# Essential SmartBright LED Solar Flood BVC010

## Solar Flood light

Solar flood light with lithium ferro phosphate battery built in the luminaire, Remote controller and installation accessories included. IP65, plastic housing. Available in 600, 1000, 2000, 3000, 4000, 5000 and 6000 Lumens

**Benefits**
- Energy efficient and Environmentally friendly: Solar floodlights are powered by the sun, which means they don't rely on electricity from the grid. This reduces your energy bills and saves you money in the long run.
- Easy installation: Solar floodlights are easy to install and require no wiring or electrical work. This makes them a convenient and hassle-free option. All you need to do is mount them in an area that receives plenty of sunlight.
- Convenience: Turn on automatically at dusk and turn off at dawn, so you don't have to worry about manually turning on and off.
- Increased security : Solar floodlights can improve the security of your home or property by providing bright light in dark areas.
- Increased independence: By using solar floodlights, you are less dependent on the power grid and can enjoy greater independence in terms of your energy needs. This can be especially beneficial in remote or off-grid locations.

# Solar Flood light

## Features
· Solar floodlight range of product— equivalent to 60W, 100W, 200W, 300W, 400W,
  500W and 600W traditional floodlights respectively
· Infra red remote controller to time set working hours
· Plastic housing
· LiFePO4 battery and controller integrated in the luminaire
· PV panel separately
· High luminous efficacy higher than 165lm/watt to maximize battery performance
· LED indicator to read the battery level
· 5m cable between PV panel and luminaire

## Application
· Amenities
· Parking areas
· Landscapes
· Security
· Architectural lighting

## Warnings and Safety
· Install the luminaire in a sunny place that is not shaded by trees, buildings and walls, then the solar panel can receive the
  maximum sunlight for charging the battery.
· Charge the product under sunlight for at least 8 hours before first time using.
· This luminaire does not need any external electrical connection. It works 100% on solar energy.
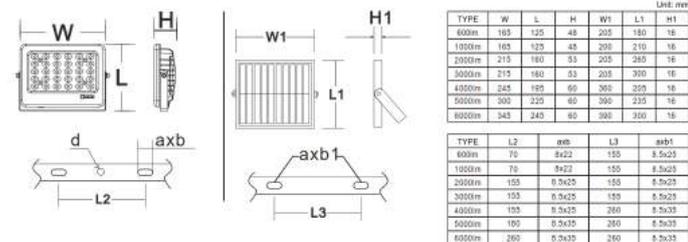
## Versions



**Essential SmartBright LED Solar Flood BVC010**



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## Dimensional drawing



Unit: mm

| TYPE | W | L | H | W1 | L1 | H1 |
|---|---|---|---|---|---|---|
| 600lm | 165 | 125 | 48 | 205 | 180 | 16 |
| 1000lm | 165 | 125 | 48 | 200 | 210 | 16 |
| 2000lm | 215 | 160 | 53 | 205 | 260 | 16 |
| 3000lm | 215 | 160 | 53 | 205 | 300 | 16 |
| 4000lm | 245 | 185 | 60 | 360 | 250 | 16 |
| 5000lm | 300 | 225 | 60 | 390 | 235 | 16 |
| 6000lm | 345 | 240 | 60 | 390 | 300 | 15 |

| TYPE | L2 | axb | L3 | axb1 |
|---|---|---|---|---|
| 600lm | 70 | 8x22 | 155 | 8.5x25 |
| 1000lm | 70 | 8x22 | 155 | 8.5x25 |
| 2000lm | 155 | 6.5x25 | 155 | 8.5x25 |
| 3000lm | 155 | 6.5x25 | 155 | 8.5x25 |
| 4000lm | 155 | 8.5x25 | 260 | 8.5x35 |
| 5000lm | 160 | 6.5x35 | 260 | 6.5x35 |
| 6000lm | 260 | 6.5x35 | 260 | 8.5x35 |

# Solar Flood light

## Light Technical

| | |
|---|---|
| Color rendering index (CRI) | 70 |

### Operating and Electrical

| | |
|---|---|
| Battery type | LiFePO4 |
| Battery voltage | 3.2 V |
| Cable connection kit | Included |
| Charge controller type | PWM |
| Grid connection type | Off grid |
| Panel type | Mono crystalline |
| Panel voltage | 5 V |

### Controls and Dimming

| | |
|---|---|
| Dimmable | Preset Dimming |
| Configurability | Not configurable |
| Solar dimming profile | Preset Dimming |

### Mechanical and Housing

| | |
|---|---|
| Battery location | Inbuilt luminaire |
| Housing Color | Grey |
| Ingress protection code | IP65 |

### Approval and Application

| | |
|---|---|
| Ambient temperature range | 0 to +45 ℃ |

## Light Technical

| Order Code | Full Product Name | Correlated Color Temperature (Nom) |
|---|---|---|
| 911401812503 | BVC010 LED10/765 Solar | 6500 K |
| 911401813903 | BVC010 LED10/730 Solar | 3000 K |
| 911401814603 | BVC010 LED10/765 Solar Pro | 6500 K |
| 911401816003 | BVC010 LED10/730 Solar Pro | 3000 K |
| 911401812803 | BVC010 LED40/765 Solar | 6500 K |
| 911401814203 | BVC010 LED40/730 Solar | 3000 K |
| 911401814903 | BVC010 LED40/765 Solar Pro | 6500 K |
| 911401816303 | BVC010 LED40/730 Solar Pro | 3000 K |
| 911401812603 | BVC010 LED20/765 Solar | 6500 K |
| 911401814003 | BVC010 LED20/730 Solar | 3000 K |
| 911401814703 | BVC010 LED20/765 Solar Pro | 6500 K |
| 911401816103 | BVC010 LED20/730 Solar Pro | 3000 K |
| 911401812903 | BVC010 LED50/765 Solar | 6500 K |
| 911401814303 | BVC010 LED50/730 Solar | 3000 K |
| 911401815003 | BVC010 LED50/765 Solar Pro | 6500 K |
| 911401816403 | BVC010 LED50/730 Solar Pro | 3000 K |
| 911401812703 | BVC010 LED30/765 Solar | 6500 K |
| 911401814103 | BVC010 LED30/730 Solar | 3000 K |
| 911401814803 | BVC010 LED30/765 Solar Pro | 6500 K |
| 911401816203 | BVC010 LED30/730 Solar Pro | 3000 K |
| 911401812403 | BVC010 LED6/765 Solar | 6500 K |
| 911401813803 | BVC010 LED6/730 Solar | 3000 K |
| 911401814503 | BVC010 LED6/765 Solar Pro | 6500 K |
| 911401815903 | BVC010 LED6/730 Solar Pro | 3000 K |
| 911401813003 | BVC010 LED60/765 Solar | 6500 K |
| 911401814403 | BVC010 LED60/730 Solar | 3000 K |
| 911401815103 | BVC010 LED60/765 Solar Pro | 6500 K |
| 911401816503 | BVC010 LED60/730 Solar Pro | 3000 K |

## Operating and Electrical

| Order Code | Full Product Name | Battery ampere hour | Battery charging & discharging cycles | Panel peak wattage |
|---|---|---|---|---|
| 911401812503 | BVC010 LED10/765 Solar | 4 Ah | 500 | 6 W |
| 911401813903 | BVC010 LED10/730 Solar | 4 Ah | 500 | 6 W |
| 911401814603 | BVC010 LED10/765 Solar Pro | 4 Ah | 1000 | 6 W |
| 911401816003 | BVC010 LED10/730 Solar Pro | 4 Ah | 1000 | 6 W |
| 911401812803 | BVC010 LED40/765 Solar | 12 Ah | 500 | 12 W |
| 911401814203 | BVC010 LED40/730 Solar | 12 Ah | 500 | 12 W |
| 911401814903 | BVC010 LED40/765 Solar Pro | 12 Ah | 1000 | 12 W |
| 911401816303 | BVC010 LED40/730 Solar Pro | 12 Ah | 1000 | 12 W |
| 911401812603 | BVC010 LED20/765 Solar | 5 Ah | 500 | 8 W |
| 911401814003 | BVC010 LED20/730 Solar | 5 Ah | 500 | 8 W |
| 911401814703 | BVC010 LED20/765 Solar Pro | 5 Ah | 1000 | 8 W |
| 911401816103 | BVC010 LED20/730 Solar Pro | 5 Ah | 1000 | 8 W |
| 911401812903 | BVC010 LED50/765 Solar | 12 Ah | 500 | 15 W |
| 911401814303 | BVC010 LED50/730 Solar | 12 Ah | 500 | 15 W |

# Solar Flood light

| Order Code | Full Product Name | Battery ampere hour | Battery charging & discharging cycles | Panel peak wattage |
|---|---|---|---|---|
| 911401815003 | BVC010 LED50/765 Solar Pro | 12 Ah | 1000 | 15 W |
| 911401816403 | BVC010 LED50/730 Solar Pro | 12 Ah | 1000 | 15 W |
| 911401812703 | BVC010 LED30/765 Solar | 8 Ah | 500 | 10 W |
| 911401814103 | BVC010 LED30/730 Solar | 8 Ah | 500 | 10 W |
| 911401814803 | BVC010 LED30/765 Solar Pro | 8 Ah | 1000 | 10 W |
| 911401816203 | BVC010 LED30/730 Solar Pro | 8 Ah | 1000 | 10 W |
| 911401812403 | BVC010 LED6/765 Solar | 4 Ah | 500 | 5 W |

| Order Code | Full Product Name | Battery ampere hour | Battery charging & discharging cycles | Panel peak wattage |
|---|---|---|---|---|
| 911401813803 | BVC010 LED6/730 Solar | 4 Ah | 500 | 5 W |
| 911401814503 | BVC010 LED6/765 Solar Pro | 4 Ah | 1000 | 5 W |
| 911401815903 | BVC010 LED6/730 Solar Pro | 4 Ah | 1000 | 5 W |
| 911401813003 | BVC010 LED60/765 Solar | 16 Ah | 500 | 20 W |
| 911401814403 | BVC010 LED60/730 Solar | 16 Ah | 500 | 20 W |
| 911401815103 | BVC010 LED60/765 Solar Pro | 16 Ah | 1000 | 20 W |
| 911401816503 | BVC010 LED60/730 Solar Pro | 16 Ah | 1000 | 20 W |

## Mechanical and Housing

| Order Code | Full Product Name | Overall height | Overall length | Overall width |
|---|---|---|---|---|
| 911401812503 | BVC010 LED10/765 Solar | 48 mm | 125 mm | 165 mm |
| 911401813903 | BVC010 LED10/730 Solar | 48 mm | 125 mm | 165 mm |
| 911401814603 | BVC010 LED10/765 Solar Pro | 48 mm | 125 mm | 165 mm |
| 911401816003 | BVC010 LED10/730 Solar Pro | 48 mm | 125 mm | 165 mm |
| 911401812803 | BVC010 LED40/765 Solar | 60 mm | 195 mm | 245 mm |
| 911401814203 | BVC010 LED40/730 Solar | 60 mm | 195 mm | 245 mm |
| 911401814903 | BVC010 LED40/765 Solar Pro | 60 mm | 195 mm | 245 mm |
| 911401816303 | BVC010 LED40/730 Solar Pro | 60 mm | 195 mm | 245 mm |
| 911401812603 | BVC010 LED20/765 Solar | 53 mm | 160 mm | 215 mm |
| 911401814003 | BVC010 LED20/730 Solar | 53 mm | 160 mm | 215 mm |
| 911401814703 | BVC010 LED20/765 Solar Pro | 53 mm | 160 mm | 215 mm |
| 911401816103 | BVC010 LED20/730 Solar Pro | 53 mm | 160 mm | 215 mm |
| 911401812903 | BVC010 LED50/765 Solar | 60 mm | 225 mm | 300 mm |
| 911401814303 | BVC010 LED50/730 Solar | 60 mm | 225 mm | 300 mm |
| 911401815003 | BVC010 LED50/765 Solar Pro | 60 mm | 225 mm | 300 mm |

| Order Code | Full Product Name | Overall height | Overall length | Overall width |
|---|---|---|---|---|
| 911401816403 | BVC010 LED50/730 Solar Pro | 60 mm | 225 mm | 300 mm |
| 911401812703 | BVC010 LED30/765 Solar | 53 mm | 160 mm | 215 mm |
| 911401814103 | BVC010 LED30/730 Solar | 53 mm | 160 mm | 215 mm |
| 911401814803 | BVC010 LED30/765 Solar Pro | 53 mm | 160 mm | 215 mm |
| 911401816203 | BVC010 LED30/730 Solar Pro | 53 mm | 160 mm | 215 mm |
| 911401812403 | BVC010 LED6/765 Solar | 48 mm | 125 mm | 165 mm |
| 911401813803 | BVC010 LED6/730 Solar | 48 mm | 125 mm | 165 mm |
| 911401814503 | BVC010 LED6/765 Solar Pro | 48 mm | 125 mm | 165 mm |
| 911401815903 | BVC010 LED6/730 Solar Pro | 48 mm | 125 mm | 165 mm |
| 911401813003 | BVC010 LED60/765 Solar | 60 mm | 245 mm | 345 mm |
| 911401814403 | BVC010 LED60/730 Solar | 60 mm | 245 mm | 345 mm |
| 911401815103 | BVC010 LED60/765 Solar Pro | 60 mm | 245 mm | 345 mm |
| 911401816503 | BVC010 LED60/730 Solar Pro | 60 mm | 245 mm | 345 mm |

# Solar Flood light

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