Excel Series Spec Sheet

Advantage:

- Wireless Application-Integrated solar panel, LED, lithium battery, micro-controller and other accessories into one system, simple and stylish.
- Micro-computer Controlled-Combine light control system and time control system perfectly, ensure whole system more energy-efficient.
- Easy installation-No power required, no cables required, easy installation in 5 minutes.
- Solar panel angle Adjustable-Adjustable in vertical and horizontal direction, ensure maximum efficiency of solar energy conversion.
- Good heat Dissipation-Solar panel, battery and light body do not connect directly, they will not conduct heat to each other, to support good heat dissipation and long lifetime.
- Extreme Light-Light efficiency reach 160lm/w, at same illumination, lower watt available.
- Lithium Battery-Adopt lithium battery to replace traditional gel battery, longer lifetime.
- Modular design-All components are modular design and in standardized production. Battery can be easily replaced if needed.
- Low Cost-Compared with traditional solar led lights, much lower cost, easy to transport.

SolarPath™
sun solutions

Feature:

- Beautiful and modern appearance, simple and fashionable.
- Use of solar green energy, environment friendly, saving more.
- Low voltage driving, meet the Europe standard of CE RoHS FCC.
- No Hg, Pb or other hazardous materials, no radiation, human safety .
- IP65 grade, TVS lightning protection.
- Long lifetime of whole lamp, low maintenance costs.

Details:

Monocrystalline

- 18% photoelectric conversion efficiency
- Tempered glass cover
- 20-25 years lifetime

High lumen led chip

- 45milled chip, 160lm/w
- 50000hrs lifetime
- 70Ra CRI

Solar Path Smart Controller

- Solar Path unique Design
- Combine light control and time control perfectly, ensure whole system more enery efficient
- Smart control, saving more and system works stably

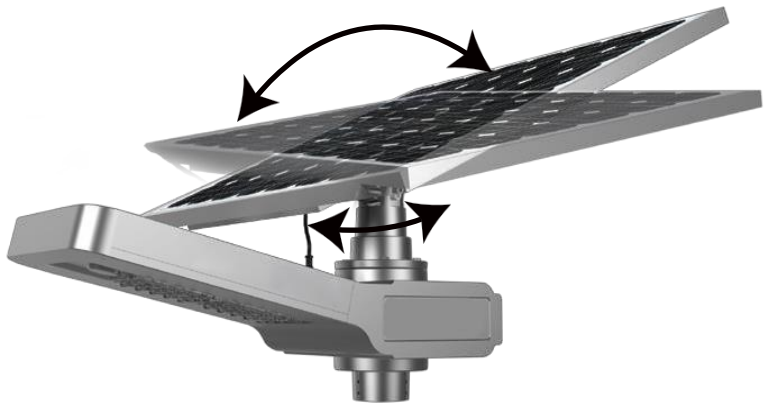
LiFePO4 Battery

- High capacity
- No pollution and stable
- 5-8 years lifetime,2000 times charge & discharge
- High temperature resistance

High quality body

- Aluminum alloy, solid and firm
- Zinc plated, anti-rust corrosion
- Variety of installation methods

Solar panel angle adjustable schematic diagram:



Spec:

Type	Excel 1000	Excel 2000	Excel 3000	Excel 4000	Excel 5000
LED Power	15W	20W	30W	40W	50 W
Solar panel	50W/18V	65W/18V	80W/18V	100W/18V	150W/18V
Lithium battery	170WH/12.8V	212WH/12.8V	340WH/12.8V	424WH/12.8V	610WH/11.1V
LED qty	40pcs	40pcs	60pcs	60pcs	60pcs
Luminous flux	1800-2100lm	2500-2800lm	3600-4200lm	5000-5600lm	7200-7500lm
Charge time(full sunlight)	5.5hrs	5.5hrs	7hrs	7hrs	6.5hrs
Lamp Body	28.5*13.9*11in	28.5*13.9*11in	28.5*13.9*11in	28.5*13.9*11in	28.5*13.9*11in
Panel	25.5*23.4*2.44in	28.5*25.9*2.44in	32.8*28.7*2.44in	39.5*29.7*2.55in	26.2*51.9*2.44in
LED chip	Bridgelux				
Color temperature	3000-6500K				
CRI	⩾70Ra				
Light control voltage	5V				
Light distribution	Bat wing with polarized light				
Lighting time	2-3 days				
Sensor distance	16.4-32.8ft			/	
Sensor time	20-30s			/	
Working temperature	-4F- 140F				
Lifetime	⩾50000hours				
Material	High quality aluminum alloy, die-cast aluminum				
Pole top diameter	2.75in				
Mounting height (recommendation)	16.4-32.8FT				
Installation spacing (recommendation)	32.8-98.4				

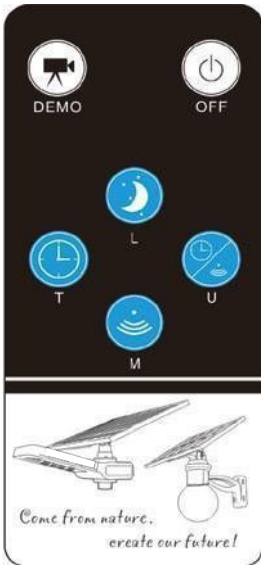
The working time will be affected by the surroundings.

Applications:

Widely used in Rural road, Courtyard, Villa, Park, Square, Farm, School, Factory, Slow lane etc. The places where outdoor lighting is needed the most.

Luminous intensity distribution curves:

Working mode



DEMO: No matter day or night, light "on" for 1 minute. Only for test use

OFF: Light "off", no matter day or night

L: At night, 100%-1hr, 70%-3hrs, 20%-dawn.

T: At night, 100%-5hrs, 50%-7hrs(dawn)

M: At night, 50%-1hr, 100%-3hrs, 20%-dawn.

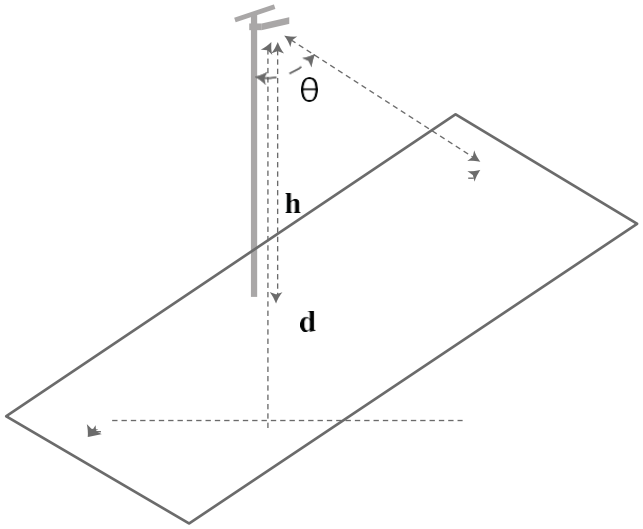
U: At night, 100%-2hrs, 60%-2hrs, then sensor working, 60% if activated, 20% stand-by.

Remark: Default is L mode, can choose best mode according to different sunshine radiation

Note:

1. The three LED indicator lights will twinkle if modes changing successfully, and above modes only be used for Excel 1000, Excel 2000, Excel 3000
2. Once a certain mode was set successfully, it will be reserved until you change other modes with remote control.
3. Excel 4000, Excel 5000 do not include light motion sensor.

Attentions of motion sensor function



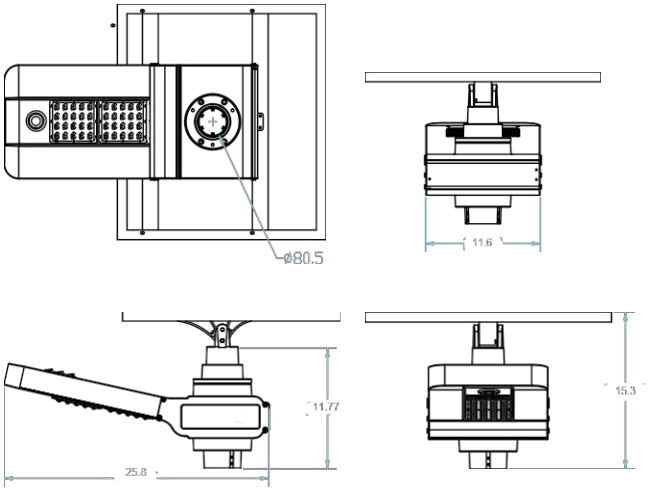
θ (Angle)	h (Height)	d (width)
65°	19.6FT	32.8FT

3. Sensor should be installed under 19.6 FT

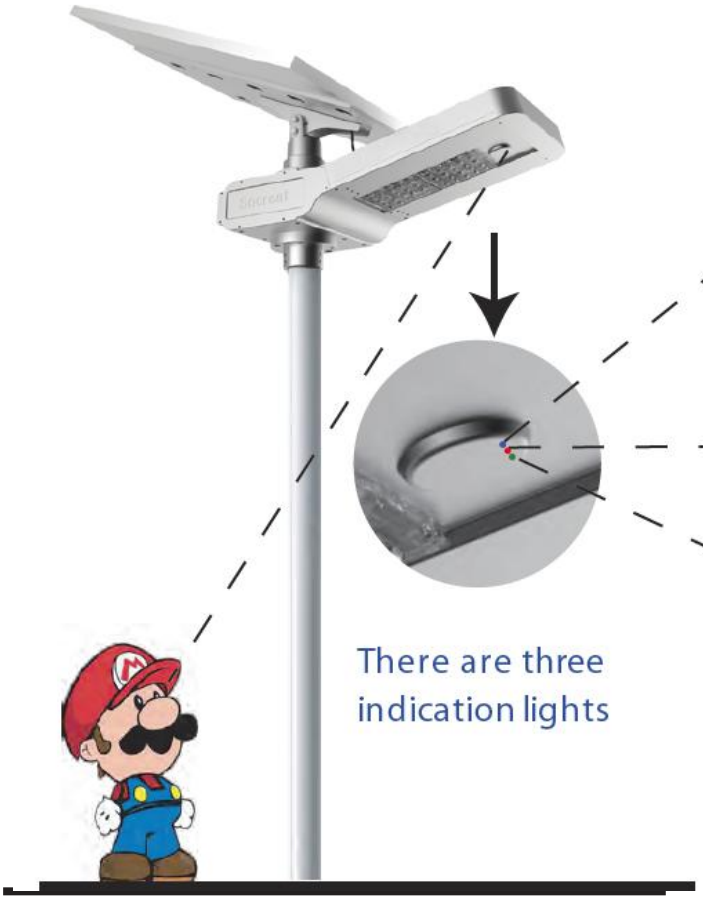
Using Instructions:

- Solar Excel Light need solar power to charge battery, please select appropriate model based on local sunshine conditions.
- Please avoid solar panel be block by building, trees or other obstructions, otherwise it will reduce efficiency of solar panels working, resulting in lower efficiency of system.
- Charging temperature of Lithium battery is 32F to 131F the discharging temperature is -4F to 140F make sure that ambient temperature is in this range when used, avoid damage to lithium battery.
- Please cleaning surface of solar panels regular, such as dirt, leaves, oil, etc., ensure high photoelectric conversion efficiency.
- Cleaning snow of solar panel surface timely in winter.

Excel Series dimensions:

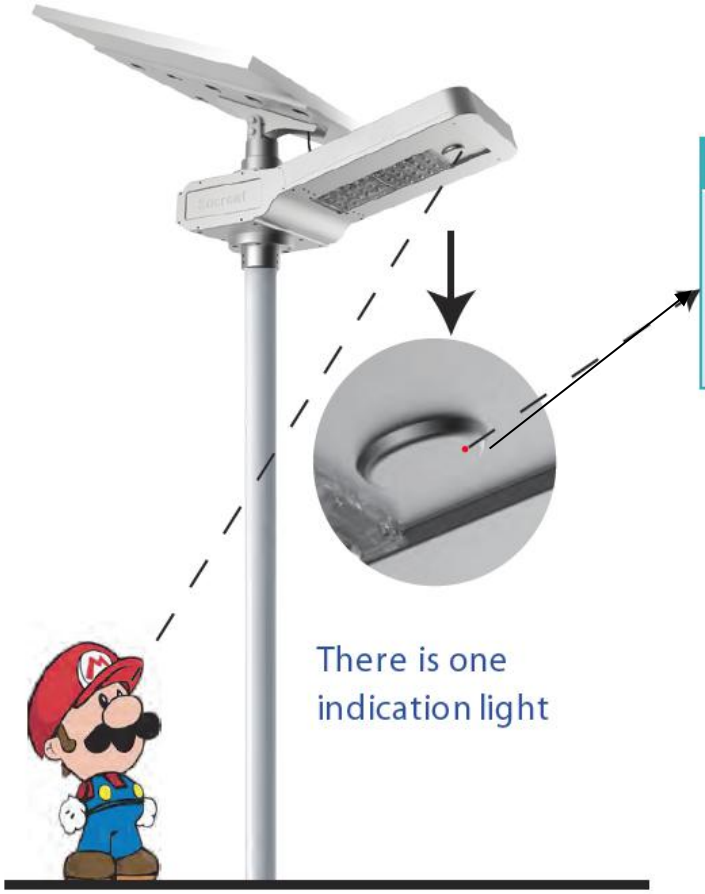


Controller status instructions



Excel1000, 2000, 3000

LED light	Indications	Status	Functions
Blue	Charging indication	Long-term On	The solar panel voltage is higher than light control voltage
		Long-term Off	The solar panel voltage is lower than light control voltage
		Slow twinkling	Be on charging
		Fast twinkling	System overvoltage
RED	Battery indication	Long-term On	Battery works normally
		Long-term Off	Battery is not connected/No power
		Fast twinkling	Battery is over discharged
Green	Load indication	Long-term On	Load is on
		Long-term Off	Load is off
		Slow twinkling	Load is in short circuit
		Fast twinkling	Load is in open circuit



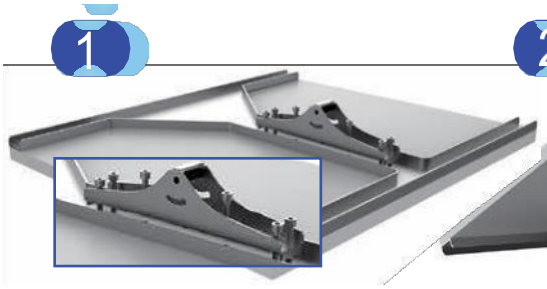
Excel 4000/5000

LED light	Indications	Status	Functions
RED	LED/Battery/ Solar panel	Long-term On	Battery works normally
		Long-term Off	Battery is not connected/No power
		Slow twinkling	Be on charging
		Fast twinkling	System faults

Note: System faults include:

1. Over discharging of battery.
2. System overvoltage.
3. LED load in short circuit.
4. LED load in open circuit.

Easy installation



Fix bracket on the panel.

Fix rotating head on the panel.

Connect the panel to the light body