

SmartBright Solar All-in-one Street Light 一体太阳能路灯

BRP110 G2 Mounting Instruction 安装说明

| Type Number<br>型号         | Flux(lm)<br>灯具亮度 | Battery parameter<br>电池规格 | PV parameter<br>太阳能板规格 | CCT<br>色温 | Kg<br>重量 | Ta<br>使用环境温度 |
|---------------------------|------------------|---------------------------|------------------------|-----------|----------|--------------|
| BRP110 LED50/757G2 (Pro)  | 5000lm           | LiFePO4/ 60Ah/3.2V        | 35W/12V                | 5700K     | 8.7kg    | 0~50℃        |
| BRP110 LED85/757G2 (Pro)  | 8500lm           | LiFePO4/ 54Ah/6.4V        | 55W/14V                | 5700K     | 11.6kg   | 0~50℃        |
| BRP110 LED120/757G2 (Pro) | 12000lm          | LiFePO4/ 72Ah/6.4V        | 80W/13V                | 5700K     | 15.8kg   | 0~50℃        |
| BRP110 LED180/757G2 (Pro) | 18000lm          | LiFePO4/ 30Ah/25.6V       | 125W/34.5V             | 5700K     | 28.1kg   | 0~50℃        |

Lighting Mode 亮灯模式

| Work time<br>工作时间 | Motion detected<br>有人感应功率（百分比） | Not detected<br>无人感应功率（百分比） |
|-------------------|--------------------------------|-----------------------------|
| 2h                | 100%                           | 30%                         |
| 3h                | 60%                            | 20%                         |
| 6h                | 30%                            | 10%                         |
| 1h                | 50%                            | 30%                         |



Please note: The product is with smart power-saving system, where the lighting output gradually dims down along with the battery level decreases.  
注:系统为节电模式,随着电池电量的减少,灯光逐渐变暗

Dimension 尺寸

| Type    | W(mm) | L(mm) | H(mm) |
|---------|-------|-------|-------|
| 5000lm  | 363   | 562   | 85    |
| 8500lm  | 363   | 842   | 85    |
| 12000lm | 363   | 1142  | 85    |
| 18000lm | 525   | 1321  | 161   |

Luminaire Architecture 灯具结构

5000lm 6颗 6pcs  
8500lm 8颗 8pcs  
12000lm 8颗 8pcs  
18000lm 不需要,灯臂已经安装在灯臂上  
(No need, mounting kit already installed in the luminaire fixture.)

| No | Name 部件名称            | Description 说明                                       |
|----|----------------------|------------------------------------------------------|
| ①  | Solar panel 太阳能板     | Convert solar energy into electricity<br>吸收和转换太阳能为电能 |
| ②  | LED source 光源        | Luminous component 发光部分                              |
| ③  | Microwave sensor 感应器 | Detecting object moment 监测物体移动                       |
| ④  | Light arm 灯臂         | Fix the luminaire 固定灯体                               |
| ⑤  | Screws(M6x16mm) 螺丝   | Fix the light arm 固定灯臂                               |
| ⑥  | Safety rope 安全绳      | Prevent the luminaire fixture falling off<br>防止灯具坠落  |

产品中有害物质的名称及含有信息表

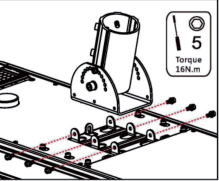
| 部件名称                  | 有害物质 |    |    |        |     |      |      |     |     |      |
|-----------------------|------|----|----|--------|-----|------|------|-----|-----|------|
|                       | Pb   | Hg | Cd | Cr(VI) | PBB | PBDE | DEHP | BBP | DBP | DIBP |
| LED灯板/光源              | ○    | ○  | ○  | ○      | ○   | ○    | ○    | ○   | ○   | ○    |
| LED控制装置, 铜制及电子零<br>部件 | ×    | ○  | ○  | ○      | ○   | ○    | ○    | ○   | ○   | ○    |
| 外壳, 灯罩及光学部件           | ○    | ○  | ○  | ○      | ○   | ○    | ○    | ○   | ○   | ○    |

注1: ○ : 表示该有害物质在该部件所有均质材料中的含量均不超出电器电子产品有害物质限制使用国家标准要求。  
表示该有害物质至少在该部件的某一均质材料中的含量超出电器电子产品有害物质限制使用国家标准要求。  
注2: × : 以上未列出的部件, 表明其有害物质含量均不超出电器电子产品有害物质限制使用国家标准要求。

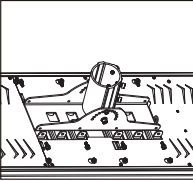
Installation 安装说明

Note: Luminaire is in sleep mode as factory default setting. It will wake up automatically after 10seconds charging under sunlight without shade. After wake up, it will light on around 5~10seconds to indicate wake-up successfully, and then turn off automatically back to normal working status.

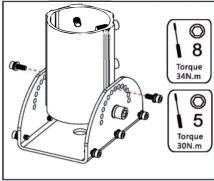
注意:灯具出厂设置为休眠模式, 在阳光下充电10S后自动唤醒。唤醒后, 5-10S左右亮灯, 表示唤醒成功, 然后关闭, 恢复正常工作。



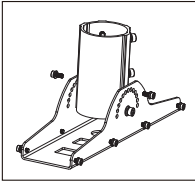
1.The arm kit for 5000lm and 8500lm version.  
5000lm & 8500lm 灯臂安装



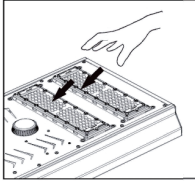
2.The arm kit for 12000lm version.  
12000lm 灯臂安装



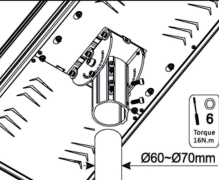
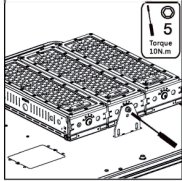
3.A adjust PV tilt angle: unscrew screws, adjust angle-90° ~ +90°, then screw up screws.  
调整PV倾斜角度:松开螺丝,调整角度-90°~+90° 然后拧紧螺丝



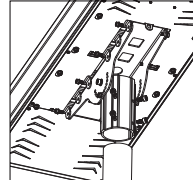
4a. Adjust LED light angle: -20°~+20°  
5000lm, 8500lm, 12000lm  
调节LED发光角度:-20°~+20° (5000lm、8500lm、12000lm款)



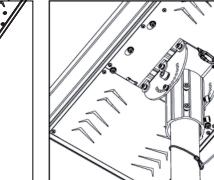
4b.Adjust LED light angle (±8°)  
18000lm.  
调节LED发光角度(±8°)18000lm 款。



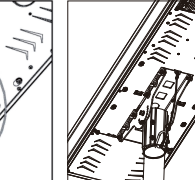
5.Install the luminaire on the pole for 5000lm and 8500lm version.  
5000lm &8500lm 灯具装在灯臂上



6.Install the luminaire on the pole for 12000lm version.  
12000lm 灯具装在灯臂上



7a. Installation with safety rope:  
5000lm, 8500lm, 12000lm.  
带安全绳安装:5000lm、8500lm、12000lm款。

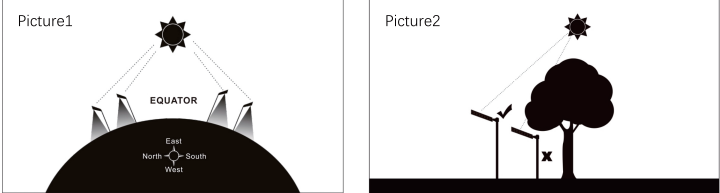


7b. Installation with safety rope:  
18000lm  
带安全绳安装:18000lm款

Application notes 安装注意事项

1. Solar panel orientation, solar panel should face south in north hemisphere, face north in south hemisphere. (Picture 1)

太阳能电池板的朝向, 太阳能电池板在北半球应朝南, 在南半球应朝北。(如图1)



2. Install in a sunny place that is not shaded by trees, building, walls etc. So that the solar panel receive maximum sunlight for charging the battery. (Picture 2)

安装在阳光充足的地方, 不要被树木、建筑物、墙壁等遮挡。这样太阳能电池板就能接收到最大的阳光来给电池充电。(如图2)

3. Charge temperature: 0~45°C; Discharge temperature: -10~60°C.

充电温度:0~45°C;放电温度:-10~60°C。

4. This product can withstand a class 14 typhoon, and storms above class 14 may damage the product. 本产品可抵御14级台风, 14级以上的风暴可能对产品造成损坏。 This product claiming 500hours of neutral salt spray that is not suitable for areas less than 10kilometers away from the coast. 本产品宣称500小时中性盐雾, 不适合用于距离海岸小于10公里的地区。

5. Light will gradually dim down along with battery capacity lower. 随着电池容量的降低, 光线会逐渐变暗。

6. The product contains Lithium Ferro Phosphate battery. It is important to note that if the product is not used (charged) within xx months from the date of manufacturing (as in the product, package label) the battery will be in the state of over discharged condition due to its self-discharge properties and the product is not likely to switch on and performance of the product will be affected, such as but not limited to reduced lumen output, faster dimming, shorter light ON time etc. To ensure battery performance, do not exceed the storage time as defined below:

- up to 11 months (0~25°C, ≤75%RH)
- up to 6 months (0~35°C, ≤75%RH)
- up to 3 months (0~45°C, ≤75%RH)

In case the storage condition and timeline not complied, the warranty of the product shall be void. For detailed warranty terms and conditions please reach out to the authorized Signify representative/partner

该灯具产品中包含磷酸铁锂电池。需要注意的是, 如果产品自制造之日起xx个月内未使用(如产品、包装标签中所示), 由于其自放电特性, 电池将处于过度放电状态, 产品性能将受到影响, 例如: 但不限于流明输出降低、亮灯时间变短等。

为了确保电池性能, 电池存储时间不要超过以下条件:

- 最长 11 个月 (0~25°C, ≤75%RH)
- 最长6个月 (0~35°C, ≤75%RH)
- 最长3个月 (0~45°C, ≤75%RH)

如果不遵守储存条件和时间表, 产品的保修将失效。有关详细的保修条款和条件, 请联系 Signify授权代表/合作伙伴。

7. Sensor indicator light status description. 传感器指示灯状态描述

| Indicator light<br>指示灯 | State of Indicator Light<br>指示灯状态 | Description of Indicator Light<br>指示内容 | State of Remote Controller System<br>遥控器系统状态                                                                                            |
|------------------------|-----------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Red<br>红色              | Normally on 常亮                    | Normal system 系统正常                     | Idle/discharge 空闲/放电                                                                                                                    |
|                        | Slow flash 慢闪                     | Charging 充电                            | Charge 充电                                                                                                                               |
|                        | Fast flash 快闪                     | System fault 系统故障                      | Short circuit/Battery over discharge/ PV over temperature/ Battery over temperature/ BMS over temperature<br>短路/电池过放/光伏板过温/电池过温/电池保护板过温 |

8. This luminaire does not equip with remote controller, if user need it, please order it separately 本灯具不带遥控器, 如用户需要, 请另行订购。

|                |                                        |
|----------------|----------------------------------------|
| 12NC           | Product Description 产品描述               |
| 9114 018 45002 | ZRP110 G2 config.remote controller 遥控器 |

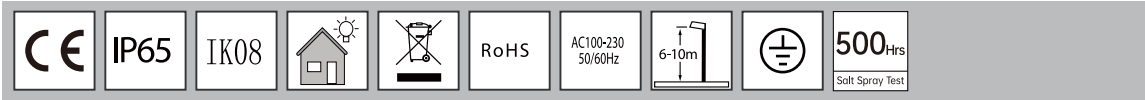


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SmartBright Hybrid Solar All-in-one Street Light  
Mounting instruction / 安装说明-市电互补太阳能路灯



| Product Type                  | Flux (lm) | CCT (K) | Battery            | PV         | AC input power (W) | AC input voltage/frequency | LEDs (PCS) | energy efficiency class of light source | CLASS | Weight (kg) | Wind force area m <sup>2</sup> | Ta °C |
|-------------------------------|-----------|---------|--------------------|------------|--------------------|----------------------------|------------|-----------------------------------------|-------|-------------|--------------------------------|-------|
| BRP110 LED50/730 G2 HY Solar  | 5000      | 3000    | LiFePO4/12Ah/12.8V | 35W/18V    | 35                 | 100-230V 50/60Hz           | 84         | C                                       | I     | 7.8         | 0.205                          | 0-50  |
| BRP110 LED50/740 G2 HY Solar  | 5000      | 4000    |                    |            |                    |                            |            | B                                       |       |             |                                |       |
| BRP110 LED50/757 G2 HY Solar  | 5000      | 5700    |                    |            |                    |                            |            | B                                       |       |             |                                |       |
| BRP110 LED85/730 G2 HY Solar  | 8500      | 3000    | LiFePO4/18Ah/12.8V | 55W/18V    | 53                 |                            | 168        | C                                       |       | 10.2        | 0.306                          |       |
| BRP110 LED85/740 G2 HY Solar  | 8500      | 4000    |                    |            |                    |                            |            | B                                       |       |             |                                |       |
| BRP110 LED85/757 G2 HY Solar  | 8500      | 5700    |                    |            |                    |                            |            | B                                       |       |             |                                |       |
| BRP110 LED120/730 G2 HY Solar | 12000     | 3000    | LiFePO4/24Ah/12.8V | 80W/18V    | 81                 |                            | 168        | C                                       |       | 16          | 0.416                          |       |
| BRP110 LED120/740 G2 HY Solar | 12000     | 4000    |                    |            |                    |                            |            | B                                       |       |             |                                |       |
| BRP110 LED120/757 G2 HY Solar | 12000     | 5700    |                    |            |                    |                            |            | B                                       |       |             |                                |       |
| BRP110 LED180/730 G2 HY Solar | 18000     | 3000    | LiFePO4/24Ah/25.6V | 125W/34.5V | 108                |                            | 288        | C                                       |       | 28.5        | 0.693                          |       |
| BRP110 LED180/740 G2 HY Solar | 18000     | 4000    |                    |            |                    |                            |            | B                                       |       |             |                                |       |
| BRP110 LED180/757 G2 HY Solar | 18000     | 5700    |                    |            |                    |                            |            | B                                       |       |             |                                |       |

The product surge rating is 4KV L-L/6KV L-N, if users need higher surge protection level, external surge protection device needs to be connected in AC input wires.  
产品浪涌额定值为4KVL-L/6KVL-N, 如果用户需要更高的浪涌保护等级, 则需要在ac输入线中连接外部浪涌保护装置。

| Product Type                  | Start(Inrush Current(A)/Ipeak<br>开始(侵入) 电流(A) /Ipeak | Start Current Duration(μs)/ π(@50% of Ipeak)<br>启动电流 持续时间(μs)/ π (@峰值的50%) | Maximum Number of Luminaire on MCB 16A Type B<br>B型MCB16A上灯具 的最大数量 | Maximum Number of Luminaire on MCB 16A Type C<br>C型MCB16A上 的灯具最大数量 | Driver Qty<br>驱动器数量 |
|-------------------------------|------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|---------------------|
| BRP110 LED50/730 G2 HY Solar  | 33.8                                                 | 380                                                                        | 8                                                                  | 12                                                                 | 1                   |
| BRP110 LED50/740 G2 HY Solar  | 33.8                                                 | 380                                                                        | 8                                                                  | 12                                                                 | 1                   |
| BRP110 LED50/757 G2 HY Solar  | 33.8                                                 | 380                                                                        | 8                                                                  | 12                                                                 | 1                   |
| BRP110 LED85/730 G2 HY Solar  | 33.8                                                 | 380                                                                        | 8                                                                  | 12                                                                 | 1                   |
| BRP110 LED85/740 G2 HY Solar  | 33.8                                                 | 380                                                                        | 8                                                                  | 12                                                                 | 1                   |
| BRP110 LED85/757 G2 HY Solar  | 33.8                                                 | 380                                                                        | 8                                                                  | 12                                                                 | 1                   |
| BRP110 LED120/730 G2 HY Solar | 33.8                                                 | 380                                                                        | 8                                                                  | 12                                                                 | 1                   |
| BRP110 LED120/740 G2 HY Solar | 33.8                                                 | 380                                                                        | 8                                                                  | 12                                                                 | 1                   |
| BRP110 LED120/757 G2 HY Solar | 33.8                                                 | 380                                                                        | 8                                                                  | 12                                                                 | 1                   |
| BRP110 LED180/730 G2 HY Solar | 30.6                                                 | 262                                                                        | 4                                                                  | 8                                                                  | 1                   |
| BRP110 LED180/740 G2 HY Solar | 30.6                                                 | 262                                                                        | 4                                                                  | 8                                                                  | 1                   |
| BRP110 LED180/757 G2 HY Solar | 30.6                                                 | 262                                                                        | 4                                                                  | 8                                                                  | 1                   |

Lighting Mode (Default Mode) 照明模式 (默认模式)

| Work time<br>工作时间 | Motion detected<br>运动检测时 | Not detected<br>无运动检测时 |
|-------------------|--------------------------|------------------------|
| 2h                | 100%                     | 30%                    |
| 3h                | 60%                      | 20%                    |
| 6h                | 30%                      | 10%                    |
| 1h                | 50%                      | 30%                    |



Note:The lamp with light control and dimming function,will automatically turn on when sunset.  
注:该灯具有光控和调光功能, 日落时自动开启。

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邮编: 200233



Dimension 灯具尺寸

|  | Model   | L(mm) | W(mm) | H(mm) |
|--|---------|-------|-------|-------|
|  | 5000lm  | 562   | 364   | 86    |
|  | 8500lm  | 842   | 364   | 86    |
|  | 12000lm | 1142  | 364   | 364   |
|  | 18000lm | 1320  | 525   | 160   |

Luminaire Architecture 灯具结构

|  | No | Name<br>名称                 | Description<br>描述                                        |
|--|----|----------------------------|----------------------------------------------------------|
|  | ①  | Solar panel<br>太阳能电池板      | Converting solar energy into electricity<br>将太阳能转化为电能    |
|  | ②  | LED source<br>LED光源        | Luminous component<br>发光组件                               |
|  | ③  | Microwave sensor.<br>微波传感器 | Detecting object moment<br>运动检测传感器                       |
|  | ④  | Light arm<br>灯臂            | Fix the solar lamp(except 18000lm)<br>固定太阳能灯(除了18000lm款) |
|  | ⑤  | Screws<br>螺丝               | Fix the lamp arm(except 18000lm)<br>固定灯臂(除了18000lm款)     |
|  | ⑥  | Safety rope<br>安全绳         | Prevent lamps from falling<br>防止灯具掉落                     |
|  | ⑦  | AC driver cable<br>交流驱动器电缆 | cable for AC driver<br>交流驱动器电缆                           |

Installation 安装

Note: Luminaire is in sleep mode as factory default setting, it will wake up automatically after 10S charge under sunlight. After wake up, it will light on around 5-10S to indicate wake up successfully, and then turn off back to normal working.  
注: 灯具休眠模式为出厂默认设置, 在阳光下充电10S后自动唤醒, 唤醒后 5-10S左右亮灯, 表示唤醒成功, 然后关闭, 恢复至正常工作模式。

|                                                                    |                                                          |                                                                                          |                                                                    |                                              |
|--------------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------|
|                                                                    |                                                          |                                                                                          |                                                                    |                                              |
| 1.The arm kit for 5000lm and 8500lm version.                       | 2.The arm kit for 12000lm version.                       | 3.A adjust PV tilt angle: unscrew screws, adjust angle-90° ~ +90°, then screw up screws. | 4a. Adjust LED light angle: -20° ~ +20°<br>5000lm, 8500lm, 12000lm | 4b. Adjust LED light angle (±8°)<br>18000lm. |
|                                                                    |                                                          |                                                                                          |                                                                    |                                              |
| 5.Install the luminaire on the pole for 5000lm and 8500lm version. | 6.Install the luminaire on the pole for 12000lm version. | 7a. Installation with safety rope: 5000lm, 8500lm, 12000lm.                              | 7b. Installation with safety rope: 18000lm                         |                                              |

Connect the power cable 连接电源线

- This product do not provide with junction box/ connector (产品不含防水接线盒)
- Please use IP66 or higher IP grade junction box / connector for wiring (请使用 IP66 或更高 IP 等级的接线盒/连接器进行连接电源线)



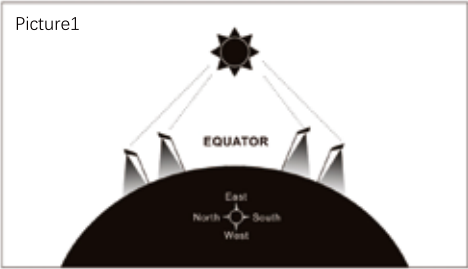
The wiring terminals meet the standards of IEC60998-2-1/IEC60998-2-2  
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邮编：200233

H05rn-f 3x1.0mm2  
60245IEC57  
Lamp outside cable length cable: ≥400mm  
N: Blue  
L: Brown  
GND:Yellow-Green



Application notes 应用须知

1.Solar panel orientation, solar panel should face south in north hemisphere, face north in south hemisphere. (Picture1)  
太阳能板朝向,太阳能板在北半球朝南,在南半球朝向北。(图片)



2. Install in a sunny place that is not shaded by trees, building, walls etc. So that the solar panel receive maximum sunlight for charging the battery. (Picture 2) 安装在阳光充足的地方,不要被树木、建筑物、墙壁遮挡。这样太阳能电池板就能接收到最大的阳光来给电池充电。(照片2)

3.Charge temperature: 0~50°C; Discharge temperature: -10~60°C 充电温度:0~50°C;放电温度:-10~60°C

4. This product can withstand a class 14 typhoon, and storms above class 14 may damage to the product. 本产品可承受14级台风,14级以上的风暴可能损坏本产品  
This product claiming 500hours of neutral salt spray that is not suitable for areas less than 10kilometers away from the coast.  
本产品宣称500小时中性盐雾,不适合用于距离海岸小于10公里的地区。

5. Light will gradually dim down along with battery capacity lower. 随着电池容量的降低,光线会逐渐变暗。

6.The product contains Lithium Ferro Phosphate battery. It is important to note that if the product is not used (charged) within XX months from the date of manufacturing (as in the product, package label) the battery will be in the state of over discharged condition due to its self-discharge properties and the rter product is not likely to switch on and performance of the product will be affected, such as but not limited to reduced lumen output, faster dimming, sho light ON time etc. 本产品含有磷酸铁锂电池。需要非常重要的注意,如果产品在生产日期(见产品标签/包装标签上)后的XX个月内未使用(未充电),由于其自放电特性,电池将处于过放电状态,产品可能无法工作或产品性能受到影响,例如,但不限于流明输出减少,变暗更快,更短的亮灯时间等等。

To ensure battery performance, do not exceed the storage time as defined below:  
为确保电池性能,请勿超过下面定义的存储时间:  
- up to 11 months (0~25°C, ≤75%RH)  
- up to 6 months (0~35°C, ≤75%RH)  
- up to 3 months (0~45°C, ≤75%RH)  
~11个月(0~25°C, ≤75%RH)  
~ 6 个月(0~35°C, ≤75%RH)  
~ 3 个月(0~45°C, ≤75%RH)

In case the storage condition and timeline not complied, the warranty of the product shall be void. For detailed warranty terms and conditions please reach out to the authorized Signify representative/partner  
如不符合存储条件和时间,产品的保修无效。有关详细的保修条款和条件,请与授权的昕诺飞代表/合作伙伴联系

7.AC power supply description: In normal cases, the battery is in priority discharged to turn on the led board. When the battery capacity drops to 5%-8% (typical value), it will be switched to AC power supply to keep the lighting on.  
交流电源说明:正常情况下,电池优先放电给LED光源供电,但当电池容量下降到5%-8%(典型值)时,切换到交流电源,保持照明。

| Indicator light<br>指示灯 | State of Indicator Light<br>指示灯状态 | Description of Indicator Light<br>指示灯描述 | State of Remote Controller System<br>遥控器状态                                                                                     |
|------------------------|-----------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Red<br>红灯              | Normally on<br>常亮                 | Normal system<br>正常状态                   | Idle/discharge<br>空闲/非充电                                                                                                       |
|                        | Slow flash<br>慢闪                  | Charging<br>充电中                         | Charge<br>充电                                                                                                                   |
|                        | Fast flash<br>快闪                  | System failure<br>系统故障                  | Short circuit/over-discharge/<br>PV over-temperature/ BV over-temperature/<br>EBMS/ over-temperature<br>短路/过放/PV过温/BV过温/EBMS过温 |

8.This luminaire does not equip with remote controller, if user need it, please order it separately.

本灯具不带遥控器,如用户需要,请另行订购。

| 12NC           | Product Description                              |
|----------------|--------------------------------------------------|
| 9114 018 45002 | ZRP110 G2 config.remote controller ZRP110 G2 遥控器 |



Please read this manual carefully before using the product. 使用本产品前请仔细阅读本说明书。

1. Do not switch on before complete installation. 完成安装之前不要开机。

2. The luminaire shall be installed by a qualified electrician and wired in accordance with the latest IEE electrical regulations or the national requirements. 灯具应由合格的电工安装,并按照最新的IEE电气规定或国家要求进行布线。

3. The light source and/ or control gear and/ or the external flexible cable contained in this luminaire shall only be replaced by the manufacturer or his service agent or similar qualified person.  
本灯具中包含的光源和/或控制装置和/或外部软电缆只能由制造商或其服务代理或类似的合格人员更换。

4.Ensure power supply cables(L-N/L-N-E)are connected correctly before switching on. 开机前,请确保电源线(L-N/L-N-E)已正确连接。

5. The luminare is complied with IEC60598. 符合 IEC60598。

6. Luminare must not be used or stored in corrosive environment where hazzardous materials such as Sulphur, Chlorine, phthalates, etc, are present. 不得存在硫、氯、邻苯二甲酸盐等有害物质的腐蚀性环境中使用或储存发光材料。

7.Please inform yourself about the local waste disposal, separation and collection system for electrical and electronic products and packaging. Please act according to your local rules and do not dispose your old product and packaging with your normal household waste. The correct disposal of the packaging, your product and/or batteries will help prevent potential negative consequences for the environment and human health. Batteries should be disposed separately from the municipal waste stream via designated collection facilities. When disposing a product that contains non-user replaceable batteries, the non-user replaceable batteries shall be removed by a professional. 请自行了解当地的电气和电子产品的废物处理、分类和收集系统以及包装。请根据当地法规行事,不要将旧产品和包装与普通生活垃圾一起丢弃。正确处理包装、您的产品和/或电池将有助于防止对环境 and 人类健康。电池应通过指定的收集设施与城市垃圾流分开处理。处理包含非用户可更换电池的的产品时,应由专业人员取出非用户可更换电池。

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