SOLAR STREET LIGHT



Project:	
Туре:	
Catalog #:	

SPECIFICATIONS

Outdoor solar lighting system uses solar cells which convert sunlight into electricity. Electricity is stored in the battery for use at night. JQL Solar LED Street Light features all in one design function, low profile design with PIR/microwave motion sensor and smart controller all built in with bifacial solar panel. JQL Series Solar Lights are easy to install and virtually maintenance free.

- Economical, easy to install, all in one integrated with bifacial solar panel on top and bottom for faster charging time.
- Philips LumiLEDs luxeon 5050 chip creates a first class light source 180 lumen per watt, with the aluminum lamp base and sealed lens with its excellent heat dissipation.
- The sealed lenses are made of strong UV protected PC and are aging and shock resistant.
- The light automatically switches on at dusk and switches off at dawn. 50% permanent lighting, when motion is detected power turns to 100%.
- Deep cycle battery, charge and discharge over 2000 times, continuously works 2-3 rainy days in intelligent mode.
- MPPT controller automatically track the maximum power point according to the weather variation, charging rate 30%.
- 180 Lumen per watt and IP65 & IK08 rated
- 3 Years warranty on all components
- Optional Accessory : Intelligent App Control, IOT Management system, Camera, Bird Spikes



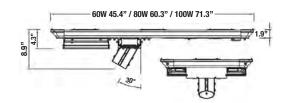
SOLAR STREET LIGHT

UP TO 180LM/W

SUPPORT 12HOURS UNDER 2-3 RAINY DAYS POWER: 60W/80W/100W



Angle of Light Source: -60° / +60°



ORDERING INFORMATION

Model	Po	ower	Solar	Panel	Lumens	C	ст	Charge Time (Hrs)	IP Rating	Installation Height (Ft)
JQL	6	60W	10WP	100Wp	10800lm	5K	5000K	6	IP65	26-29
	8	80W	13WP	130Wp	14400lm					32-36
	10	100W	16WP	160Wp	18000lm					39-42

SOLAR STREET LIGHT



PRODUCT DESCRIPTION

Outdoor solar lighting systems use solar cells which convert sunlight into electricity. The electricity is stored in batteries for use at night. The JQL Series solar light is easy to install and virtually maintenance free.

• JQL features all-in-one design function, low profile design, photocell sensor, timing, dimming, intelligent power saving, morning light, and microwave sensor available.

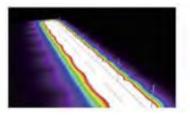
• Bifacial Solar Power design - suitable for remote regions and no-electric supply zones.

• Deep cycle battery, charge and discharge over 2000 times.

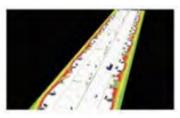
PHOTOMETRY

PHOTOMETRIC DESIGN

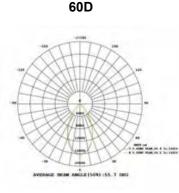
Planning and analyzing of street lights can be done by using lighting design software, which allows lighting simulations.



Example of an urban branch road



Example of a main road/parking lot

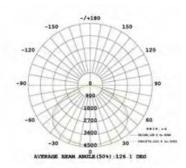


FEATURES

- Die-cast aluminum housing, anti-corrosion coating
- Easy battery replacement design, can be renewed every 7 years
- Ultra-high light efficiency, 10W equivalent to 20W of others
- Bilateral solar panels, overall conversion
- efficiency is increased by 30%
- Rotate-able LED module
- Accurate optical road lighting designs, adapt to various conditions with no waste of light

90D

120D



OPTIONS / ACCESSORIES

- 4KV Surge Protection
- Intelligent APP Control
- IOT Management
- AC&DC Complementary USB Power
- Alarm
- Security Camera

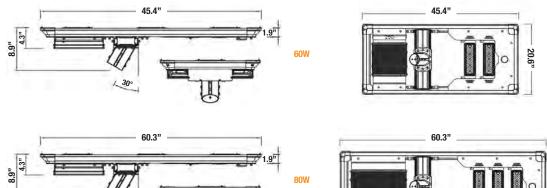


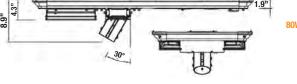


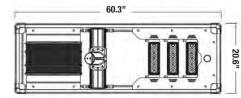
TECHNICAL SPECIFICATIONS

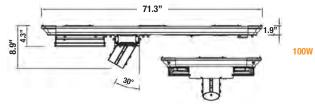
Wattage	60	WO	80	W	10	100W	
LED Chips	3030	5050	3030	5050	3030	5050	
Lumen Output	9000l m	10800l m	12000l m	14400l m	15000l m	18000l m	
Solar Panel	18V100W		36V:	36V130W		36V160W	
Efficacy	150lm/w	1801 m/w	150lm/w	1801 m/w	150l m/w	1801 m/w	
Optional Beam Angle	60°/90°/120°						
ССТ		3000K~6500K					
Input Voltage	12-24V DC						
LED Driver	Meanwell OR Others						
IP & IK	IP65 & IK08						
Photovoltaic panel	Double crystal photovoltaic panel						
Power of PV Module	100Wp		130Wp		160Wp		
Li en Detteni	538WH		768	768WH		922WH	
Li-on Battery	538WH 12.8V42AH		768WH 25.6V30AH		922WH 25.6V 36AH		
Charing Time	6hrs		6hrs		6hrs		
Run Time(@full power)	8hrs		8hrs		8hrs		
Installation Height	8-9M(26-29ft)		10-11M(32-36ft)		12-13M(39-42ft)		
Opertating Temperature			-20℃ to 50℃	(-4°F to 122°F)			
Charing Temperature	-0°C to 65°C (32°F to 149°F)						
Control system	MPPT intelligent controller						
Maximum Autonomy	Operate under 2-3 rainy days						
	30%-100% 28hrs		30%-100% 28hrs		30%-100% 28hrs		
Motion Sensor Mode	20%-80	0% 40hrs	20%-80	% 40hrs	20%-80	% 40hrs	
	100% 8hrs		100% 8hrs		100% 8hrs		
Constant Mode	70% 12hrs		70% 12hrs		70% 12hrs		
	40% 20hrs		40% 20hrs		40% 20hrs		
Control Options	Photocell sens sensor a v ailab		l ning, intelligent	power sa v ing, r	I norning light, n	iicrowa v e	

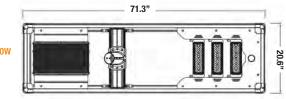
DIMENSIONS











FME Lighting | 877-234-8460 | info@fmelighting.com Specifications and dimensions subject to change without notice.

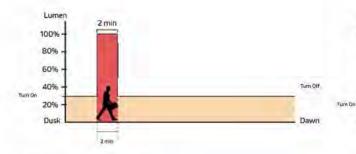
SOLAR STREET LIGHT



AUTONOMY CONTROL GUIDE

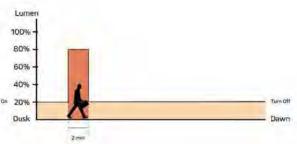
30%~100% MOTION SENSOR MODE

Constant 30% brightness (turns on at dusk, turns off at dawn); 100% brightness turns on for 2 minutes when motion is detected.



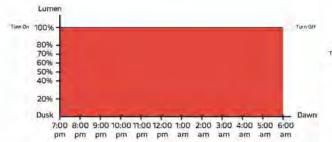
20%~80% MOTION SENSOR MODE

Constant 20% brightness (turns on at dusk, turns off at dawn); 80% brightness turns on for 2 minutes when motion is detected.



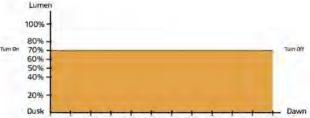
100% CONSTANT MODE

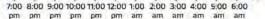
100% brightness from dusk to dawn.



70% CONSTANT MODE

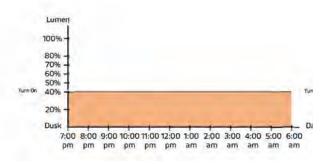
70% brightness from dusk to dawn.





40% CONSTANT MODE

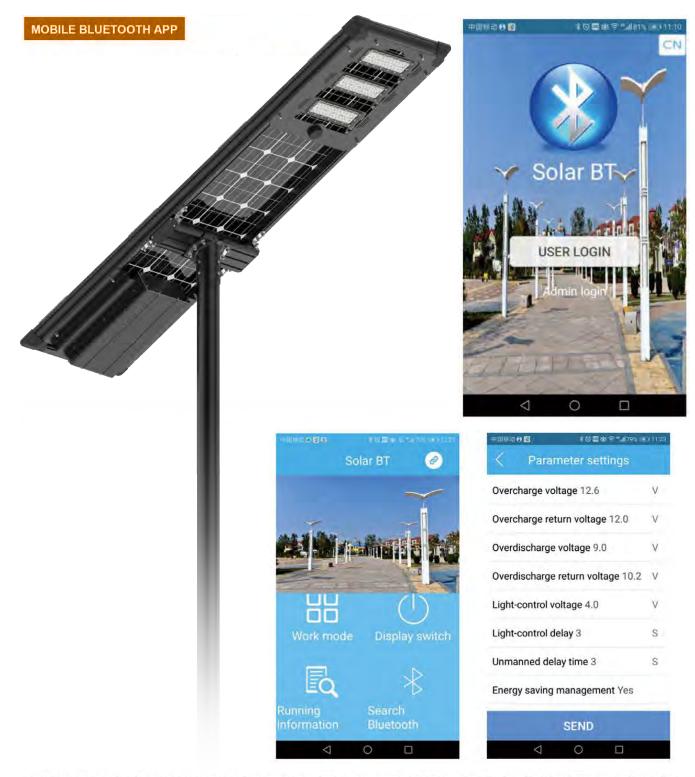
40% brightness from dusk to dawn.





SOLAR STREET LIGHT

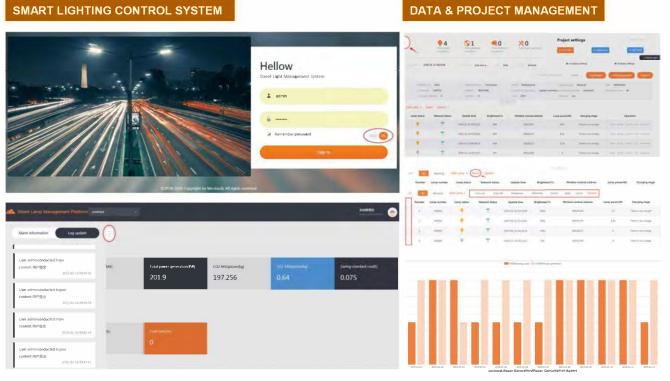




· Multiple lighting modes can be programmed remotely by Mobile Bluetooth APP Solar Street light with inbuilt Bluetooth for health monitoring with APP

SOLAR STREET LIGHT





• The system can pre-set one or more lighting modes according to different time of day and traffic flow, automatically turn on or off any lamp, and adjust the switching time and illumination according to environmental requirements to achieve the purpose of energy saving and consumption reduction.

IOT MANAGMENT, INTELLIGENT LIGHTING

We perfectly combine traditional solar street lighting architecture+Internet of things + wireless communication technology perfectly, achieve monitoring and management of remote background data, real-time understand the normal working status of each component of solar energy (street lights, photovoltaic panels, batteries, controllers), allow you to know the end customer's product usage that is thousands of miles away without leaving home, or to manage the opening and closing of street lights and the adjustment of bright spot power in a timely manner.



Remote monitoring real time monitoring

JQL series with wireless communication function, Through the intelligent managenent system of solar street lamp and wireless module, have remote monitoring and real-time monitoring.



Real time monitoring of solar panel voltage, current, power, battery charging and discharging current, voltage, load working state, controller working state data and fault automatic alarm.



Remote control

Support remote switch on and off dimmer and battery, load parameter modification.



Fault tracking and precise positioning

Multi peak PWM technology, suitable for partial shading or partial damage of photovoltaic cells, and the tracking efficiency is more than 99%.



Map location

Using GIS maps, with geopraphic display capabilities.

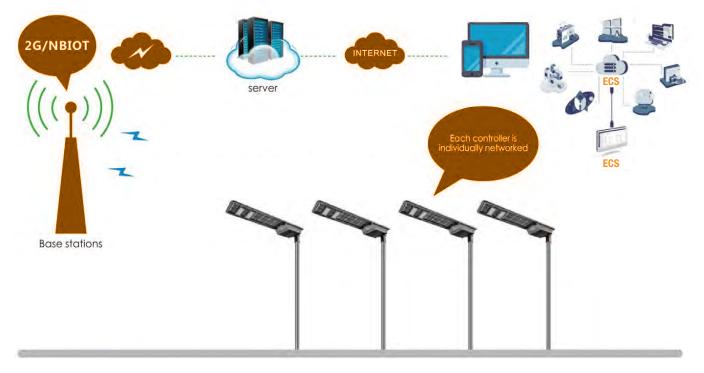


FME Lighting | 877-234-8460 | info@fmelighting.com Specifications and dimensions subject to change without notice.

SOLAR STREET LIGHT



The Internet of Things solar street light management system is mainly composed of a street light component+a centralized controller+a single light controller+a smart cloud platform. The centralized controller and the single light controller aggregate the data collected by the single light via the GPRS/NB-IOT wireless communication network. The centralized controller uploads data to the system cloud platform through GPRS data flow, providing data dependence for mobile phone and computer terminal access.



	controller type	PWM+IO1 controller		Instruction
I	Light decay detecting	V.	Automatic light decay detection and adjustement	

Solar led street light controller type	PWM+IOT controller	Instruction
Light decay detecting	V	Automatic light decay detection and adjustement
Charging in rainy days	Ý	PWM charge 3 rainy days is equivalent to a sunny day
Battery management		Battery lifespan management
Remote monitoring		Remotely monitor the status of each street light in real time
Optimize configuration	V	Through data analysis, complete the optimal configuration of solar panels and batteries in different regions
Fault alarm	√	Automatically detect system failures and alert to mobile phones or computers
Intelligent analysis	V	Automatically collect the detailed data for per light at per night, and statistical report analysis
Artificial intelligence	V	Big data collection and analysis through the system platform, complete the intelligent operation of street light and achieve stable lighting throughout the year

SOLAR STREET LIGHT







