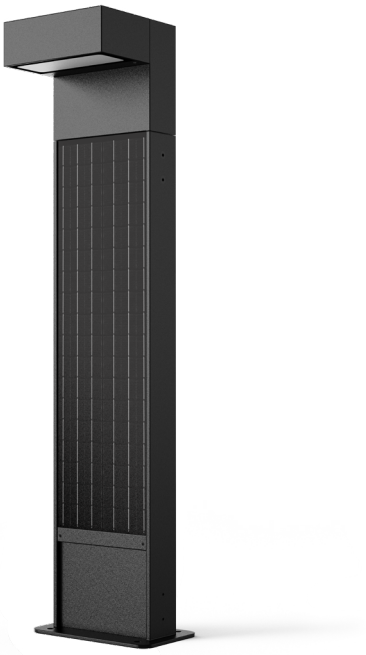
DIMON
TECHNOLOGY

Technical Datasheet

SOL Solar

Solar LED Bollard AC Hybrid Version

IK 08 IP66 DALI DALI 2



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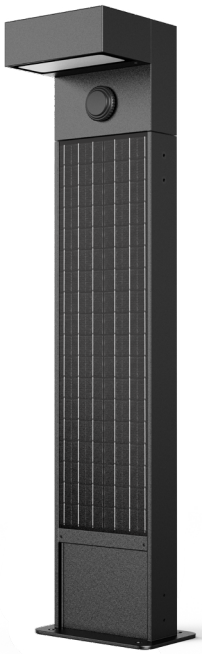

TYPE B



TYPE C

- All-in-one -Professional design to combine solar panel, light source, controller, battery as one.
- Die-cast aluminium,Surface anti-ageing electrostatic spray processing,super resistance to corrosion.
- Built-in the modular LiFePo4 battery
- Monocrystalline Solar Cell efficiency up to 22%
- Programmable MPPT for Timing dimming output to achieve energy-saving
- Mains Complementary Solar Controller : Charge over the power source from mains supply when solar energy is out of running
- Optional Microwave sensing control, saving energy efficiency
- Mounting kit with anchor bolts

SOL Solar

Solar LED Bollard AC Hybrid Version

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Technical Data

LED Rated Power	• 10W • 12W
Solar panel wattage(W) Solar panel voltage(V)	44W (2x 22W) 18V
Photovoltaic Cell Type Photovoltaic	Mono-Crystalline solar panel Up to Max.22%
Battery Type	LiFePO4 battery
Battery capacity(Wh) Battery lifetime Charge controller type	154Wh Battery ampere: 12Ah Battery voltage(V): 12.8V Battery lifetime> >2,000 cycles (D.OD. 80%) Programmable MPPT
Optional Intelligent mode	Microwave -Senosr intelligent control
AC Hybrid Version Input Voltage	220-240VAC/50-60HZ Power Factory : >0.9 THD <20% LED Driver efficiency up to 86%
Lighting Control	Integrated-type LED Driver--Refer to LED driver specification Consulte la especificación de controlador de LED 1. ON/OFF Switch AC220-240V 50/60HZ 2. 0/1 -10V Dimming Driver AC220-240V 50/60HZ 3. DALI Dimming Driver AC220-240V 50/60HZ
Charging time(hrs) Operating time(hrs)	3-4 Hours (By Bright Sunlight) *depend solar radiation Full Power on 8-9 hours, Intelligent Mircroeave mode:>3days
Dimming profile parameters (Factory Preset) By Solar -Lux Senosr system	First 3 hours from dusk: luminaire at 100% brightness Next 6 hours: luminaire at 30% brightness Next (until dawn): luminaire at 10% brightness
Color Temperature	3000K / 4000K / 5000K / 5700K
Color Rendering Index	> 80
Luminaire Efficiency	100 Lm/w(3000K) 110 Lm/w(4000K) 110 Lm/w(5000K) 110 Lm/w(5700K),
Light Distribution MacAdam Ellipses Binning	Symmetric Standard Deviation Colour Matching < 3 SDCM
Housing materials	Die-casting aluminium body and aluminium alloy stand with safety glass
Housing Color	Anti Corrosion Polyester powder Black RAL 9005; Grey RAL 9006; White RAL 9003; Dark Grey RAL 7043
Ingress Protection	IP66
Mech impact protection	IK08
Dimension / 尺寸 / Dimensión	Refer to drawing
Operating Temperature Range	30 °C / +50 °C
Certification	IK 08 IP66 DALI DALI 2

Beam Angle

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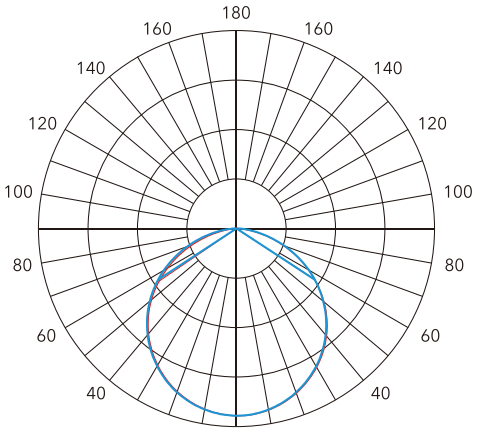
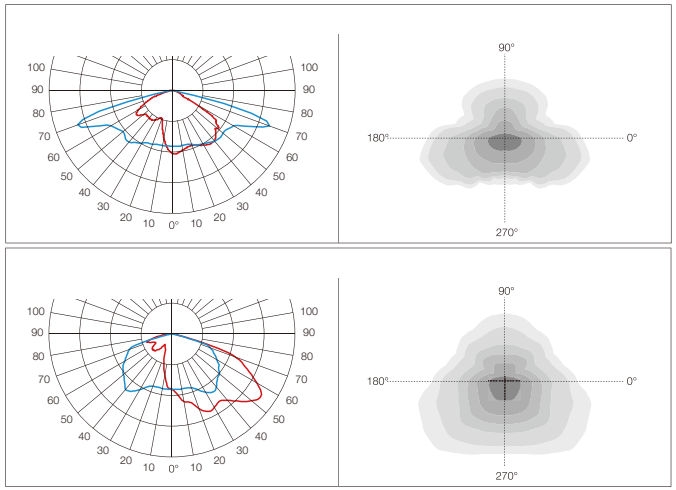
TYPE A





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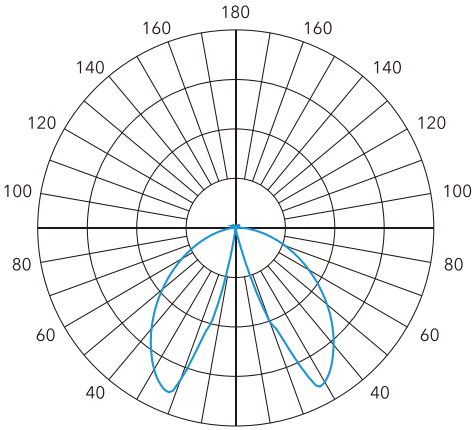

Technical Drawing

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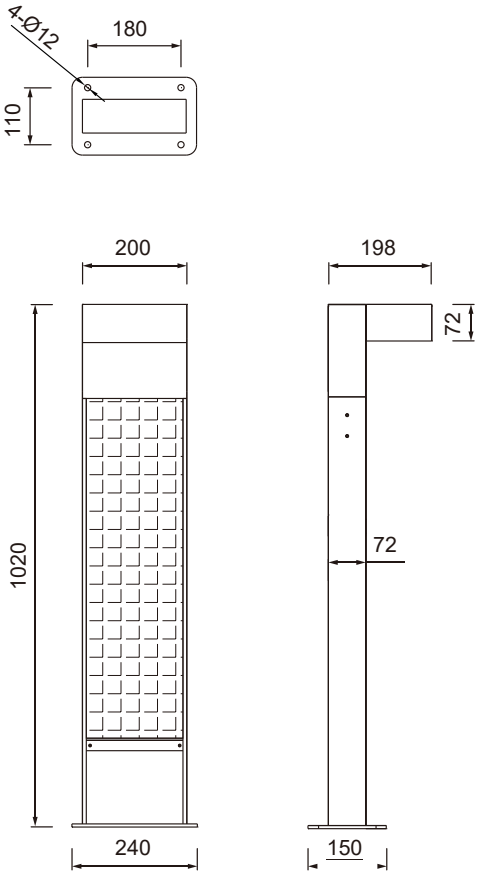

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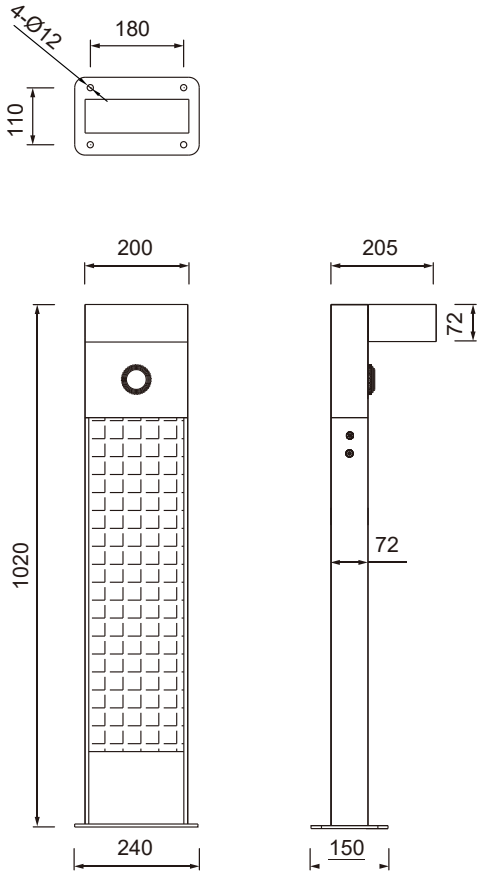

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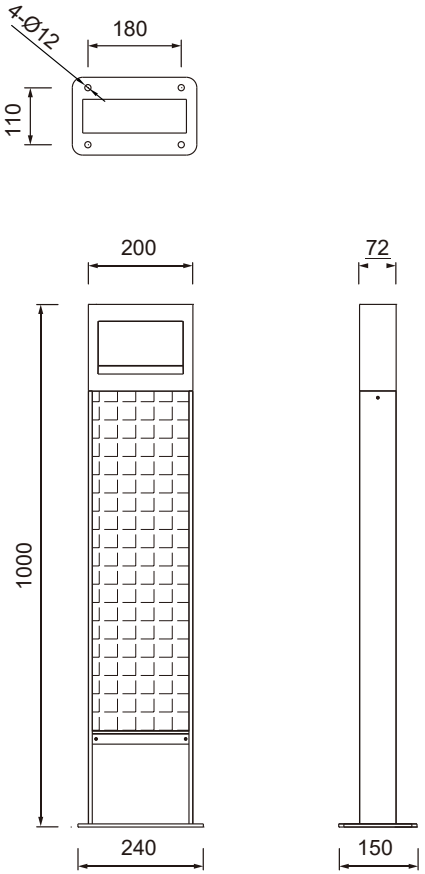

TYPE C

Unit:mm

Family Series

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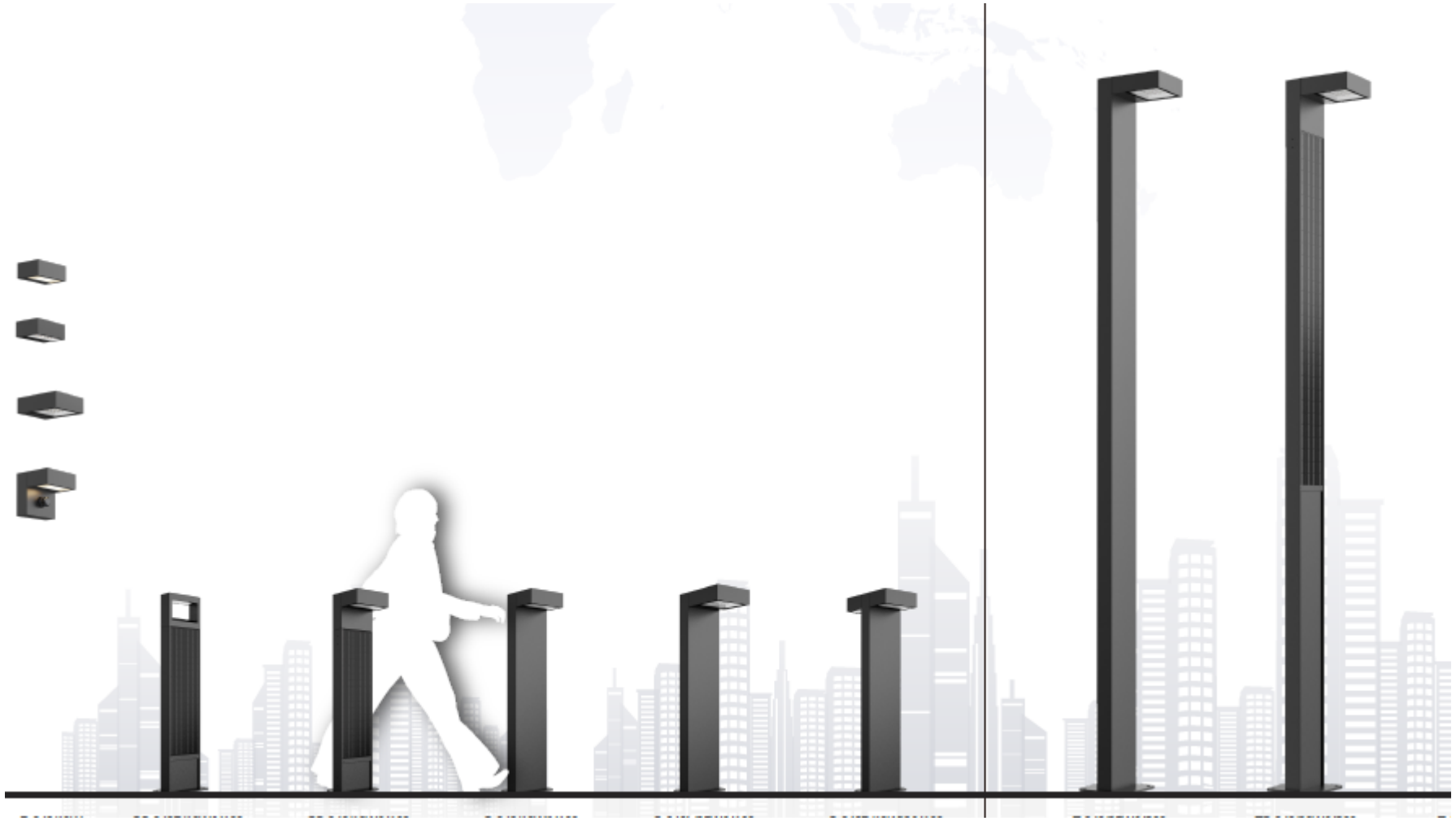

Solar Control Diagram
AC/DC Hybrid Solar Charge

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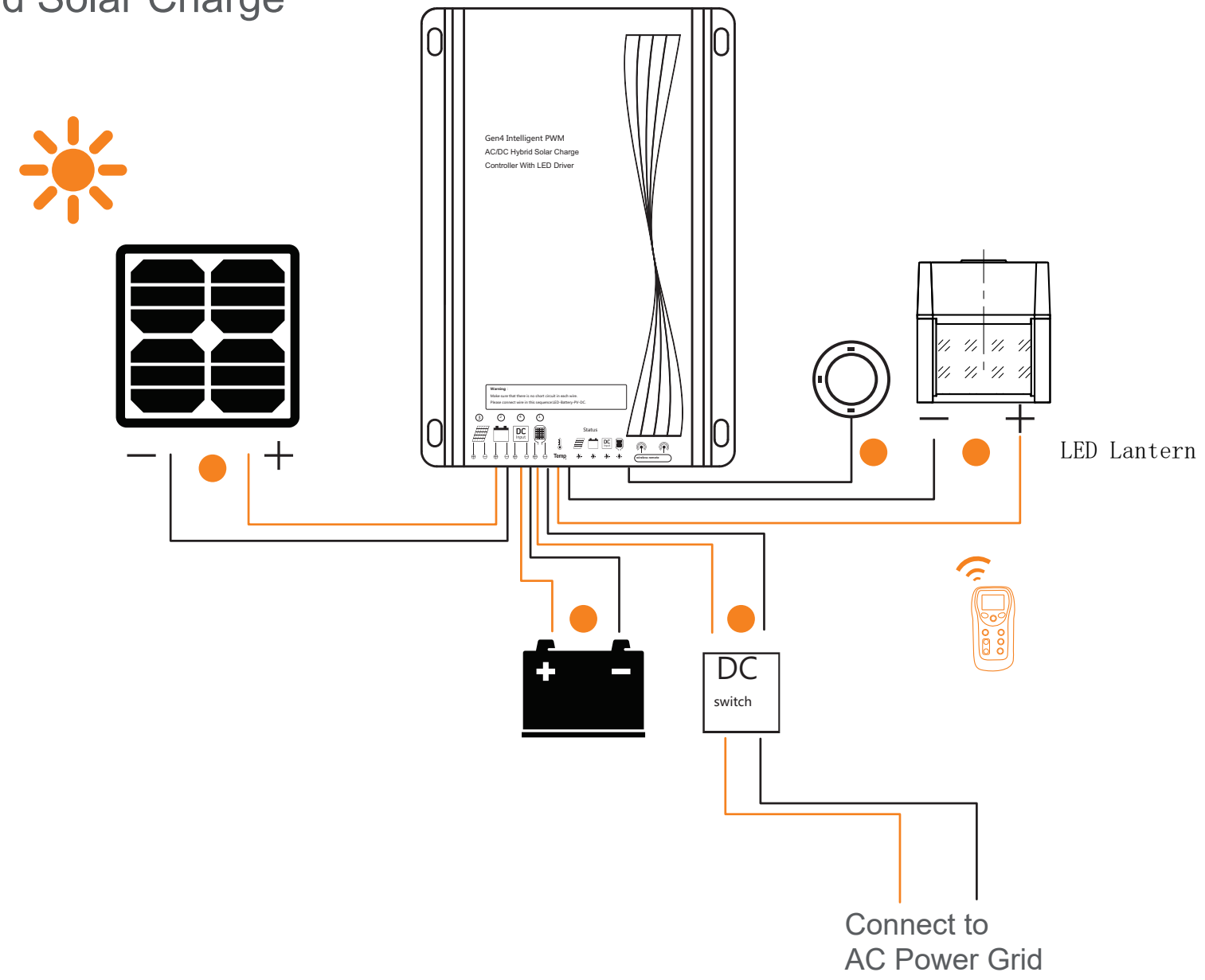
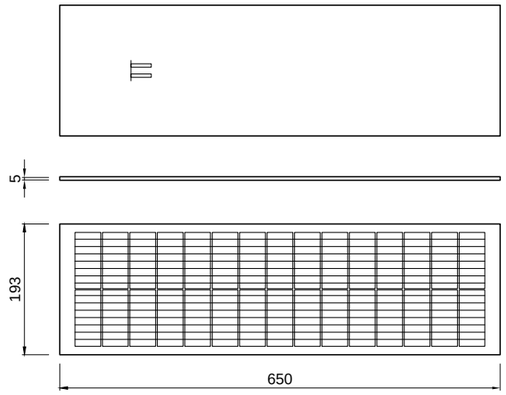


TYPE A



Solar panel size



18V22W Monocrystalline silicon
black base glass assembly

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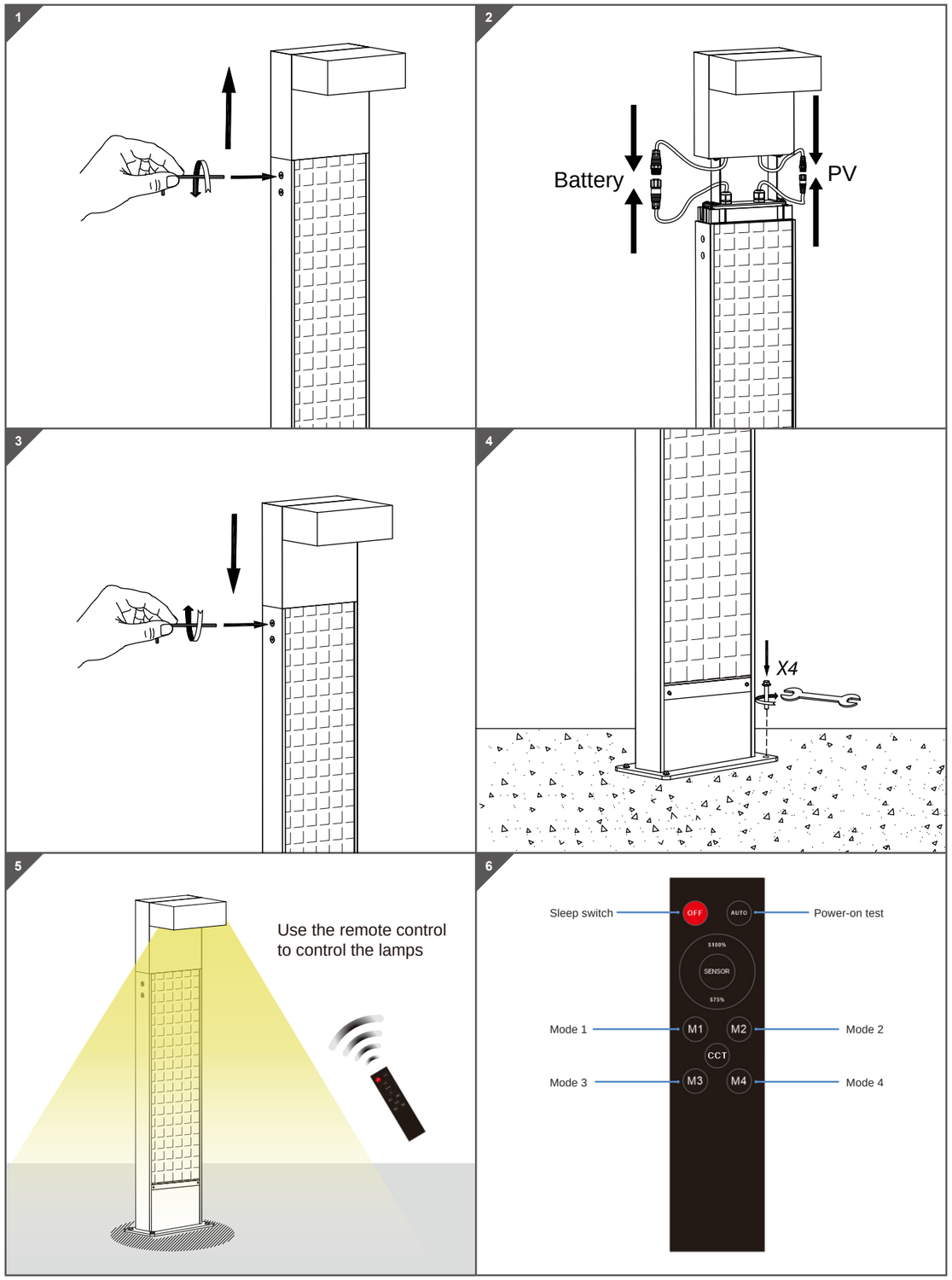
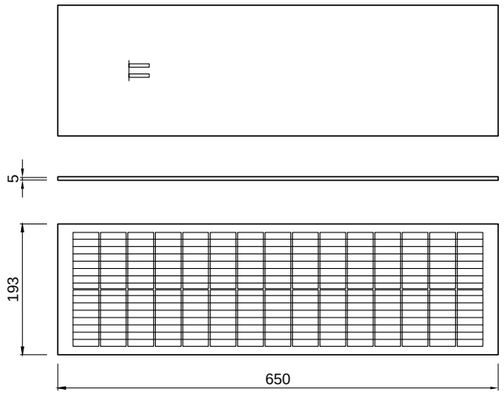
Installation instructions



TYPE B



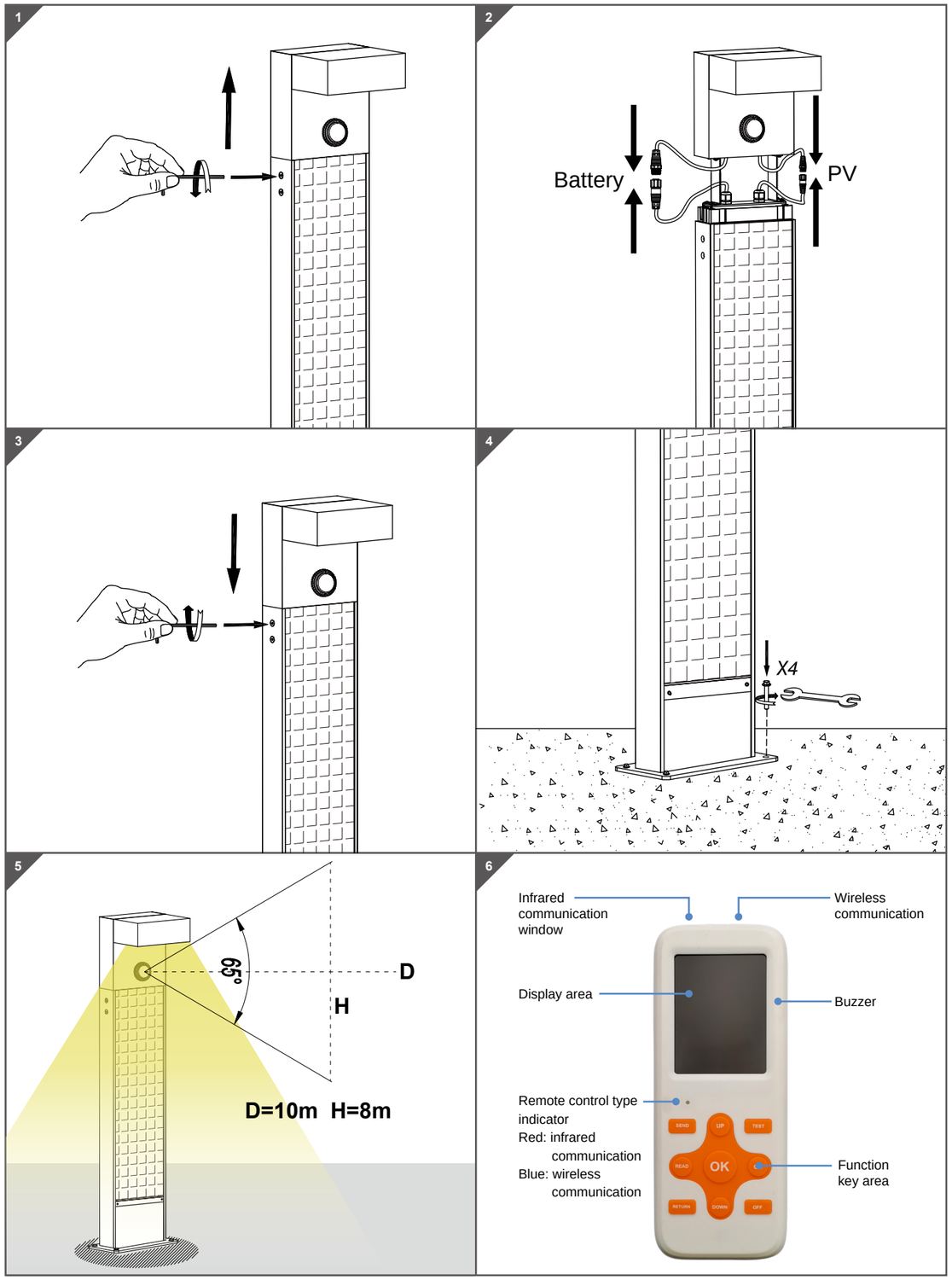
Solar panel size



18V22W Monocrystalline silicon
black base glass assembly

DIMON
TECHNOLOGY

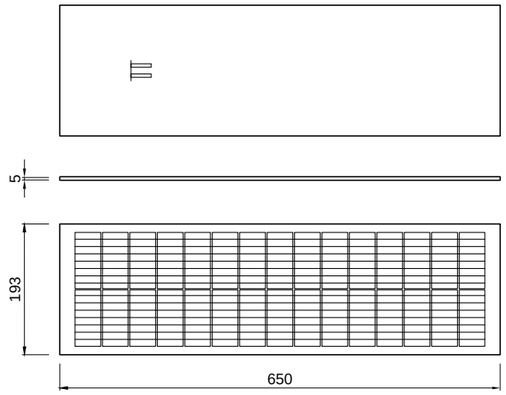
Installation instructions



TYPE C



Solar panel size



18V22W Monocrystalline silicon
black base glass assembly

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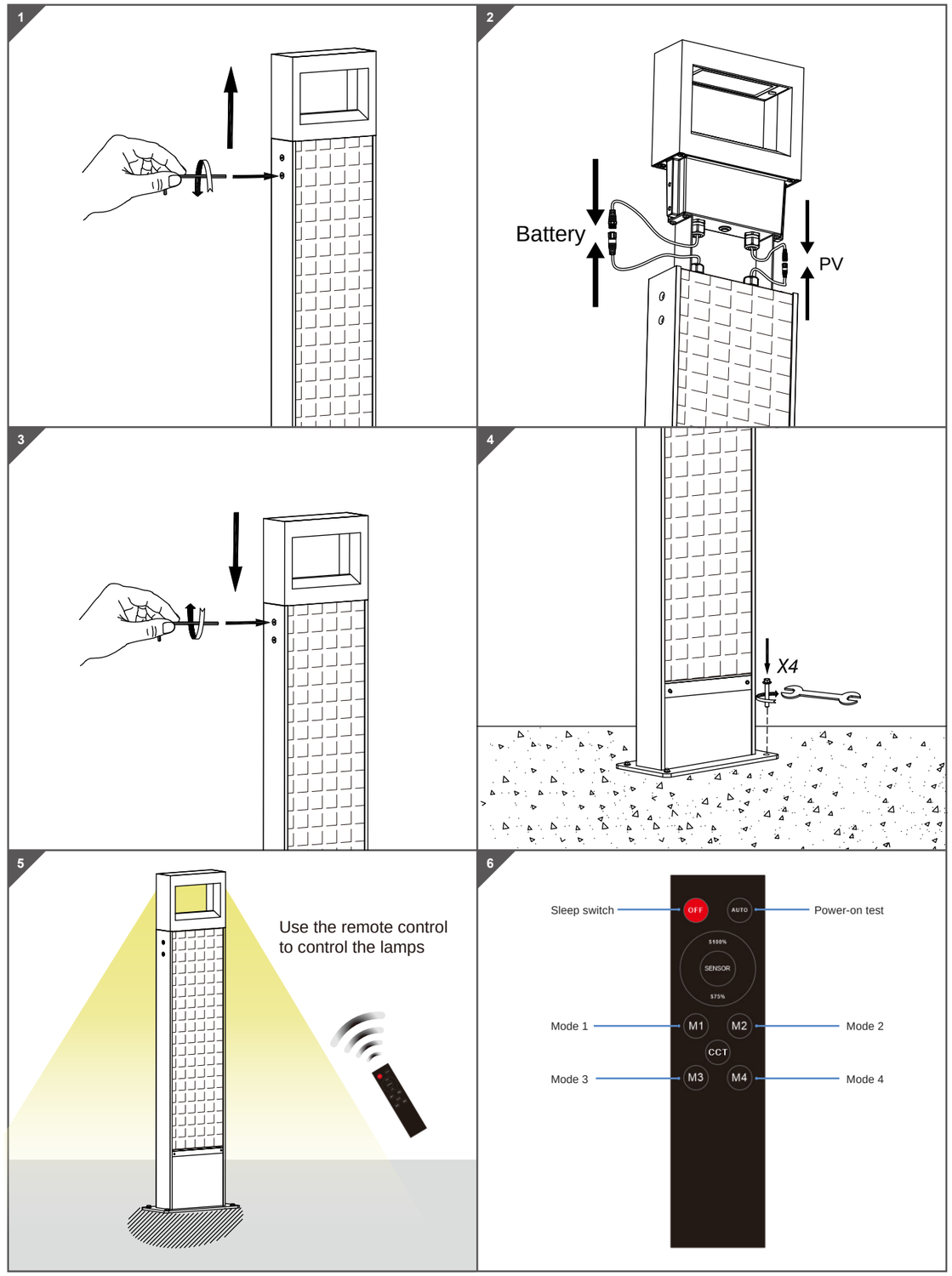
TECHNOLOGY

Installation instructions



Remote control unit



按键名称 Key name	执行功能 Short press		长按键功能 Long press	
UP	A、菜单上翻页 B、设置数据增加	A. Page up the menu B. Increase the setting data	A、菜单连续上翻页 B、调节数据按步长连续增加 C、与 DOWN 键同时按:进入【终端密码】界面	A. Page up the menu continuously B. Increase the data to be adjusted by increment continuously C. Press with the DOWN key simultaneously: enter into the [Term Key] interface
DOWN	A、菜单下翻页 B、设置数据减小	A. Page down the menu B. Decrease the setting data	A、菜单连续下翻页 B、调节数据按步长连续减小 C、与 UP 键同时按:进入【终端密码】界面	A. Page down the menu continuously B. Decrease the data to be adjusted by increment continuously C. Press with the UP key simultaneously: enter into the [Term Key] interface
OK	确认选择	Confirm your choices	—	
SEND	遥控器向控制器发送【负载参数】、【高级参数】界面中的所有值	The remote control sends all the values in the [Adv Para] and [Load	—	
READ	遥控器向控制器读取相应的参数/状态;如果当前主菜单为如下:【高级参数】或【负载参数】【实时状态】、【历史数据】，则读取控制器的相对应的内容。在【负载参数】或【高级参数】下读取的为【负载参数】和【高级参数】的所有内容)	The remote control reads the corresponding parameters/states to the controller; if the following parameters are displayed in the main menu: [Adv Para], [Load Set], [RunState], and [HistDate],the corresponding contents of the controller are read. (When the [Adv Para] or [Load Set] is displayed, all contents of the [Adv Para] and [Load Set] are read)	长按3S，遥控器将以每3S一次的间隔读取控制器数据。再次单击"READ"键即可取消连续读取	When it is pressed down for 3S, the remote control will read the controller data at an interval of every 3S.When the "READ" key is clicked again, the continuous reading will be cancelled
TEST	遥控器向控制器发送负载测试命令:100%、70%、50%、30%、0%	The remote control sends load test commands to the controller:100%, 70%, 50%, 30%, and 0%.	—	
ON	遥控器向控制器发送休眠唤醒命令。(对于某些控制器，即使该命令发送成功，遥控器也会显示发送失败)	The remote control sends the sleep wake-up command to the controller.(For some controllers, even if the command is sent successfully, the remote control will show that it failed to send.)	—	
OFF	遥控器向控制器发送休眠命令。(对于某些控制器，即使该命令发送成功，遥控器也会显示发送失败	The remote control sends the sleep command to the controller.(For some controllers, even if the command is sent successfully,the remote control will show that it failed to send.)	—	
RETURN	返回到主菜单/上一级菜单	Back to the main menu/previous menu	—	

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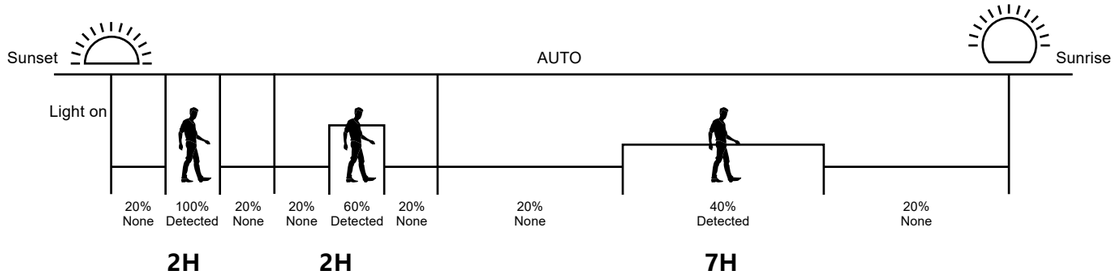
Night base mode



用户可以根据灯具配置和亮灯需求调整模式

Users can adjust the mode according to the lamp configuration and lighting needs

智能感应恒流一体机 Motion Sensor Controller&LED driver

- 高精度、高效脉宽调制恒压充电
- 极低的休眠电流，适合远程运输和存储
- 自带人体感应传感器（微波可选），感应延迟可设置
- 10时段可编程负载功率/时间控制

- High-precision and high-efficiency pulse width modulation constant voltage charging.
- Extremely low sleep current, suitable for long-distance transportation and storage.
- It is equipped with a human body sensor (microwave), and the sensing delay can be set.
- 10-period programmable load power/time control.

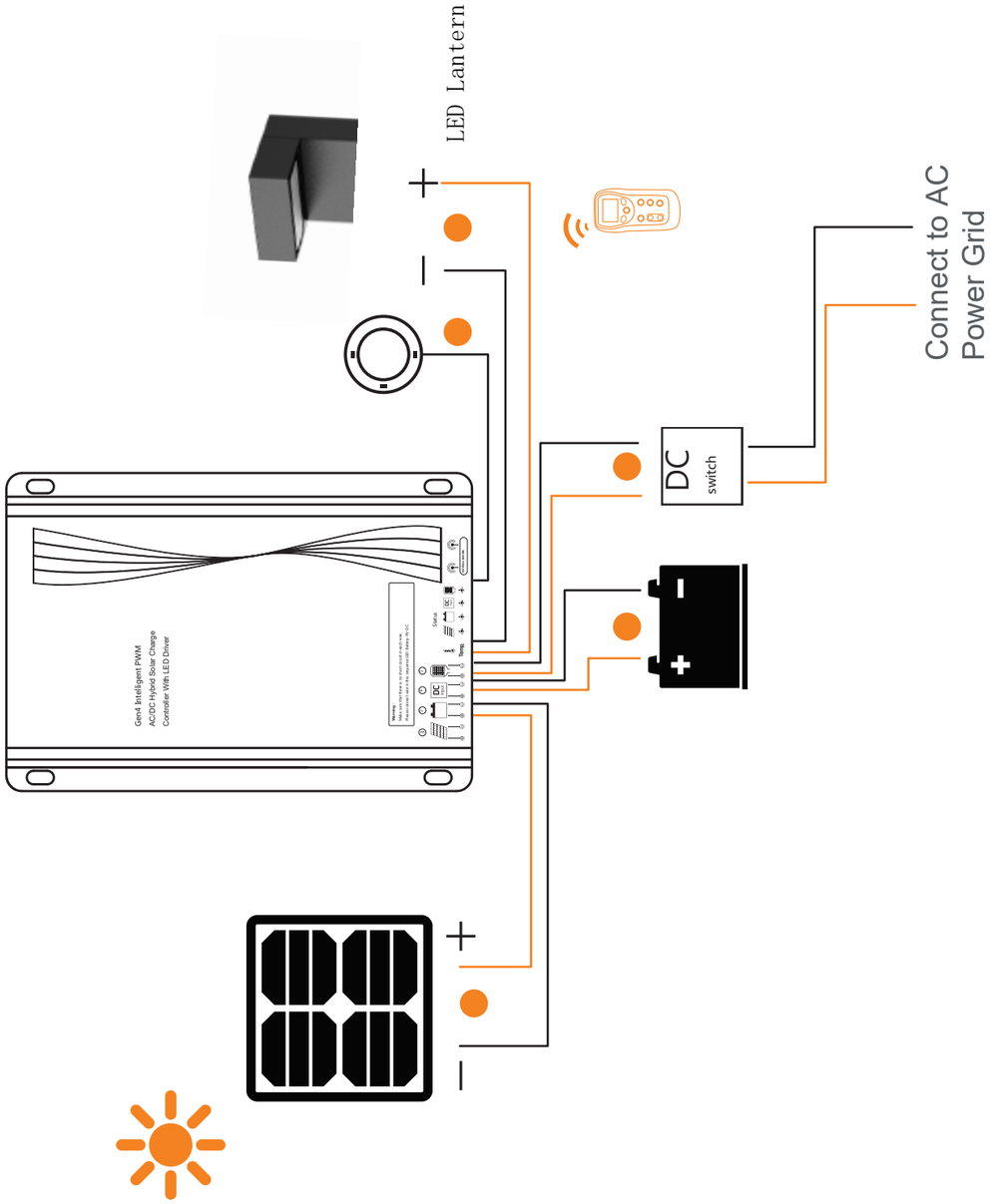


SES40-WB

WB(Microwave sensor)

名称 Item	SES40-WB	参数可调 Adjustable	默认值 Default
遥控类型 Remote control type	微波感应/Microwave sensing		
空载损耗 Zero load loss	<10mA/12V		
休眠功能 Sleep loss	<0.8mA/12V		
负载电流 Load current	50mA~2000mA	√	330mA
负载电压 Load voltage	15V~45V		
负载最大功率 Maximum load power	40W/12V		
负载转换效率 Load conversion efficiency	90%~96%		
负载电流精度 Load current accuracy	< 3%		
最大充电电流 Maximum charge current	10A	√	中
太阳能输入电压 Solar input voltage	≤25A		
光控电压 Light control voltage	3V~11V	√	5V
光控延时 Light control delay	5s-60s/2min~60min	√	30s
工作温度 Operating temperature	-35℃~+65℃		
防护等级 IP rating	IP67		
重量 Weight	150g		

Solar Control Diagram
AC/DC Hybrid Solar Charge



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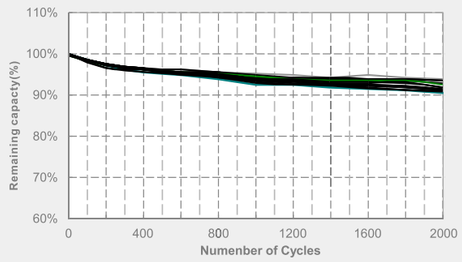
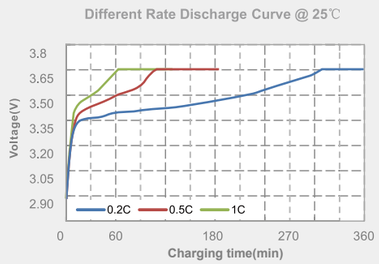
长寿命耐用电池 Durable & Long Lifetime Battery

- 磷酸铁锂电池
- 最安全的锂化学，高能量密度
- 内置自动保护，可防止过充电，电流过大和温度过高
- 高效&持久，可达 4000多个循环 DOD 50%
- ＞2000 个循环@0.2C，充电/放电在100% DOD
- 宽温度范围:-20℃~60℃
- 安装后免维护

- Lithium Iron Phosphate (LiFePO4) Battery
- Safest lithium chemistry with high energy density
- Built-in automatic protection for over-charge, over discharge, over current and over temperature
- Efficient&long-lasting up to 4000+cycles DOD 50%
- ＞2000 cycles @0.2C，Charge/Discharge at 100% DOD
- Wide temperature range:-20℃~60℃
- Maintenance free after installation







参数名称 Item	参数值 Parameter value
电池容量 Battery capacity	154WH/12.8V 12AH
电池类型 Battery Type	LiFePO4 Battery Pack
循环寿命 Lifetime in cycles	2000 cycles
单元类型 Cell Type	32700 3.2V/6000mAH
电池单元的数量 Quantity of battery cell	2P4S
充电模式 Charging mode	Constant Current Constant Voltage
充电电压 Charge voltage	14.6V
放电截止电压 Discharge Cut-off Voltage	≥8V
最大连续充电电流 Max. Continuous Charging Current	3.0A（0℃~65℃）
存储温度 Storage Temperature	-20℃~25℃(1 year)　-20℃~45℃(3 months)　-20℃~60℃(1 month)
工作温度 operating temperature	0℃~50℃(Charging)　-20℃~60℃(Discharge)

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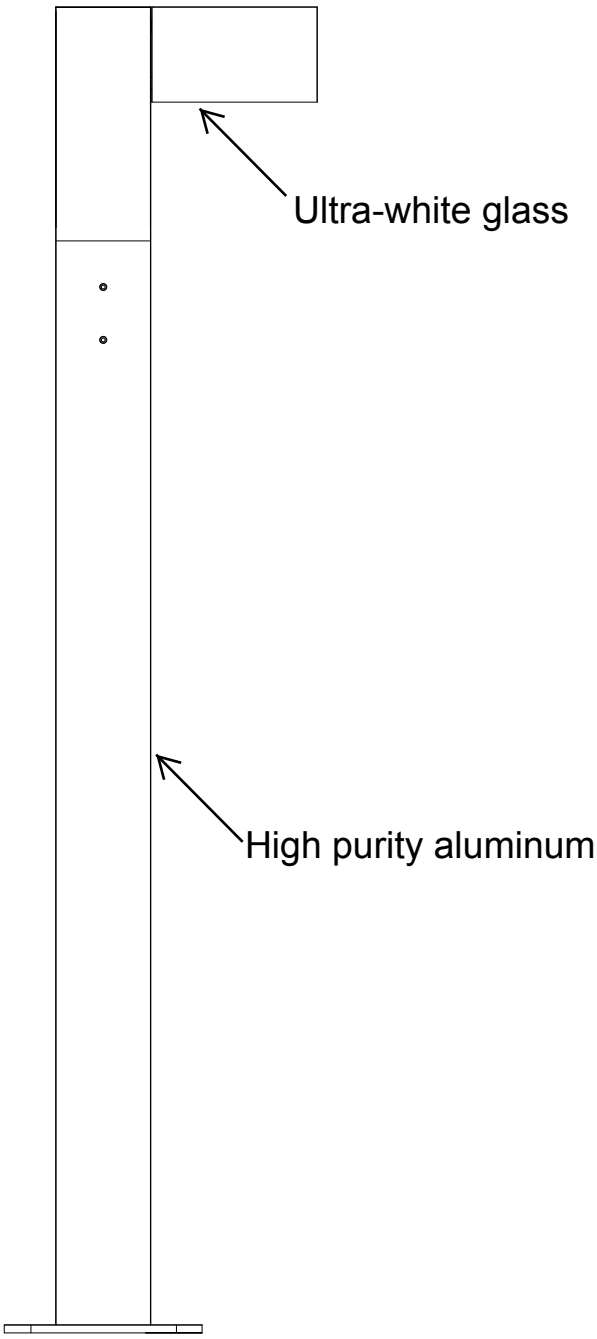
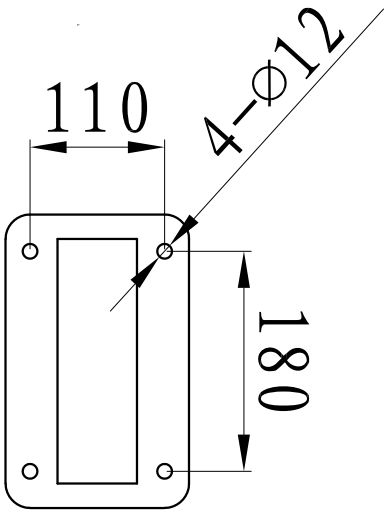
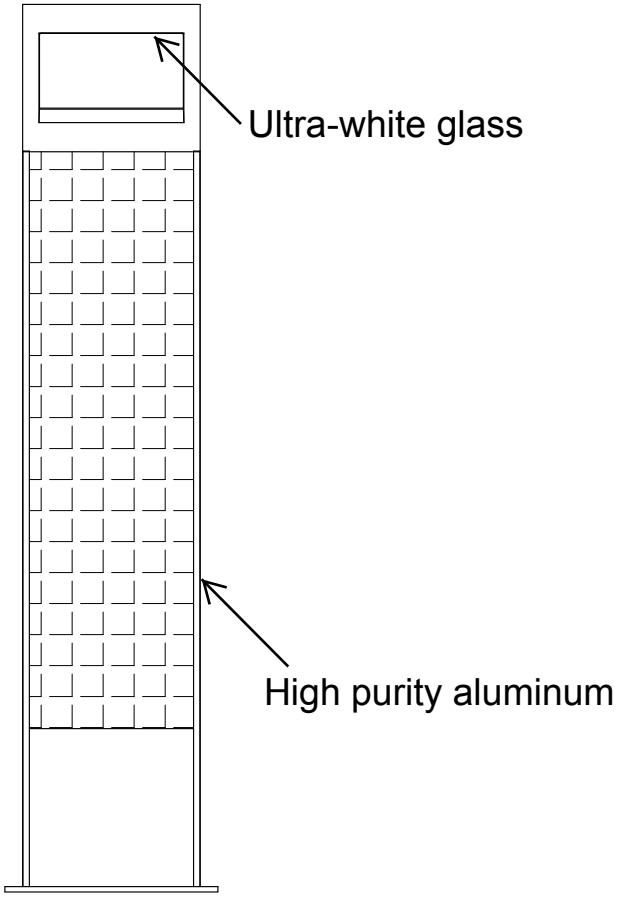
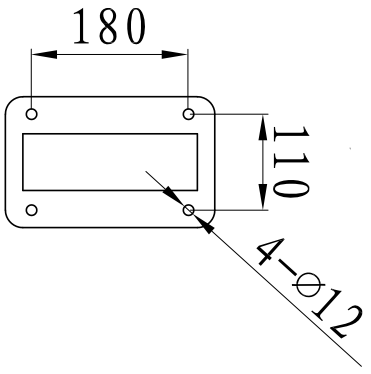




Installation template



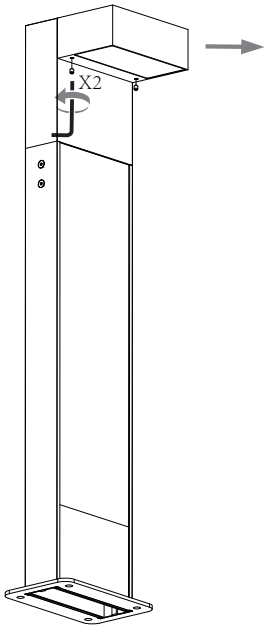


Installation template

OUTDOOR

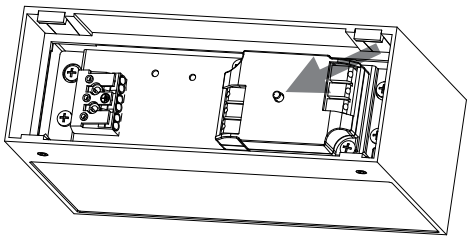
①





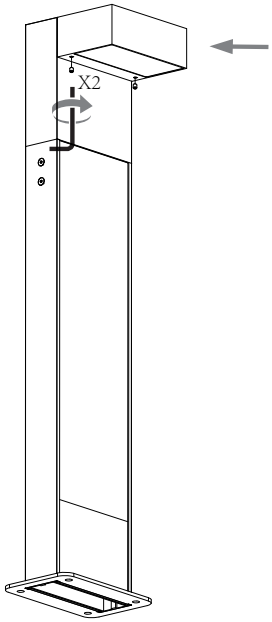
②

Flip the switch



Turn on : Press and hold the switch for 3 seconds
Turn off : Touch the switch once

③



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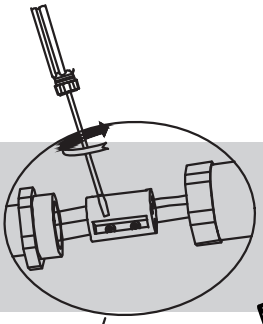
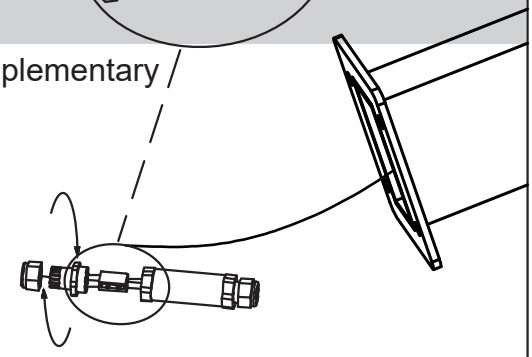


Not mains complementary /
Skip step



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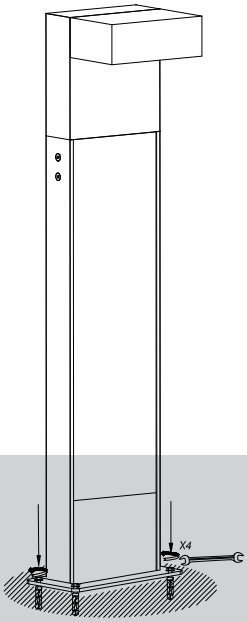

⑥

