



TS-241



圆形太阳能庭院灯 Circular Solar Street Lighting



- 铝压铸灯体外壳，透明PC罩，能有效防止发黄老化
- 高透光PC扩散罩，具有高视觉舒适性和均匀配光
- 安装管径有Ø76mm / Ø60mm
- 高强度铝合金灯体外壳，防腐塑粉喷涂表面
- 无生物蓝光危害风险，符合EN62471：2008标准
- 采用通常用于电动客车的LiFePO₄电池
- 防紫外线聚氨酯塑粉喷涂表面，耐腐蚀可以达1000小时以上
- 一键开关，无需打开灯具内部接线，安装方便
- 所有外部螺钉均为304不锈钢材质

- Aluminum die-cast lamp body shell, transparent PC cover, can effectively prevent yellowing and aging.
- High light transmission PC diffusion cover for high visual comfort and uniform light distribution.
- The installation pipe diameter is Ø75mm / Ø60mm.
- High strength aluminum alloy profile lamp post, anti-corrosion plastic powder coating surface.
- No photo-biological risk,(no risk linked to infrared,blue light and UV radiation) in accordance with EN 62471:2008.
- With LiFePO₄ battery which usually apply for electric bus.
- Surface anti-ultraviolet pure polyester powder painting, Corrosion resistance can be more than 1000 hours.
- One-button switch, no need to open the internal wiring of the lamp, easy installation.
- All external screws are made of 304 stainless steel.



太阳能板 / Solar panel



开关按键 / on/off keying

远程控制系统和智能系统可选 Remote control system & Smart intelligent system availble upon request



节能控制系统
Energy saving with
remote control system



遥控器
Remote control



人体感应
Motion sensor



TS-241



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Circular Solar Street Lighting

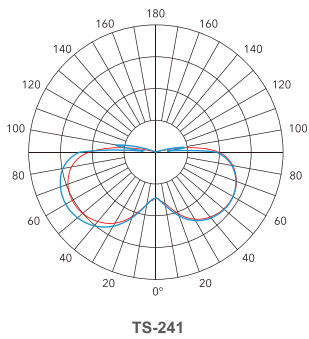
Technical Data

SOLAR-GENERAL

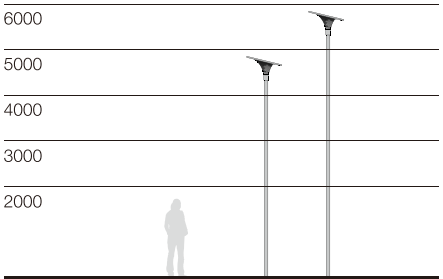
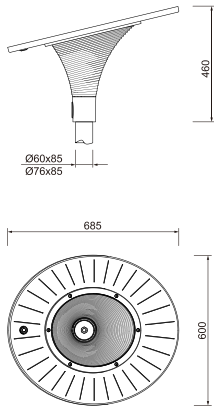
Autonomy Information : 2 days
Working mode : 1hrs - 100%, 2hrs - 50%, 8hrs - 20%

Model 灯具型号	Power 功率	Solar PV 太阳能板	LiFePO ₄ Battery 电池	Luminous 光通量	LED Chips LED灯珠
TS-241LED18	18W	18V/50W	154WH/12.8V 12AH	1800 lm	2835*288pcs

配光曲线 Photometric Data



产品尺寸 Product dimensions

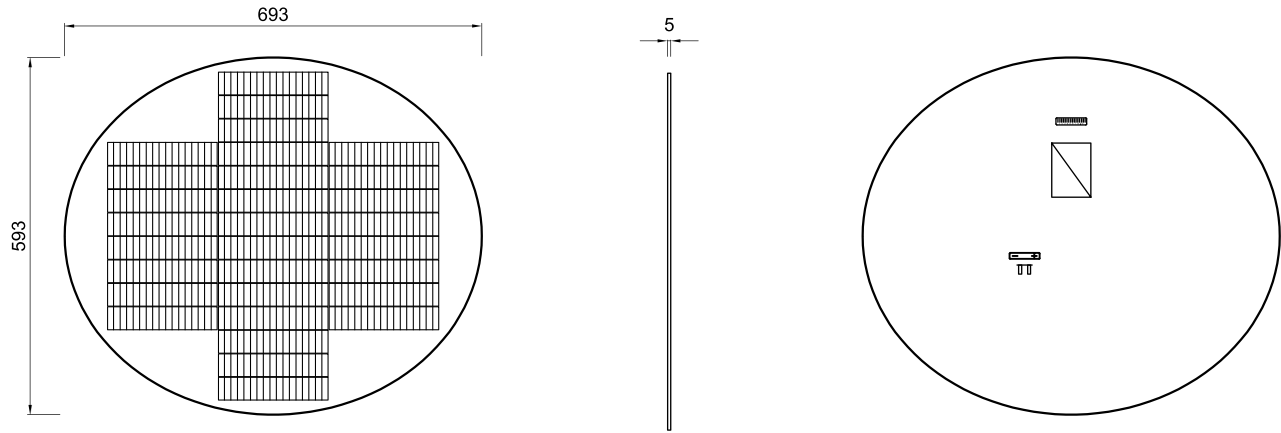


太阳能板参数 Solar panel parameters



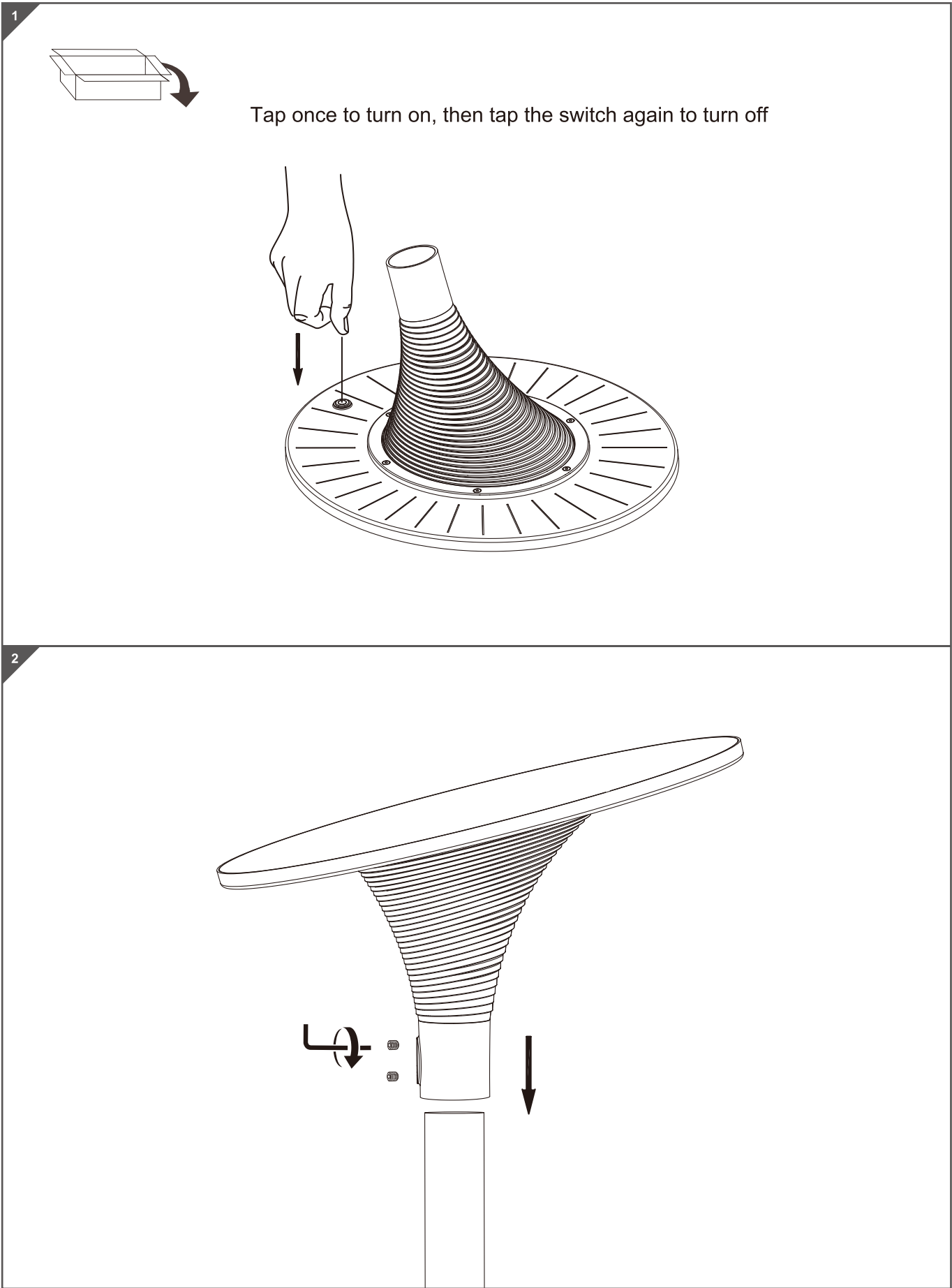
名称 Name	单晶黑底玻璃组件 monocrystalline silicon black base glass assembly
最大峰值功率 Maximum Peak Power	50W(±3%)
开路电压 Open-circuit voltage	21.55V
最大工作电压 Maximum Power Voltage	18.15V
最大工作电流 Working current	2.75A
短路电流 Short-circuit current	2.89A
太阳能电池片效率 Solar cell efficiency	21.8-22.8%
电池片种类 Type of battery	单晶硅 monocrystalline silicon
尺寸 (mm) Dimension	693*593*5
工作温度 Operating temp	-40℃~85℃
工作环境湿度 Working ambient humidity	20%~98%(RH)
寿命 Lifetime	25 years
质保 Warranty	5 years

太阳能板尺寸 Solar panel size



18V50W Monocrystalline silicon
black base glass assembly

安装说明 Installation instructions



MPPT太阳能控制恒流一体机 MPPT solar control constant current integrated machine



- 适用于磷酸铁锂电池
- 采用MPPT 最大功率跟踪技术，跟踪效率高达99.5%
- 降功率曲线，控制方式灵活，有效避免蓄电池亏电导致灭灯
- 一键操作进入微低功耗休眠，适合远程运输和存储，可通过遥控或光控的方式唤醒控制器
- 可扩展人体感应功能，来人亮灯，人走低功率运行。在低人流路段或时段使用该功能，可有效节约电能
- 控制策略灵活，各时段有人无人功率分别可调，人体感应功能可开启
- 系列具备无线通讯功能，可穿透塑料或铝制外壳进行遥控，无需外引指示灯面板，降低故障率

- Suitable for LiFePO4 battery
- MPPT maximum power tracking technology, tracking efficiency up to 99.5%
- Power reduction curve, flexible control mode, effectively avoid battery power loss caused by lamp off
- One-click operation to enter micro-low-power sleep, suitable for remote transport and storage, can be remotely or light-controlled by the way to wake up the controller.
- It can expand the human body sensing function, the bearer lights up, and the person runs at low power. The use of this function in low-flow road sections or periods can effectively save power.
- The control strategy is flexible, the power of each period can be adjusted respectively, and the human body sensing function can be opened.
- The column has wireless communication function, can penetrate the plastic or aluminum housing for remote control, no external pilot light panel, reduce the failure rate.

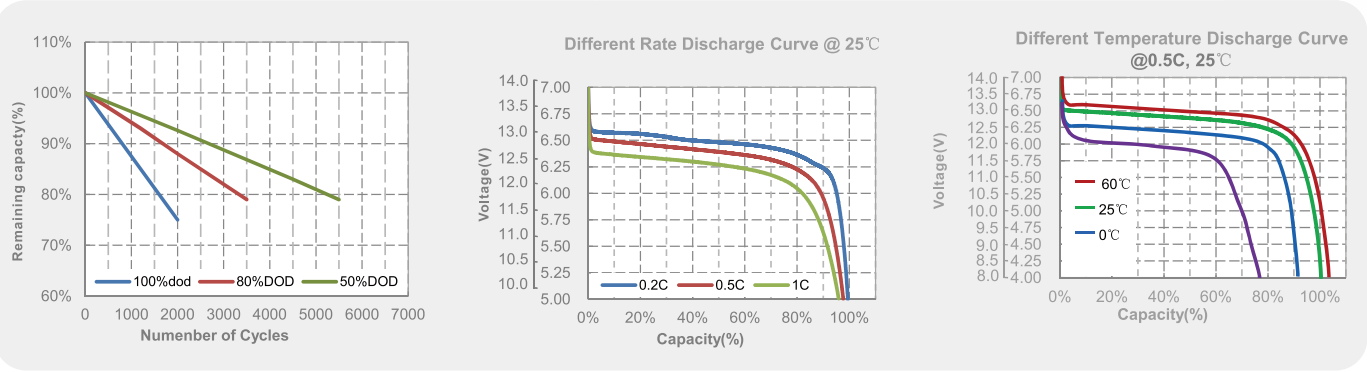
名称 Item	QS-01C25D		QS-01C25S	
遥控方式 Remote control system	无线 / 433		wireless / 433	
遥控距离 Remote control distance	10m (无遮挡)		10m (uncovered)	
充电方式 Charging mode	MPPT (最大功率点跟踪)		MPPT (Maximum power point tracking)	
适用电池串数 Applicable battery string	4串		4 series	
蓄电池电压范围 Battery voltage range	10.8 ~ 14.4V			
功能描述 Function description	时段调光	Interval dimming	微波人体感应	Microwave sensing
光电池电压范围 Photocell voltage range	16 ~ 25V			
最大充电电流 Maximum charging current	6A			
放电方式 Discharge mode	升压恒流	Boost voltage with constant current		
适用负载 Applicable load	6 ~ 10串	6 ~ 10bunches		
输出电压 Output voltage	Vin+3 ~ 35V (MAX)			
最大输出电流 Maximum output current	1.3A			
最大输出功率 Maximum output power	25W			
输出电流误差 Output current error	< 3%			
输出纹波 Output ripple	≤600mA			
最大放电效率 Maximum discharge efficiency	92%			
最大充电效率 Maximum charging efficiency	95%			
光控延时 Optical delay	20s			
工作温度 Operating temperature	-35~55℃			
空载电流 No-load current	≤15mA			

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 80%
- > 2000 个循环@0.2C，充电/放电在100% DOD
- 宽温度范围:-20℃~70℃
- 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 dijxcharge, over
- 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	≥8.0V
最大连续充电电流 Max. Continuous Charging Current	3.0A (0℃~65℃)
存储温度 Storage Temperature	-10℃~45℃
工作温度 operating temperature	-20℃~70℃