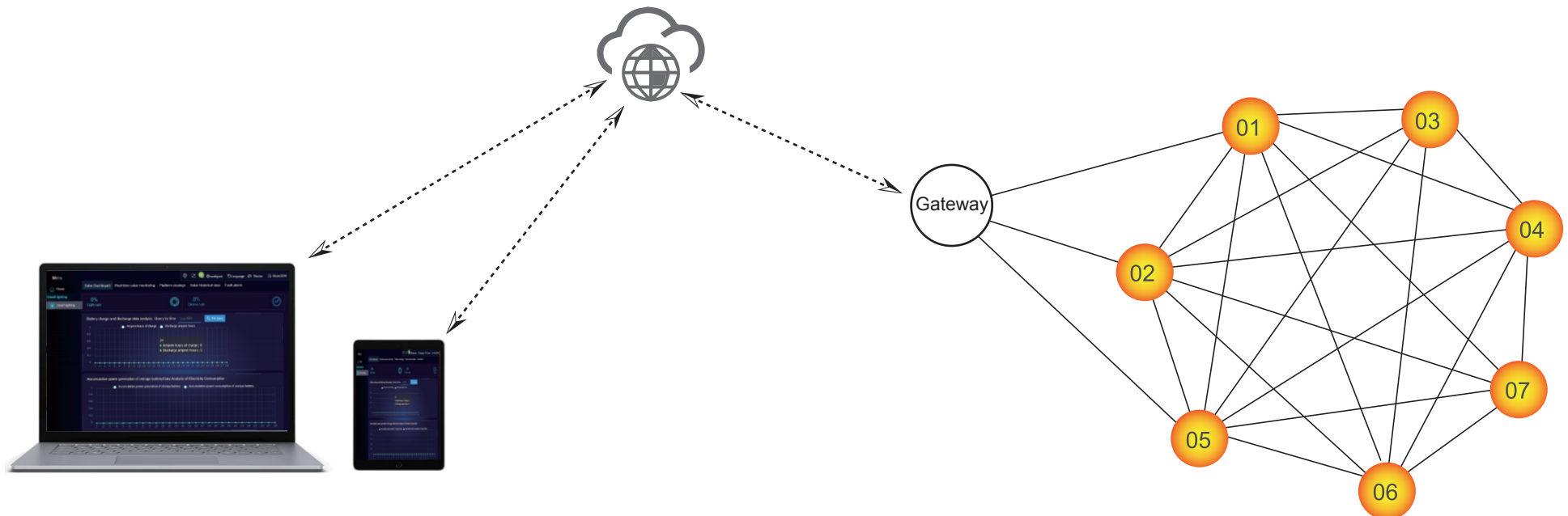
Advantages: when mass street lamps are used, the communication fee is relatively low.

2G/4G/GPRS/NB-IOT

The direct connection scheme is adopted, and there is no centralized manager, and the signal transmission is carried out through the base station of the mobile operator.

Advantages: The signal reliability and safety are relatively high, the construction is relatively simple, and there is no need to install a concentrator.

Disadvantages: The communication module and communication fees are relatively high.



More information, please refer to the Zigbee system datasheet of



EXPO
2020
DUBAI
UAE

SolarWrap

VERTICAL SOLAR POLE

Showcasing real
solutions to the
world's biggest
challenges.

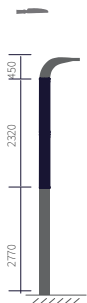
Designed by Mr.Auroras, the vertical solar lighting pole is a great innovation for outdoor lighting. It is a revolutionary design with an aesthetic appearance and high stability of lighting performance. The concept of vertical solar lighting pole is delivered to every corner of the world globally with the impact of Expo Dubai.



Popular Models

30W

Order code	S03020005
Solar light head	HELIOS AI-U30W
LED power	30W
Luminous flux(lm)	>4,800lm
Power of solar module	200W
Vertical solar module	Q100 2pcs
LifePO4 battery	12.8V 307WH
Charge controller	MPPT
Pole height	5 meters
Warranty	5 years



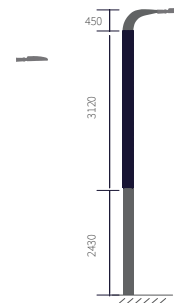
30W*2

Order code	D03040007
Solar light head	HELIOS U30W * 2
LED power	30W X 2
Luminous flux(lm)	>4,800lm
Power of solar module	280W
Vertical solar module	Q100 4pcs
LifePO4 battery	12.8V 307WH * 2
Charge controller	MPPT
Pole height	7 meters
Warranty	5 years



60W

Order code	S06028006
Solar light head	HERMES T6
LED power	80W
Luminous flux(lm)	>8,800lm
Power of solar module	280W
Vertical solar module	Q140 2pcs
LifePO4 battery	12.8V 538WH
Charge controller	MPPT
Pole height	6 meters
Warranty	5 years



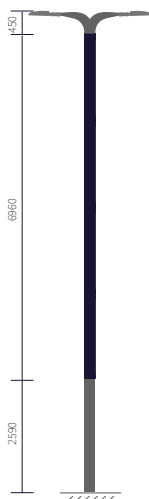
80W

Order code	S08042008
Solar light head	HERMES T8
LED power	80W
Luminous flux(lm)	>12,800lm
Power of solar module	400W
Vertical solar module	Q100 4pcs
LifePO4 battery	25.6V 768WH
Charge controller	MPPT
Pole height	8 meters
Warranty	5 years



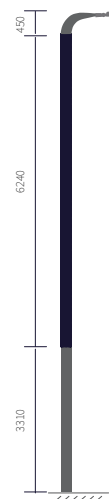
80W*2

Order code	D08084012
Solar light head	HERMES T8
LED power	80W X 2
Luminous flux(lm)	>12,800lm * 2
Power of solar module	840W
Vertical solar module	Q140 6pcs
LifePO4 battery	25.6V 768WH * 2
Charge controller	MPPT
Pole height	12 meters
Warranty	5 years



100W

Order code	S10056010
Solar light head	THOR T10
LED power	100W
Luminous flux(lm)	>14,800lm
Power of solar module	280W
Vertical solar module	Q140 4pcs
LifePO4 battery	25.6V 921WH
Charge controller	MPPT
Pole height	10 meters
Warranty	5 years





@ Philippines



@ Japan



@ U.A.E



@ Pakistan



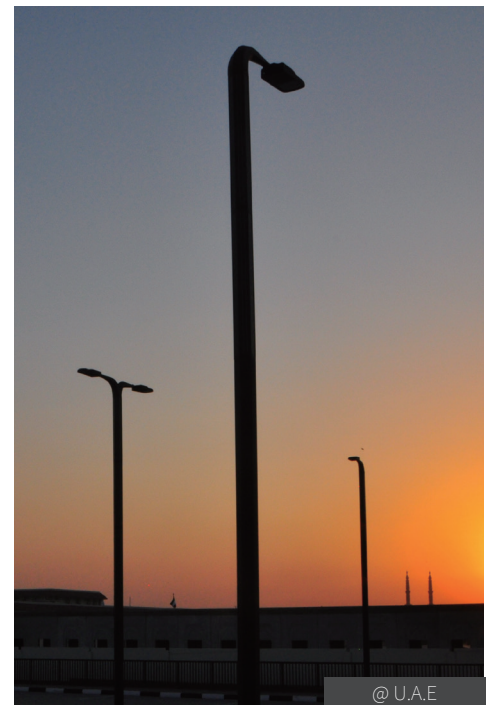
@ Philippines



@ Saudi Arabia



@ Oman



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