



Solar Flybird Light

The No.1 brand of intelligent solar street light



Detailed Spec of Solar Flybird Light



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 210lm/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.

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 lighting protection.
- Long lifetime of whole lamp, low maintenance costs.

Details:

Monocrystalline



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

Birdgelux led chip



- 45mil led chip, 210lm/w
- Bat wing lens with polarized light
- ≥50000hrs lifetime
- ≥70Ra CRI

Smart Controller



- unique design
- Combine microwave sensor light control and time control perfectly, ensure whole system more energy 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

Perfect structure design



- No screw on the face of flybird light
- IP65 waterproof
- Match different style of pole

"Flybird" shape light body



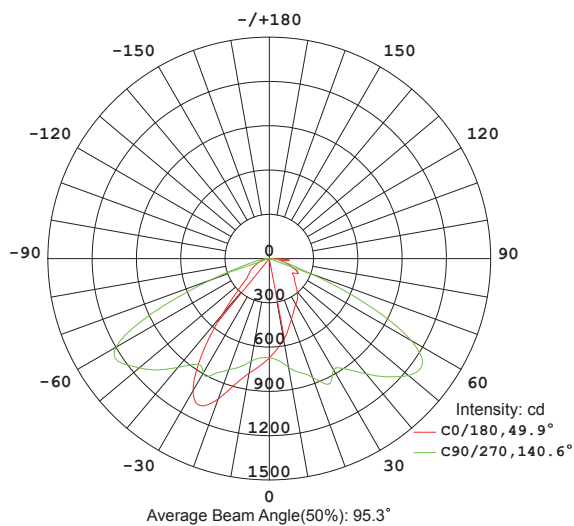
- Socreat patent design
- modern and fashion appearance

Applications:

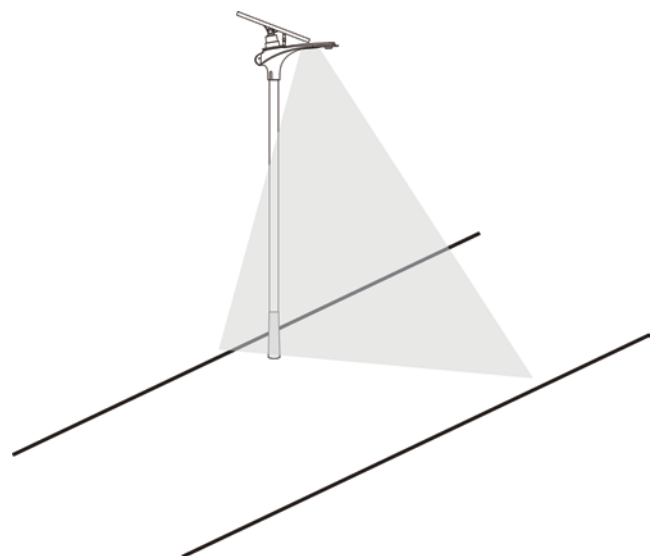
Widely used in Rural road, Courtyard, Villa, Park, Square, Farm, School, Factory, Slow lane etc...the places where need outdoor lighting and with enough sunshine.



Luminous intensity distribution curves:



Bat wing lens with polarized light

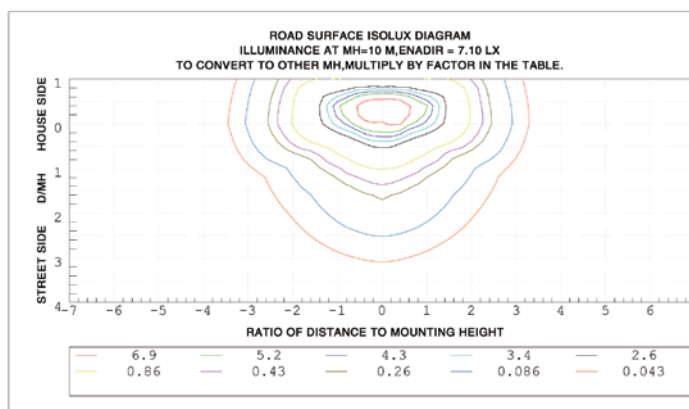


Solar panel angle adjustable schematic diagram:



Parameters:

Type	RS-FB50
Lamp power	15W
Solar panel	50W/18V
Lithium battery	170WH/12.8V
LED qty	24pcs
Luminous flux	2260lm
Charge time(full sunlight)	5.5hrs
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	5-10m
Sensor time	20-30s
Working temperature	20°C~+60°C
Lifetime	≥50000hours
Material	High quality aluminum alloy, die-cast aluminum
Pole top diameter	60mm
Mounting height	5-6meters
Installation spacing	10-30meters



RS-FB50 (2260, 361lm)		
Installation height	Factor	Illuminance at MH (LX)
5	4.000	28.400
6	2.778	19.724
7	2.041	14.491
8	1.563	11.097
9	1.235	8.846
10	1.000	7.100
11	0.826	5.865
12	0.694	4.927

The data of its working time was measured at latitude 22 °, 113 ° east longitude in sunny days. The working time will be affected by the surroundings.

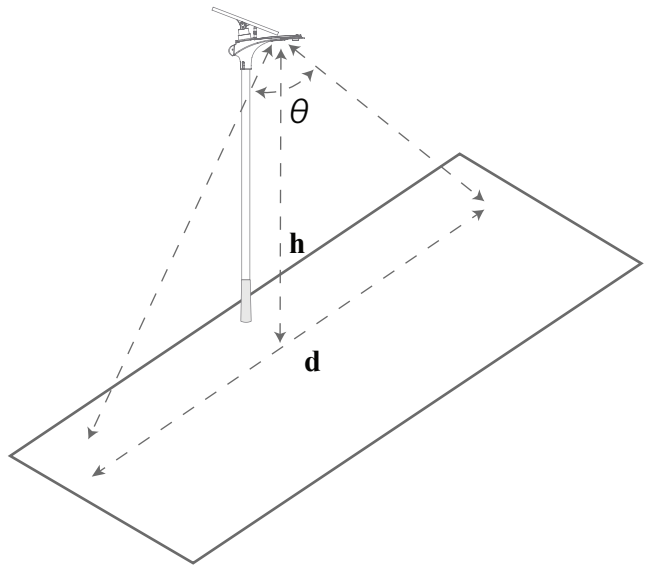
Working mode



- DEMO:** No matter day or night, light "on" for 1 mintue. 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 people come, 20% stand-by.

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

Attentions of motion sensor function



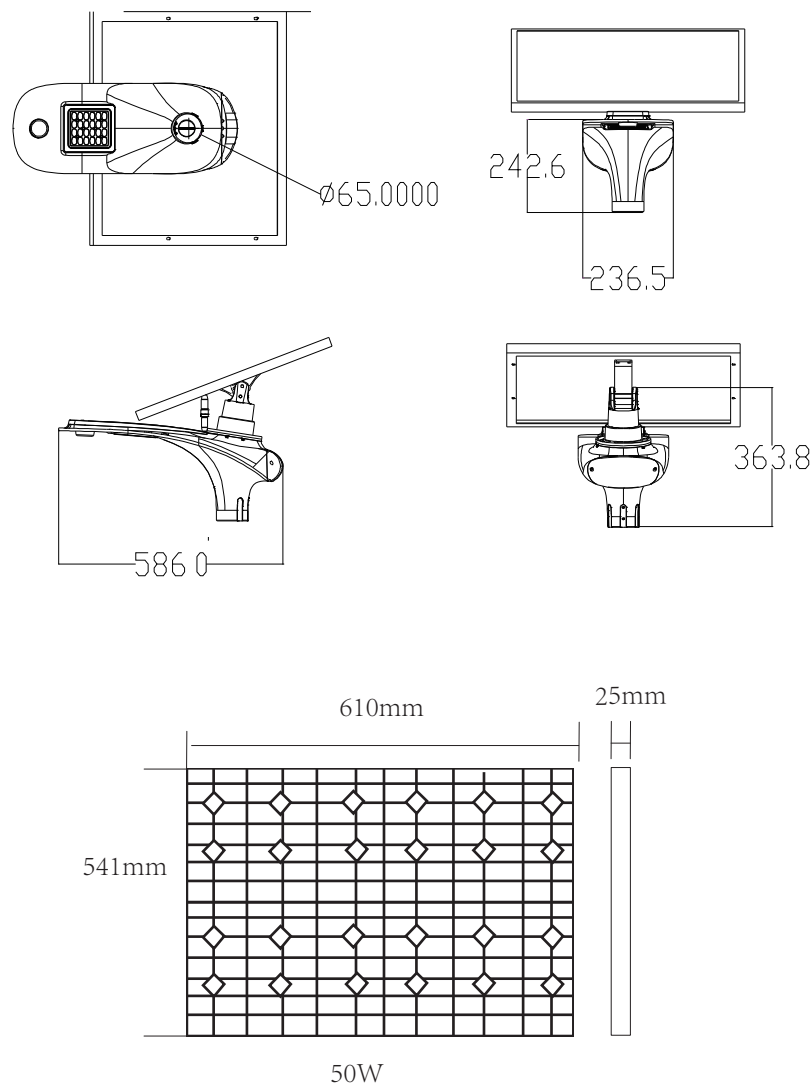
θ (Angle)	h (Height)	d (width)
65°	6m	10m

1. Sensor area tested from a person at the average height of 1.6~1.7m, walking speed for 1.0~1.5 m per second. If testing standard different, sensor area will be different.
2. Sensor functions are greatly influenced by metal environment, so pls install it far away metal block.
3. Sensor against the metal block in front of it.
4. Sensor can get through glasses, wood board, plasterboard and other non-metallic object.
5. Sensor should be installed under 6m height.

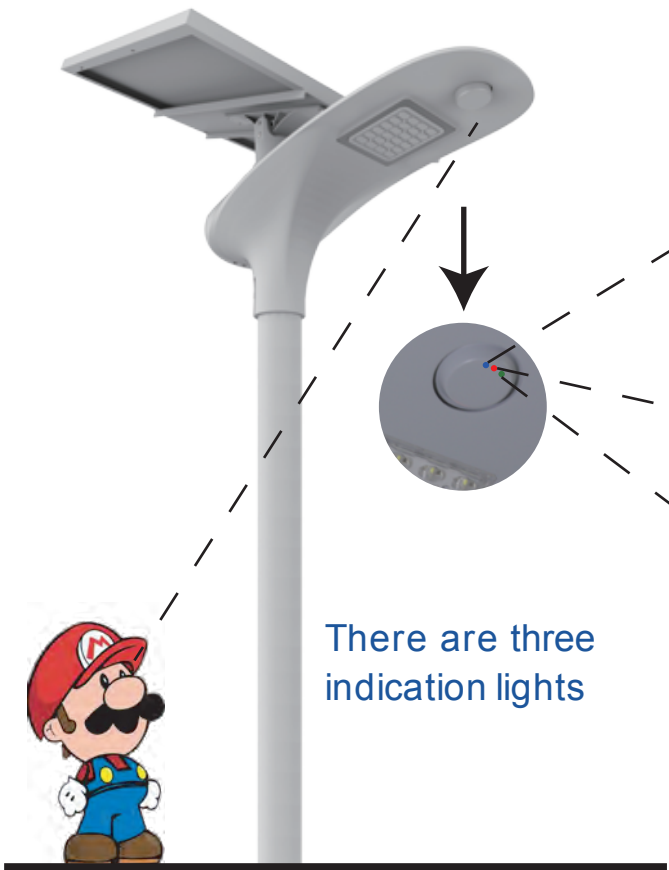
Using Instructions:

- Solar Flybird 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 0°C to 55°C, the discharging temperature is -20°C to 60°C, make sure that ambient temperature is in this range when used, avoid to damage 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.

Flybird light dimension:



Controller status instructions



RS-FB50

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

- Note:** System faults include:
1. Over discharging of battery.
 2. System overvoltage.
 3. LED load in short circuit.
 4. LED load in open circuit.

Decorating function with aesthetic design :

6 colors switch by turn



Easy installation in 5 minutes!



Fix bracket on the panel.



Fix rotating head on the panel.



Connect the panel to the light body.

Package specification:

Pack one lamp with two cartons.

Type	Parts	Box size(L*W*H)	Net Weight	Gross Weight	Volume Weight	20GP	40GP
RS-FB50	Lamp body	640*283*275mm	10kg	11kg	16kg	330sets	600sets
	Panel	675*595*62mm	6kg	7kg			

Color box packaged, anti-shock packaging material, with bubble bags and foam, ensure transport safety.

