



Bluesmart

Smart solar street light

BROCHURE 2017

# FLY EGRET SERIES

Innovative Integrated Solar Street Light



# Core Technologies

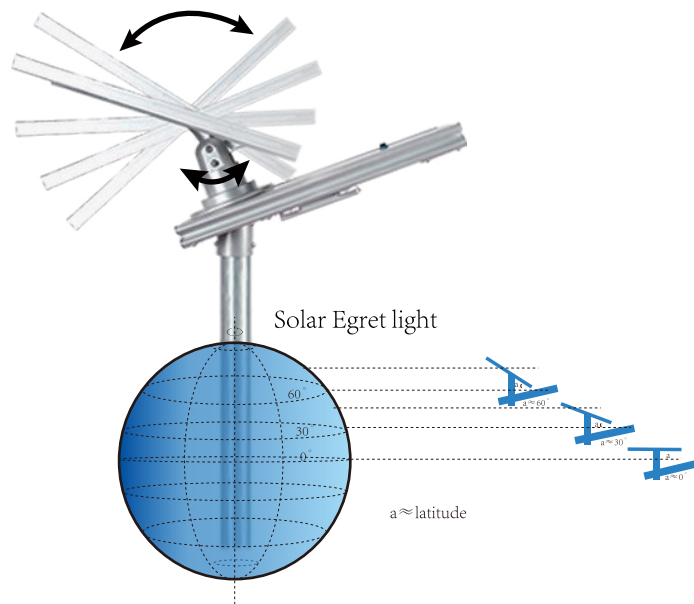
## Patent Integration Design

The combination of an adjustable solar panel, battery, controller and LED in one body makes the all in one solar light.



## 360° Solar Panel Rotated

Solar panel can be adjustable manually in vertical and horizontal direction, ensure the maximum efficiency of solar energy.



## Light Efficiency Management

### LED Chip

Bluesmart led chip can reach **150lm/w**, the light efficiency is 75% higher than common led chip of 100lm/w.



### Patent Bat-wing Lens

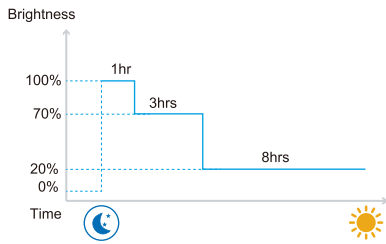
Patent bat-wing lens with polarized light customizable designed for fly egret light, lighting area much wider, the maximum of using the lighting all light on the road.



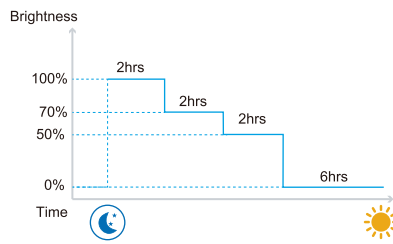


# Humanized Intelligent Remote Control Technology

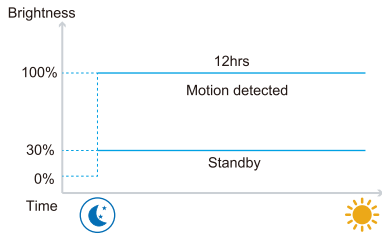
Default is M mode, you can choose the best mode according to different sunshine conditions. (Customized working mode with respect to customer's different requirement)



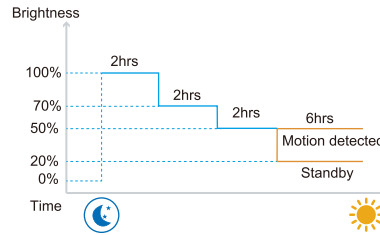
**Light control**



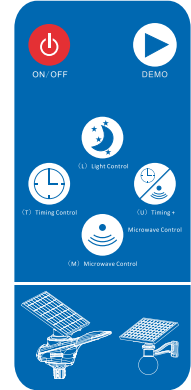
**Time control**



**Microwave control**



**Time+Microwave control**



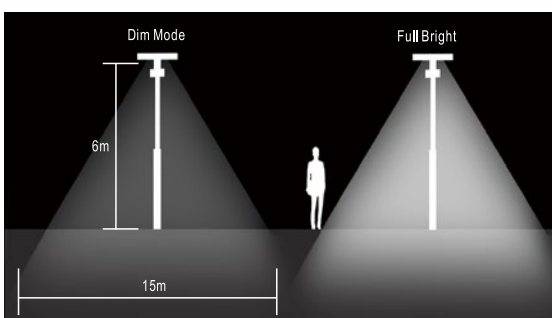
# Advanced LiFePO4 Lithium Battery

Compared with ternary battery, LiFePO4 lithium-iron battery discharge depth is **4 times** higher and it's cycle life is **5 times** longer than ternary battery, resistance high temperature up to 65°, low as -25° in extreme working condition. Battery long lifespan is up to 8 years with bluesmart patent battery management technology.



# Microwave Motion Sensor

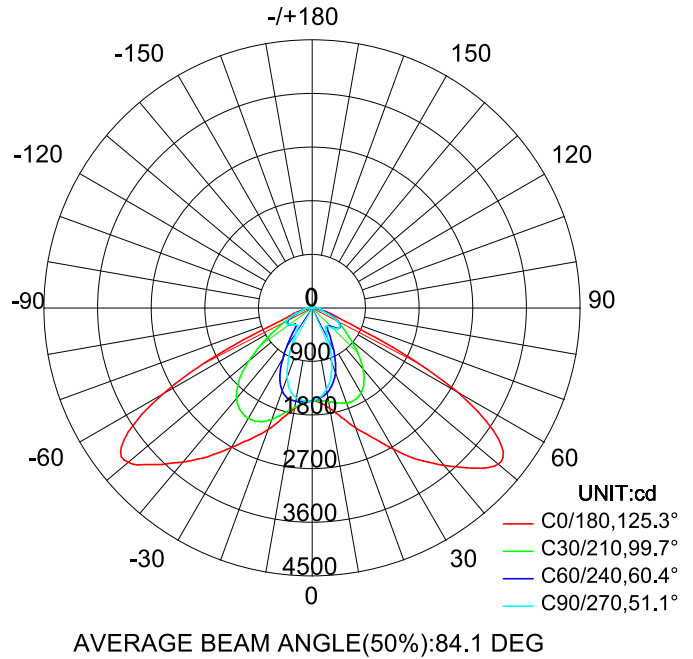
Microwave motion sensor illumination levels will automatically be regulated from a 'dim-mode' to 'full-brightness' when it detects movements.



# Solar Fly Egret Light



Luminous intensity distribution curves



## Parameters:

| Type                        | BS-FE-15                                | BS-FE-20    | BS-FE-30    | BS-FE-40    | BS-FE-50    | BS-FE-60    | BS-FE-80      | BS-FE-100     |
|-----------------------------|---|-------------|-------------|-------------|-------------|-------------|---------------|---------------|
| Lamp power                  | 15W                                     | 20W         | 30W         | 40W         | 50W         | 60W         | 80W           | 100W          |
| Monocrystalline solar panel | 50W/18V                                 | 60W/18V     | 70W/18V     | 80W/18V     | 100W/18V    | 120W/36V    | 150W/36V      | 200W/36V      |
| LiFePO4 battery             | 15AH/12.8V                              | 18AH/12.8V  | 21AH/12.8V  | 27AH/12.8V  | 33AH/12.8V  | 21AH/25.6V  | 24AH/25.6V    | 27AH/25.6V    |
| LED QTY                     | 28pcs                                   | 28pcs       | 40pcs       | 40pcs       | 56pcs       | 56pcs       | 80pcs         | 120pcs        |
| Luminous flux               | 1950-2250LM                             | 2600-3000LM | 3900-4500LM | 5200-6000LM | 6500-7500LM | 7800-9000lm | 10400-12000lm | 13000-15000lm |
| Charge time(full sunlight)  | 5-7 hrs                                 |             |             |             |             |             |               |               |
| LED chip brand              | Bridgelux (US)                          |             |             |             |             |             |               |               |
| Color temperature           | 3000-6500K                              |             |             |             |             |             |               |               |
| CRI                         | ≥70Ra                                   |             |             |             |             |             |               |               |
| Light control voltage       | 5V                                      |             |             |             |             |             |               |               |
| Light distribution          | Batwing                                 |             |             |             |             |             |               |               |
| Working time                | 3-5 days                                |             |             |             |             |             |               |               |
| Sensor distance             | <25m                                    |             |             |             |             |             |               |               |
| Delay time                  | 10s (optional)                          |             |             |             |             |             |               |               |
| Workingtemperature          | -25℃~+65℃                               |             |             |             |             |             |               |               |
| LED chip lifetime           | ≥ 50000hours                            |             |             |             |             |             |               |               |
| Material                    | High quality die-casting aluminum alloy |             |             |             |             |             |               |               |
| Pole top diameter           | 60-75mm                                 |             |             |             |             |             |               |               |
| Mounting height             | 4-5m                                    | 5-6m        | 6-7m        | 7-8m        | 8-9m        | 9-10m       | 10-11m        | 10-12m        |
| Installation spacing        | 10-13m                                  | 13-16m      | 16-19m      | 19-23m      | 23-27m      | 27-31m      | 30-35m        | 35-40m        |



## Feature

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- \* IP67 waterproof, 3 years warranty.
- \* Free combination configuration as customer request.
- \* Modular all in one design, all components can be detachable, easy for replacement and miantiance.
- \* Vertical installation, horizontal installation, single-arm installation, double-arm installation, a variety of installation styles for you to choose.
- \* All die-cast aluminum light body with zinc plated anti-corrosion, no need to worry about coastal lighting application.

## Applications:

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The All in One solar street lighting system can provide efficient lighting in square, farm, factory, parking lots, park, school, urban street, main road, avenues, highway, coastal jetties, railways and etc, the places where consuming a lot less electricity.

