



SOLAR ENERGY LIGHTING SERIES

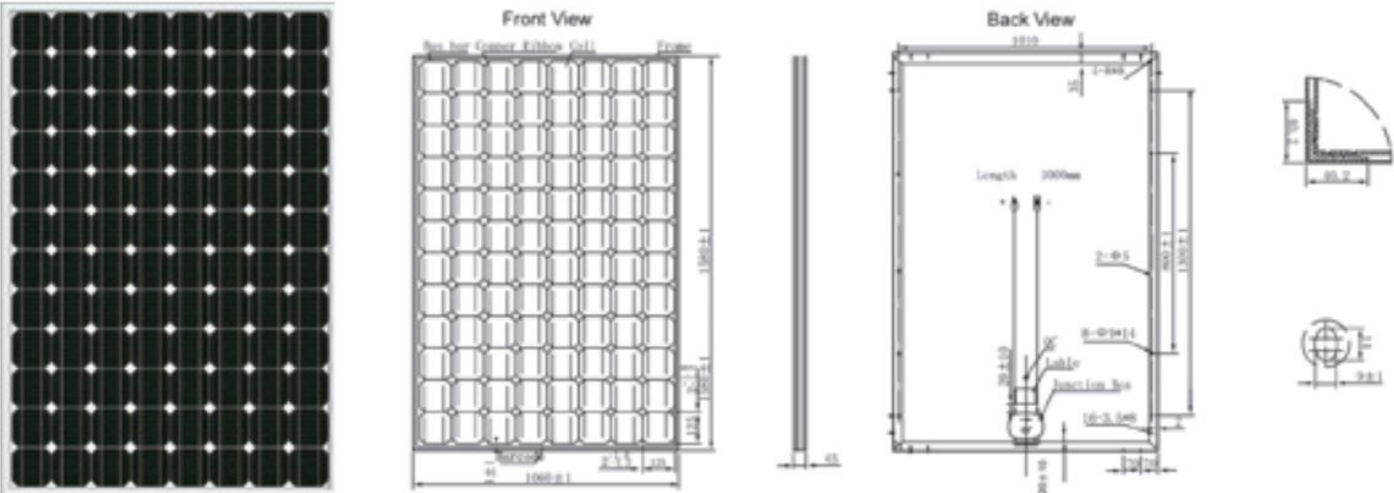
太阳能照明系列

太阳能照明是近年来照明工程中利用太阳能部分替代传统照明的一种新型光源配置形式，由于它环保、节能、高效等无可比拟的优良特性，一问世就受到大众的青睐。可适用于道路、庭院、公园、学校、高原及野外无外接电源地区的照明和装饰。改变传统节电节能模式，倡导绿色环保型照明，突出可持续发展理念，造福世界造福人类。

In recent years, solar lighting becomes one part of the using of solar energy, a new alternative to traditional forms of light sources, because of its environmental protection, energy saving, high efficiency and other characteristics of unparalleled quality, one came to by the general public of all ages. Applied to roads, gardens, parks, schools, and field plateau region without external power supply lighting and decoration. Change the traditional mode of saving energy, promote green lighting, highlighting the concept of sustainable development for the benefit of the world of mankind.



单晶硅太阳能电池板
MONO-CRYSTALLINE SOLAR PANE



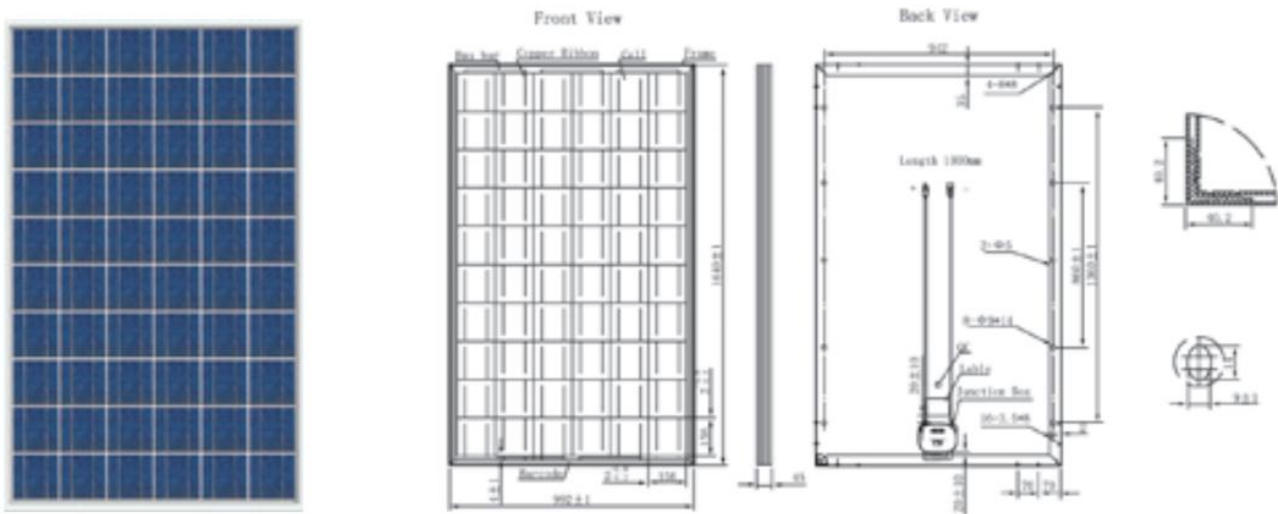
电力参数 Typical Electrical Characteristics

型号 Type	TYN250M-32	TYN255M-32	TYN260M-32	TYN265M-32	TYN270M-32	TYN275M-32
峰值功率 Maximum power(Pmax)	250W	255W	260W	265W	270W	275W
功率公差 Power Tolerance	± 3%	± 3%	± 3%	± 3%	± 3%	± 3%
开路电压 Open Circuit Voltage(Voc)	59.9V	60.7V	61.6V	61.9V	62.3V	59.8V
短路电流 Short Circuit Current(Isc)	5.58A	5.60A	5.63A	5.72A	5.84A	6.16A
峰值电压 Maximum Power Voltage(Vmp)	47.9V	48.3V	49.2V	49.5V	49.9V	50.3V
峰值电流 Maximum Power CURRENT(Imp)	5.22A	5.28A	5.29A	5.35A	5.41A	5.47A
电池片转换效率 Cell Efficiency	17.4%	17.6%	18%	18.40%	18.8%	19.00%
组件效率 Module Efficiency	14.93%	15.23%	15.52%	15.82%	16.12%	16.42%
最大系统电压 Max.System Voltage	1000VDC					
型号 Cell Size and Series	6"(125mm)*6"(125mm)mono 96pcs(8*12)					
旁路二极管 Bypass Diodes	4pcs 9A					
峰值功率温度系数 Temperature Coefficients of Pmax	-0.47%/℃					
开路电压温度系数 Temperature Coefficients of Voc	-0.38%/℃					
短路电流温度系数 Temperature Coefficients of Isc	0.10%/℃					
电池正常工作温度 NOTC~Nominal Operating Cell Temperature	45℃ (± 2)					
标准测试条件 STC Condition	辐照度 1000W/M ² , 光谱分布 AM1.5, 太阳能电池表面温度 25℃ Irradiance level 1,000W/m ² , Spectrum AM 1.5, and Cell Temperature 25℃					

机械参数 Mechanical Characteristics

表面最大负载 Surface Maximum Load Capacity	2400Pa
冰雹撞击测试 Allowable Hail Load	227 克球从 1 米高处坠落 \227g steel ball fall down from 1m height
玻璃类型 Glass type	透光率高, 含铁量低, 3.2mm 钢化玻璃 \ High transmit, low iron, 3.2mm tempered glass
边框 Frame	铝合金 \Aluminium-alloy
尺寸 Dimensions(mm)	1580mm(L) × 1060mm(W) × 45mm(H)
重量 Weight(kg)	22.5kgs
绝缘电压 Dielectric Insulation Voltage	3600VDCmax
工作温度 Operating Temperature	-40℃ +85℃
储存温度 Storage Temperature	-40℃ +85℃
电缆长度 Cable Length	1000mm

多晶硅太阳能电池板
POLY-CRYSTALLINE SOLAR PANEL



电力参数 Typical Electrical Characteristics

型号 Type	TYN215P-20	TYN220P-20	TYN225P-20	TYN230P-20	TYN235P-20	TYN240P-20
峰值功率 Maximum power(Pmax)	215W	220W	225W	230W	235W	240W
功率公差 Power Tolerance	± 3%	± 3%	± 3%	± 3%	± 3%	± 3%
开路电压 Open Circuit Voltage(Voc)	36.5V	37.0V	37.0V	37.0V	37.0V	37.2V
短路电流 Short Circuit Current(Isc)	8.03A	8.10A	8.17A	8.22A	8.29A	8.33A
峰值电压 Maximum Power Voltage(Vmp)	29.3V	29.5V	29.6V	29.8V	30.0V	30.2V
峰值电流 Maximum Power CURRENT(Imp)	7.34A	7.45A	7.60A	7.72A	7.83A	7.95A
电池片转换效率 Cell Efficiency	15.0%	15.4%	15.8%	16.2%	16.4%	16.8%
组件效率 Module Efficiency	13.21%	13.52%	13.83%	14.14%	14.44%	14.75%
最大系统电压 Max.System Voltage	1000VDC					
型号 Cell Size and Series	6"(156mm)*6"(156mm)poly 60pcs(6*10)					
旁路二极管 Bypass Diodes	3pcs 9A					
峰值功率温度系数 Temperature Coefficients of Pmax	-0.38%/℃					
开路电压温度系数 Temperature Coefficients of Voc	-0.32%/℃					
短路电流温度系数 Temperature Coefficients of Isc	0.08%/℃					
电池正常工作温度 NOTC-Nominal Operating Cell Temperature	45℃ (± 2)					
标准测试条件 STC Condition	辐照度 1000W/M ² , 光谱分布 AM1.5, 太阳能电池表面温度 25℃ Irradiance level 1,000W/m ² , Spectrum AM 1.5, and Cell Temperature 25℃					

机械参数 Mechanical Characteristics

表面最大负载 Surface Maximum Load Capacity	2400Pa
冰雹撞击测试 Allowable Hail Load	227 克球从 1 米高处坠落 \227g steel ball fall down from 1m height
玻璃类型 Glass type	透光率高, 含铁量低, 3.2mm 钢化玻璃 \High transmit, low iron, 3.2mm tempered glass
边框 Frame	铝合金 \Aluminium-alloy
尺寸 Dimensions(mm)	1640mm(L) × 992mm(W) × 45mm(H)
重量 Weight(kg)	22.5kgs
绝缘电压 Dielectric Insulation Voltage	3600VDCmax
工作温度 Operating Temperature	-40℃ +85℃
储存温度 Storage Temperature	-40℃ +85℃
电缆长度 Cable Length	1000mm

太阳能离网发电系统

OFF-GRID SOLAR POWER SYSTEM



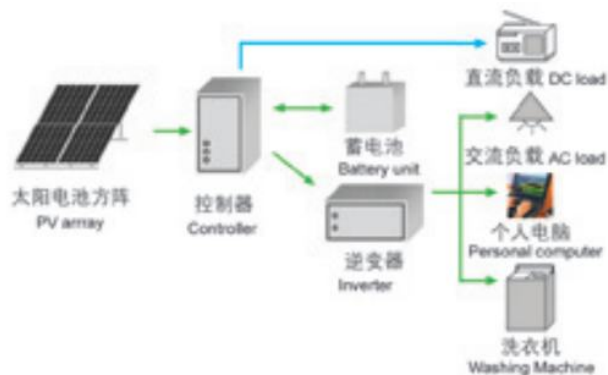
太阳能离网发电系统

SOLAR OFF-GRID POWER GENERATION SYSTEM

- 离网太阳能光伏发电是指太阳能光伏发电不与电网连接的发电方式，典型特征为需要蓄电池来存储夜晚用电的能量。离网太阳能光伏发电在民用范围内主要用于边远的乡村、牧区、海岛、高原、沙漠的农牧民提供照明、收看电视、收听广播等的基本生活用电；在工业范围内主要用于通讯、卫星广播电视中继站、太阳能水泵、航标灯、输油输气管道阴极保护、气象台站、公路道班以及边防哨所等提供电源，在具备风力发电和小水电的地区还可以组成混合发电系统，如风力发电、太阳能发电补充系统等。
- The off-grid solar photovoltaic power is defined as power generation mode that is connected by solar photovoltaic power generation and the grid, its typical characteristic is that the battery stores electric energy to use at night. In the civilian range, off grid solar photovoltaic power generation is mainly used for the basic electrical life, such as provide lighting, watching TV, listening to broadcasting, etc for herdsmen in remote rural, pastoral areas, islands, plateau, desert; In the industrial range, it is mainly used to provide power for communications, satellite radio and television relay stations, solar water pumps, beacon lamp, oil and gas pipeline cathodic protection, meteorological stations, road station and border posts, etc. In the area where wind power and hydro power is possible, it can also apply mixed power system, such as wind power system, solar power system.

太阳能离网发电系统概要图

SOLAR OFF-GRID POWER GENERATION SYSTEM SCHEMATIC





太阳能并网发电系统

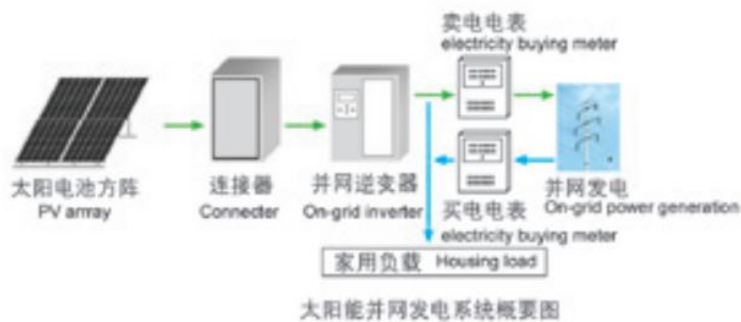
SOLAR GRID-CONNECTED POWER GENERATION SYSTEM

• 太阳能并网发电系统通过把太阳能转化为电能，不经过蓄电池储能，直接通过并网逆变器，把电能送上电网。开发新能源和可再生清洁能源是二十一世纪经济发展中最具决定性影响的五项技术领域之一。充分开发利用太阳能是世界各国政府可持续发展的能源战略决策，其中太阳光发电则最受瞩目。太阳光发电远期将大规模应用，近期可解决特殊应用领域的需要，到 2030 年光伏发电在世界发电总量中将占到 5%~20%。太阳能电池发电独具许多优点，如安全可靠，无噪声、无污染、能量随处可得、不受地域限制、无需消耗燃料、无机械转动部件、故障率低、维护简便、可以无人值守、建设周期短、规模大小随意、无需架设输电线路、可以方便地与建筑物相结合等，这些优点都是常规发电和其它发电方式所不及的。

• The solar grid-connected power generation system converts solar energy into electric energy directly through the grid connected inverter, without through battery storage, to send electric energy to the electricity grid. The development of new energy and renewable clean energy is one of the five most crucial technologies in the economic development in twenty-first Century. Full development and utilization of solar energy is energy strategic decision-making of all governments based on sustainable development around the world, in which the solar power generation attracts the most attention. Solar power generation will be widely applied in the future, and currently is able to meet requirements in application field, by 2030, the solar power generation will have accounted for 5%~20% based on total power generation in the world. There are many advantages for solar power generation, such as safe, reliable, no noise, no pollution, energy is available everywhere, no geographical restrictions, no fuel consumption, no mechanical moving parts, low failure rate, easy maintenance, unattended operation, short construction period, optional size, no need to set up the transmission line, be able to conveniently combined with buildings, etc, which are the conventional power generation methods and other power generation methods fail to catch up with.

太阳能并网发电系统

SOLAR GRID-CONNECTED POWER GENERATION SYSTEM



工厂式屋顶发电系统特点

Factory roof power generation system

- 一次性投资，25 年稳定获得 15% 左右投资回报率，比钱存银行划算
- 享国家补贴，经济收益高，减轻用户负担，节约电力成本
- 屋顶隔热效果良好，优于其他常规隔热措施
- 不占用建筑用地，工期短
- One-time investment, stable gain 15% return on investment, 25 years than money bank
- Enjoy state subsidies, high economic benefits, reduce the financial burden on the user, save electricity costs
- Roof insulation effect is good, the sorrow in other conventional heat insulation measures
- Do not take up land for construction, short time limit

太阳能照明系统解决方案

SOLAR LIGHTING SYSTEM SOLUTIONS

1. 为了给制作最佳的太阳能照明系统方案，您需提供什么信息给我？

- (1) 具体的安装地点，我们要根据当地的日照峰值时间来给您核算配置。
- (2) 需要路灯每天工作几个小时（例如 5 小时或 10 小时）。
- (3) 在雨季来临的时候，要保证几个连续的阴雨天（例如 3 天或 4 天），路灯能正常地为您照明。
- (4) 灯杆的高度或者路的宽度。
- (5) 对路灯亮度的要求。

2. 什么是日照峰值时间？

每小时到达地球上的阳光的单位强度，可以以此分析出气候和天气。被测量的阳光强度最强的时候应该是在中午，在中午前后的 3 ~ 4 个小时（根据地区不同有所差异）内，阳光对电池板的充电效果是最好的（当然夏天最热的时候或许除外）。

3. 太阳能路灯如何知道什么时候开，什么时候关？

我们选用的控制器是光控加时控的智能防水控制器，有了它，安装以后我们可以不进行任何人为的控制，它都可以按时地开或者关，因为控制器相当于人的心脏位置，他连接着吸收阳光的太阳能电池板，存储能量的蓄电池和照明用的光源，当它感知到电池板的电压降到设定的程度，他便发出指令给光源进行照明，当我们设定的时间（比如 10 小时）到达时，他便自动的关闭光源，这就是智能的光控开，时控关技术，另外此控制器还有多项功能，比如可以防止蓄电池的过充或者过放，以免对蓄电池造成损伤。

4. 如果连续出现几个阴雨天怎么办，它还能正常工作吗？

如果最近几天天气并不是很好，多云或者下雨，那您也不要担心，因为我们也考虑到了，在我们给您做方案的时候，可以提前做好足准备，3 天还是 5 天随您定，只要是经常性，连续的阴雨天出现就可以持续照明了，但请记住做方案时，要考虑常性，连续的天数，个别的时候连续天数多一点不建议按照个别的来设计，因为这样您的成本也会增加很多。

5. 如何对太阳能系统进行维护？

太阳能系统从直观上来讲是不需要进行太多的维护的，这也是他的方便之所在，不过如果当地的灰尘非常地大，建议您使用过程中 3 ~ 5 个月对电池板进行一次清理，以保持它对阳光良好的接触效果。

1. In order to make the best solar lighting system for you, what information do you need to give me?

(1) Specific installation site, we need to calculate and configure for you according to the local peak sunshine time.

(2) Street lights are required to work several hours a day (e.g. 5 hours or 10 hours).

(3) When the rainy season comes, we should ensure that several continuous rainy days (for example, three or four days) can be illuminated properly by street lights.

(4) The height of the lamp post or the width of the road.

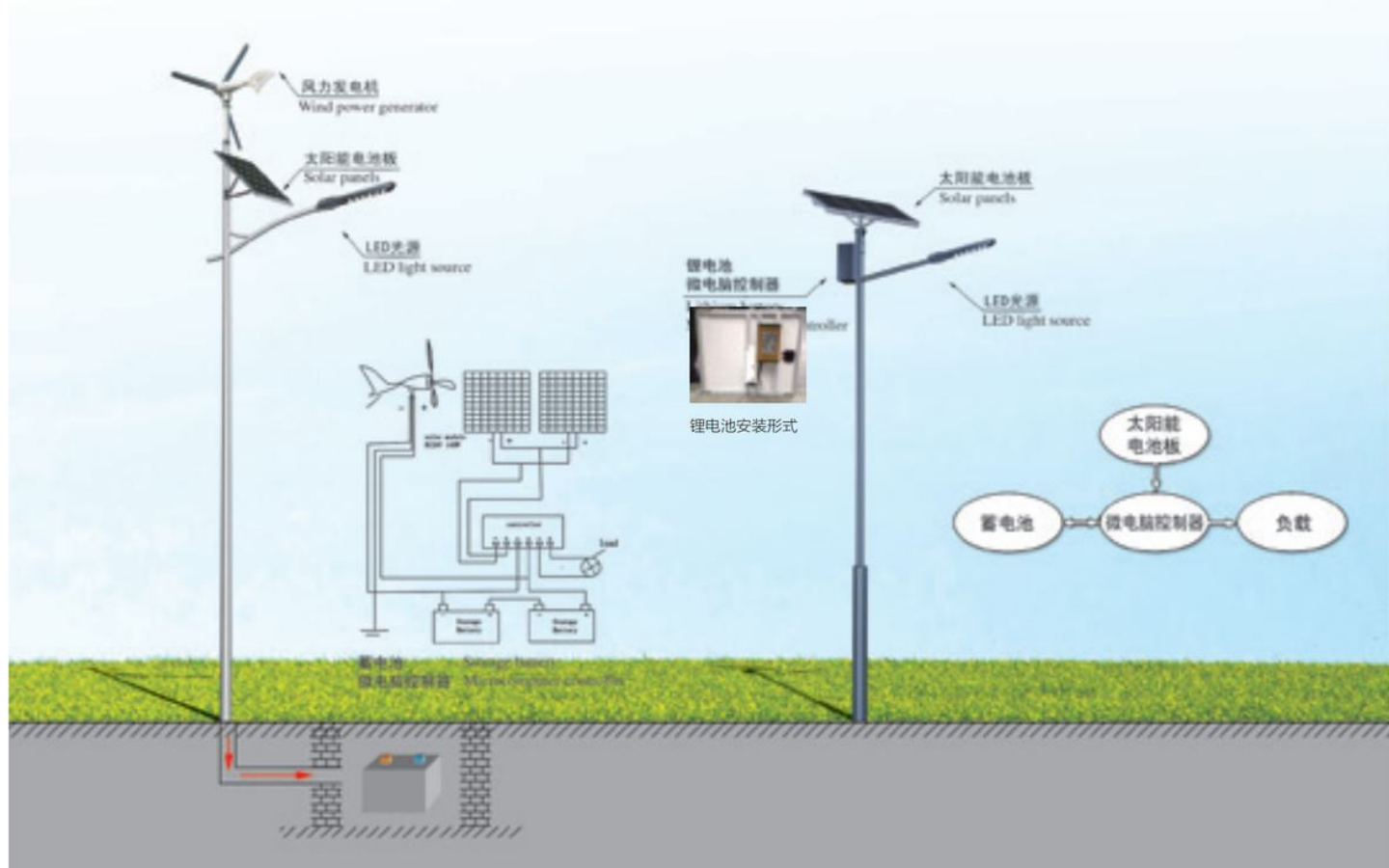
(5) Requirements for street lamp brightness.

2. What is the peak sunshine time?

The unit intensity of sunlight reaching the Earth every hour can be used to analyze climate and weather. The strongest measured sunshine intensity should be at noon. Within 3 to 4 hours before and after noon (depending on the region), sunshine charges the batteries best (except perhaps in the hottest summer).

3. How do solar street lights know when to turn on and when to turn off?

The controller we choose is an intelligent waterproof controller with light control and time control. With it, we can not carry out any artificial control after installation. It can turn on or off on time, because the controller is equivalent to the position of human heart. It connects solar panels that absorb sunlight, batteries





风力发电机
Wind turbines



太阳能电池板
Solar panels



大功率 LED 光源
High power LED light source



微电脑控制器
The microcomputer controller



蓄电池
Battery



锂电池
Lithium battery



型号: LDTYN-08401 型 高度 :5-8m 光源: LED

that store energy and illumination. When it senses that the voltage of the battery panel drops to a set level, it sends out instructions to illuminate the light source. When the time we set (for example, 10 hours) arrives, it automatically turns off the light source. This is intelligent light-controlled turn-on and time-controlled turn-off technology. In addition, this controller has many functions, such as can. To prevent the battery from overcharging or discharging, so as to avoid damage to the battery.

4. What if there are several rainy days in succession, can it still work properly?

If the weather in recent days is not very good, cloudy or rainy, you should not worry about it, because we also consider that when we make the plan for you, we can make full preparations ahead of time, three or five days as you decide, as long as it is regular, continuous rainy and cloudy days can continue to light, but please remember to do the plan. Consider the constancy, the number of consecutive days, the number of consecutive days is a little more in an individual time. It is not recommended to design according to the individual, because your cost will also increase a lot.

5. How to maintain the solar energy system?

Solar energy system does not need much maintenance intuitively, which is also his convenience, but if the local dust is very large, it is recommended that you use the process of 3 to 5 months to clean up the battery board, in order to maintain its good contact with the sun.

方形软包三元电池系列

SQUARE SOFT PACKAGE THREE YUAN BATTERY SERIES



型号 /Model	TYN-LDC-001
电芯材料体系 /Core material system	三元素 (镍、钴、锰) Three elements (nickel, cobalt, manganese)
标称电压 /Nominal voltage	3.7V
电芯容量 /Core capacity	25Ah
最大充放电电流 /Maximum charge discharge current	48A
外形尺寸 /Shape size	6.4*156*225 ± 1mm
电芯重量 /Core weight	0.475 ± 0.01kg
使用环境温度 /Use of ambient temperature	" 充电温度范围 :0~ 60℃ 放电温度范围 :-30℃ ~ +60℃ "Charge temperature range: 0~ 60 C Discharge temperature range: -30 C ~ +60 C
特点 /Characteristic	相比铝壳电池的质量要轻, 内阻要小, 自放电小, 活性物质的利用率高, 设计容量灵活。 Compared with the aluminum shell battery, the quality of the battery is lighter, the internal resistance is smaller, the self discharge is small, the utilization rate of the active substance is high, and the design capacity is flexible.
体系 /system	" 正极: 三元 (镍、钴、锰) 电芯: 3.7V25Ah "Positive electrode: three yuan (nickel, cobalt, manganese) core: 3.7V25Ah
外形尺寸 /Shape size	33.7*24.2*13.9cm
重量 /weight	18.6kg ± 0.5kg
标称电压 /Nominal voltage	12V
电池组容量 /Battery pack capacity	200Ah
充放电电流 /Charge discharge current	支持 60A 大电流充放电 Support 60A high current charge discharge
循环寿命 /cycle life	1000 次 /1000 times
使用环境温度 /Use of ambient temperature	-30℃ ~ +60℃
存储时间 /Storage time	3-6 个月 /3-6 months

铝合金壳体配圆柱电池系列

SERIES OF CYLINDRICAL BATTERIES FOR ALUMINUM ALLOY SHELLS



型号 /Model	TYN-LDC-002
体系 /system	" 正极: 三元素 (镍、钴、锰) 电芯: 3.7V2500mAh/2000mAh, 18650" "Positive pole: three elements (nickel, cobalt, manganese) Electric core: 3.7V2500mAh/2000mAh, 18650 "
标称电压 /Nominal voltage	12V
电池组容量 /Battery pack capacity	10Ah-200Ah 可选订制 /10Ah-200Ah optional reservation
使用环境温度 /Use of ambient temperature	适合低温、高温环境: -30℃ ~ +60℃ Suitable for low temperature and high temperature environment: -30 C ~ +60 C
防水等级 /Waterproof grade	IP67
智能控制 /Intelligent control	光控 + 时控, 支持晨亮和具备自动节能功能, 可通过 WIFI 进行电池运行数据的监控。/Light control plus time control, morning lighting and automatic energy saving function can monitor battery running data through WIFI.
壳体 /housing	可根据客户需求配置外部壳体 External shell can be configured according to customer requirements
存储时间 /Storage time	3-6 个月 /3-6 months

太阳能一体化路灯控制器

SOLAR INTEGRATED STREET LAMP CONTROLLER



主要特点 main features

- 高效的 MPPT 充电管理系统，对比 PWM 太阳能充电方式，提高 50% 充电量
- 智能化电池充电管理系统，延长电池寿命 ≥ 30
- 采用高品质电子元器件，转化效率最高可达 95%
- 先进的 LED 亮度远程控制系统，亮度 0-100 级可调
- 基于 LORA 微型基站可实现城市环境 2-3KM 的地域辐射，农村环境 3-4KM 的地域辐射
- GPRS 无线通信系统，可通过 2G 网络完成远程云端系统通信
- 可远程控制，通过服务器完成单灯的开灯、关灯、调光等功能
- 具有信息统计功能，包括电池充放电、电流、电压等
- 具有故障报警功能，包括识别各个部件状态，确认出现故障后向服务器发送干警信息
- 支持软件功能升级
- Efficient MPPT charging management system, compared with PWM solar charging mode, to increase the 50% charging capacity.
- Intelligent battery charging management system to extend battery life longer than 30
- Using high quality electronic components, the highest conversion efficiency can reach 95%.
- Advanced LED brightness remote control system, brightness 0-100 level adjustable
- LORA based micro base station can realize the regional radiation of urban environment 2-3KM, and the regional radiation of rural environment 3-4KM.
- GPRS wireless communication system can complete remote cloud system communication through 2G network.
- Remote control, through the server to complete the single lamp turn on, turn off the lights, dimming and other functions.
- It has the function of information statistics, including battery charging and discharging, current, voltage, etc.
- It has the function of fault alarm, including identifying the status of each component, and sending 1000 alarm information to the server after confirming the failure.
- Support software functionality upgrades

MPPT无线远程控制物联网路灯控制器

MPPT WIRELESS REMOTE CONTROL NETWORK LAMP CONTROLLER



无线通讯功能 Wireless communication function

- 具有互联网无线通讯功能，通过太阳能路灯智能管理系统，对路灯进行远程监控、实时监控。
- It has the function of internet wireless communication, and carries out remote monitoring and real-time monitoring of street lamps through intelligent management system of solar street lamps.

MPPT 储能管控 MPPT energy storage control

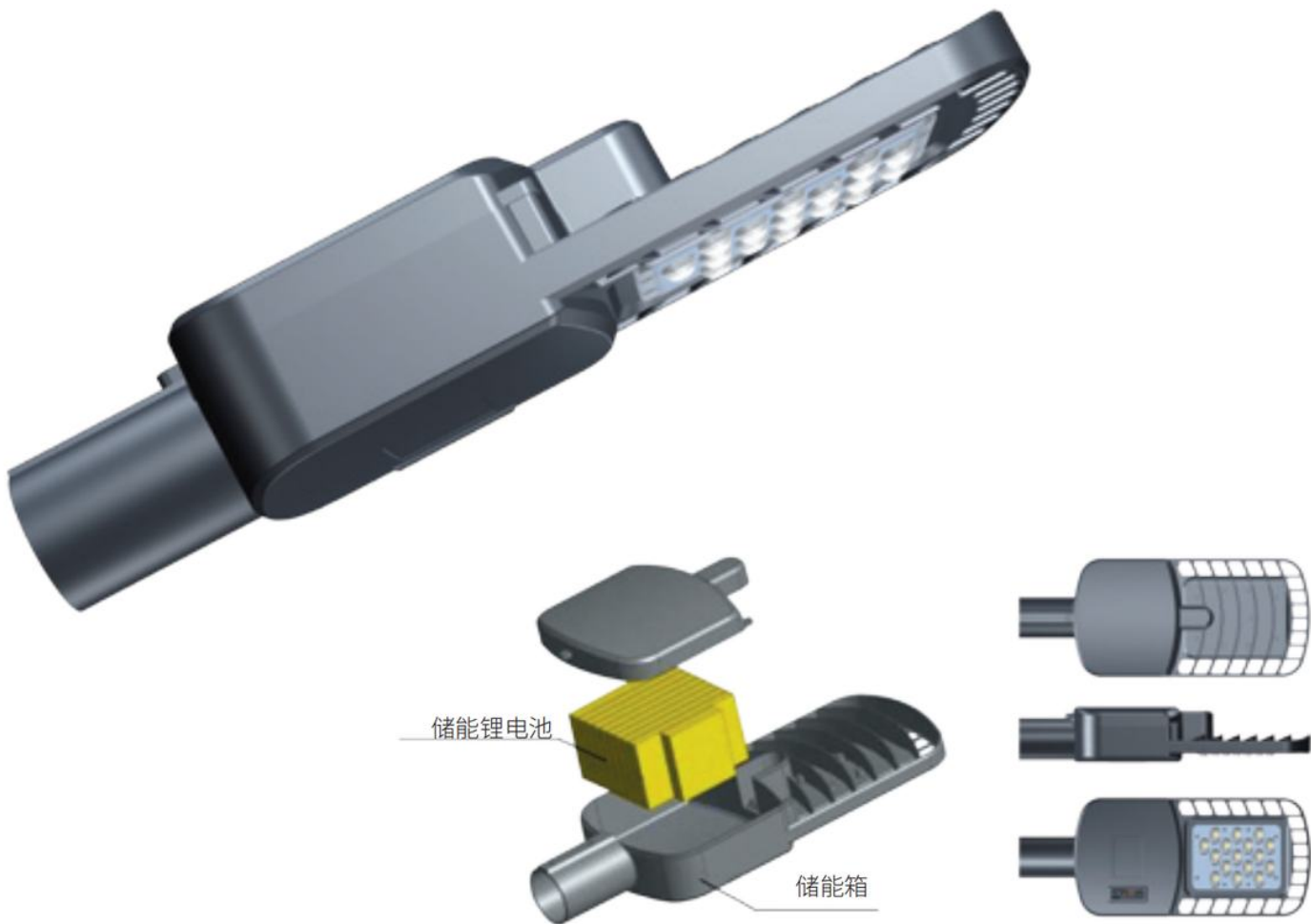
- 应用 MPPT 太阳能充电技术，显著提高太阳能电池板的能量利用率。
- The application of MPPT solar charging technology can significantly improve the energy utilization of solar panels.

产品特点 Product features

- 远程调控
支持远程开关灯 / 调光及蓄电池、负载参数修改。
- 实时监测
实时监控各部件工作状态等数据，故障自动报警。
- remote control
Support remote switch / dimming and battery and load parameter modification.
- Real time monitoring
Real time monitoring of components working status and other data, automatic alarm failure.

锂电一体化灯具系列
LITHIUM ELECTRIC INTEGRATED LAMPS AND LANTERNS

型号: LDTYN-LDZ08701 型



产品特点 Product characteristic

- 模组采用进口或优质高亮度国产 LED 芯片，无紫外和红外线，光效更高、更稳定。
- 采用高导热性 LED 封装技术以及多腔体散热技术，有效降低灯具热阻，芯片结温可控制在 60℃ 以下，确保灯具芯片寿命更长。
- 采用超高导热系数的铝合金散热器，表面采用耐腐蚀超导热阳极着色氧化技术，确保 LED 光源产生的热量更快散发。
- 采用二次光学非成像透镜，确保灯具出光率高达 100%。
- 采用交流宽电压输入的稳压恒流驱动器，确保灯具适用于不同的国家和地区，功率因素高，谐波小。
- 灯具外形经专业美学设计，简洁、大方、时尚。

适用场合：

- 次干道、支路、广场、小区等。

- The mould adopts imported or high-quality high brightness domestic LED chip, no ultraviolet and infrared ray, the light efficiency is higher and more stable.
 - Mixer adopts the high thermal conductivity of LED packaging technology and multiple cavity cooling technology, effectively reduce the thermal resistance of lamps and lanterns, chip junction temperature can be controlled below 60 ℃ , ensure lamps and lanterns of chip longer life.
 - The ultra high thermal conductivity of the aluminum alloy radiator is used, and corrosion resistance superconducting thermal anode coloring oxidation technology is used on the surface to ensure faster heat emission from the LED light source.
 - The second optical non-imaging lens is used to ensure the luminescence rate of the luminaire up to 100%.
 - The voltage regulator constant current actuator with wide ac voltage input ensures that the luminaire is applicable to different countries and regions with high power factor and low harmonics.
 - The appearance of the foremost luminaire is designed by professional aesthetic design, which is concise, generous and fashionable.
- Application:
- Throughout the subthoroughfares, branches, squares, districts, etc.



型号: LDTYN-LDZ08801 型



型号: LDTYN-LDZ08802 型



型号: LDTYN-LDZ08803 型



型号: LDTYN-LDZ08804 型

技术参数 Technical Parameters

功率 (W)	锂电池 (AH)	色温	光效 lm/w	寿命 (Hrs)
10	12	3000K-6500K	130	50000
15	24		130	50000
20	36		130	50000
30	48		130	50000
40	60		130	50000
50	72		130	50000
60	84		130	50000



型号: LDTYN-08801 型 高度 :5-8m 光源: LED

一体式太阳能路灯
ONE-PIECE SOLAR STREET LIGHT

型号: LDTYN-LDZ08901 型



产品特点 Product characteristic

一体式太阳能路灯融合了当今最佳绿色能源组合 (太阳能、半导体 LED 光源、锂电池)。运用了微控制器, 热红外线人体感应等多项优秀实用控制技术, 结合简约的一体化结构设计, 完美的实现低功耗、高亮度、长寿命、免维护等多种性能要求, 同时防水散热性能也非常好。

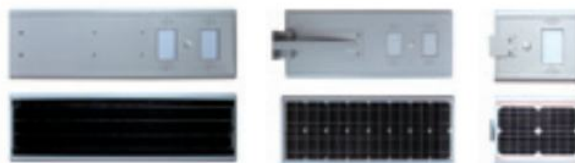
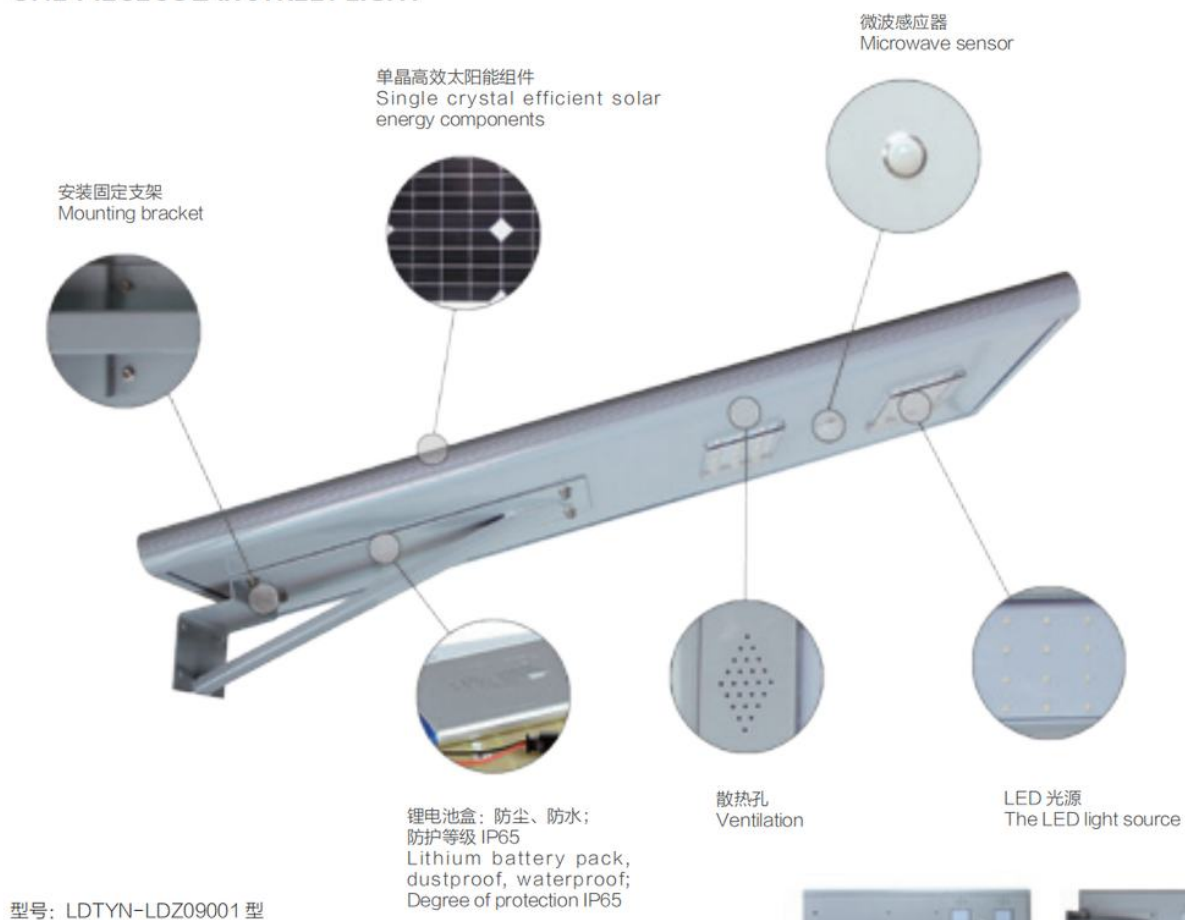
- 一体化设计, 简约、时尚、轻便、实用;
 - 采用太阳能供电节约电能, 保护地球资源;
 - 采用人体红外感应控制技术, 人来灯亮, 人走灯暗, 延长照明时间;
 - 采用高容量长寿命锂电池, 确保产品的使用寿命;
 - 无需拉线, 安装极其方便;
 - 防水结构, 安全可靠;
 - 可扩展定时、声控等其它功能;
 - 采用模块化设计理念, 便于安装、维护、维修;
 - 采用合金材料作为结构主体, 具有良好的防锈、防腐蚀功能;
- 适用范围: 偏远山区、乡村小道、旅游野外临时照明、学校、小区、庭院照明等各种阳光充足的场所。

The integrated solar street lighting combines today's best green energy portfolio (solar energy, semiconductor LED light source, lithium battery). With the use of micro controller, thermal infrared human induction and a number of excellent practical control technology, combined with a simple integrated structure design, the perfect realization of low power, high brightness, long life, maintenance free and other performance requirements, at the same time waterproof and heat dissipation performance is very good.

- The integrated design is simple, fashionable, light and practical.
 - Solar power is used to save energy and protect the earth's resources.
 - Adopt the infrared induction control technology of the human body, people come to light, people walk the lamp dark, extend the lighting time;
 - Adopt high capacity long life lithium battery to ensure the service life of the product.
 - Without drawing line, installation is very convenient.
 - Waterproof structure, safe and reliable;
 - It can expand the timing, sound control and other functions.
 - The modular design concept is adopted to facilitate installation, maintenance and repair.
 - The alloy material is used as the main body of the structure and has good functions of rust prevention and corrosion prevention.
- Scope of application: remote mountainous areas, rural roads, temporary outdoor tourism lighting, schools, residential areas, courtyard lighting and other sunny places.

一体式太阳能路灯

ONE-PIECE SOLAR STREET LIGHT



型号: LDTYN-09001 型 高度: 5-8m 光源: LED



型号: LDTYN-09002 型 高度: 5-8m 光源: LED

一体式太阳能路灯

ONE-PIECE SOLAR STREET LIGHT



型号：LDTYN-LDZ09101 型

型号：LDTYN-LDZ09102 型

型号：LDTYN-LDZ09103 型

产品特点 Product characteristic

- 首创一体化设计，简约、时尚、轻便、实用；
- 采用太阳能供电节约电能，保护地球资源；
- 采用人体红外感应控制技术，人来灯亮，人走灯暗，延长照明时间；
- 采用高容量长寿命锂电池，确保产品的使用寿命；
- 无需拉线，安装极其方便；
- 防水结构，安全可靠；
- 可扩展定时、声控等其它功能；
- 采用模块化设计理念，便于安装、维护、维修；
- 采用合金材料作为结构主体，具有良好的防锈、防腐蚀功能；

适用范围：偏远山区、乡村小道、旅游野外临时照明、学校、小区、庭院照明等各种阳光充足的场所。

- First integrated design, simple, fashionable, light and practical.
- Solar power is used to save energy and protect the earth's resources.
- Adopt the infrared induction control technology of the human body, people come to light, people walk the lamp dark, extend the lighting time;
- Adopt high capacity long life lithium battery to ensure the service life of the product.
- No need to pull wires, installation is very convenient.
- Waterproof structure, safe and reliable;
- Extensible timing, voice control and other functions.
- Adopt modular design concept to facilitate installation, maintenance and repair.
- Alloy material is used as the main body of the structure. It has good functions of rust prevention and corrosion prevention.

Scope of application: remote mountainous areas, rural roads, tourism field temporary lighting, schools, residential areas, courtyard lighting and other sunny places.



型号: LDTYN-09201 型 高度 :5-8m 光源: LED



型号: LDTYN-09202 型 高度 :5-8m 光源: LED



型号: LDTYN-09203 型 高度 :5-8m 光源: LED

型号: LDTYN-09301 型 高度 :6-10m 光源: LED



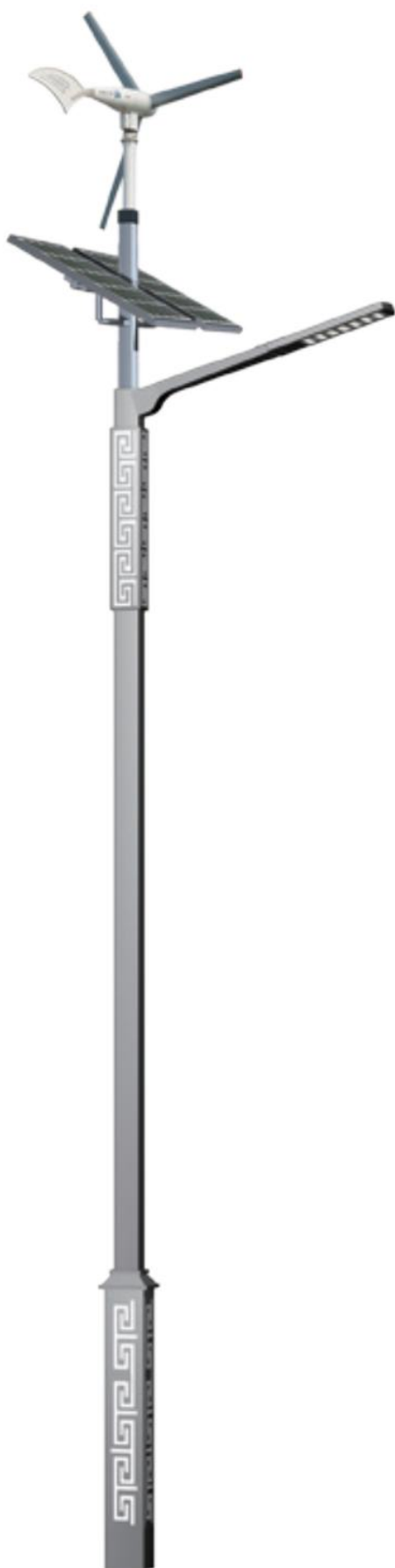




型号: LDTYN-09501 型 高度 :6-10m 光源: LED



型号: LDTYN-09502 型 高度 :6-10m 光源: LED



型号: LDTYN-09601 型



Solar scenery complementary lamps

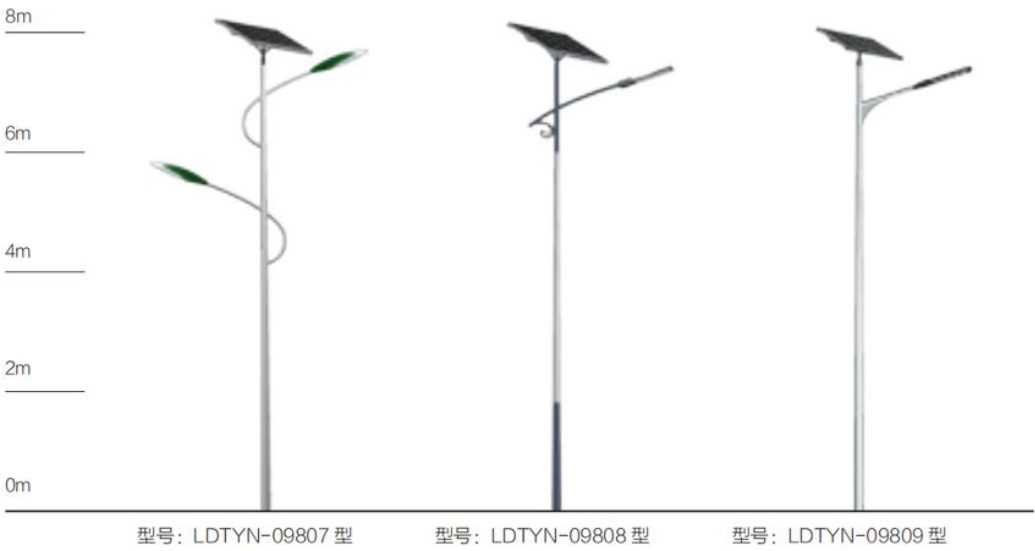
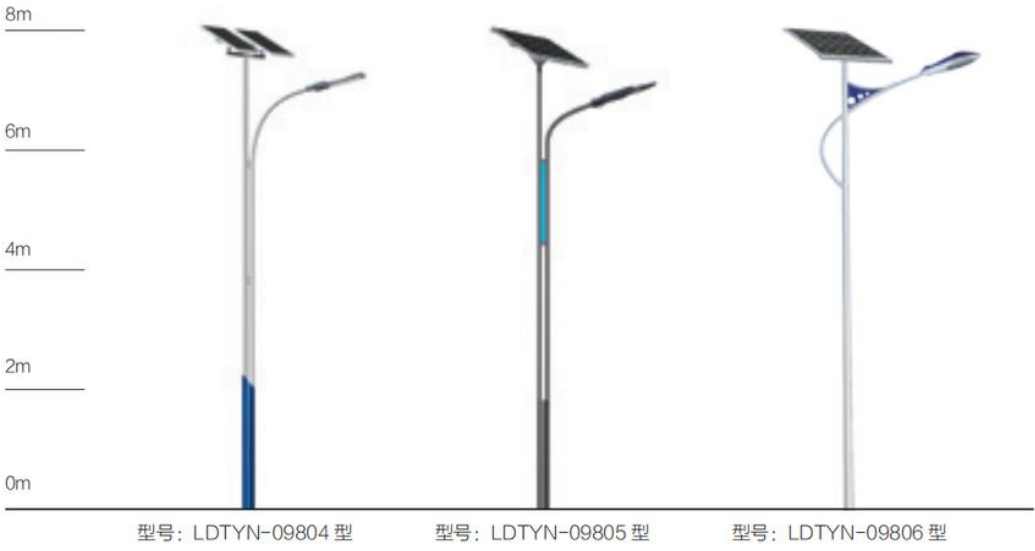
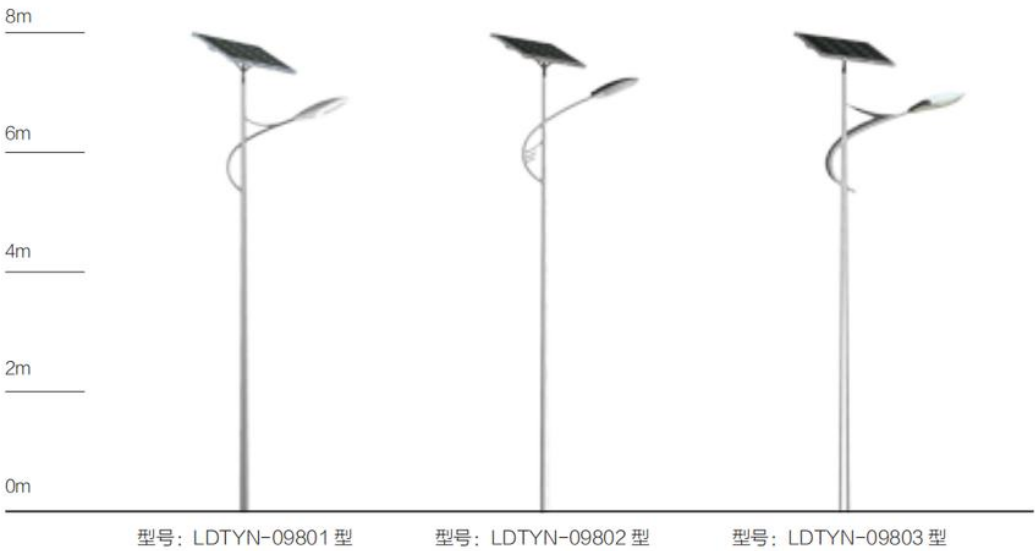
太阳能风光互补路灯

- 光源离地高度: 6~10m
- 风机: 400W
- 适用光源: 大功率 LED
- 太阳能电池: 高转换率单晶硅或多晶硅太阳能电池组件
- 蓄电池: 全密封免维护铅酸蓄电池
- 控制系统: 微型电脑智能控制
- 照明时间: 8~10 小时
- 适用地区: 年日照时间大于 2200 小时的地区
- 环境温度: -20 度 ~60 度
- 灯杆材质: 为优质钢材, 表面热镀锌后喷塑处理
- Light source height from the ground: 6-10 m
- Fan: 400 w
- Applicable light source: high power LED
- Solar cells: high-conversion-rate mono-crystalline silicon or polycrystalline silicon solar cell components
- Battery: fully sealed maintenance-free lead-acid batteries
- Control system: microcomputer intelligent control
- Lighting time: 8 to 10 hours
- Applicability: sunshine time is more than 2200 hours of region
- Ambient temperature: - 20 degrees to 60 degrees
- Light pole material: for the high quality steel, powder coating after hot dip galvanized coating



型号: LDTYN-09701 型 高度 :5-8m 光源: LED







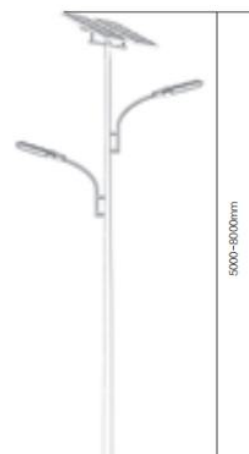
型号: LDTYN-09901 型 高度: 5-8m 光源: LED



型号: LDTYN-09902 型 高度: 5-8m 光源: LED



型号: LDTYN-10001 型

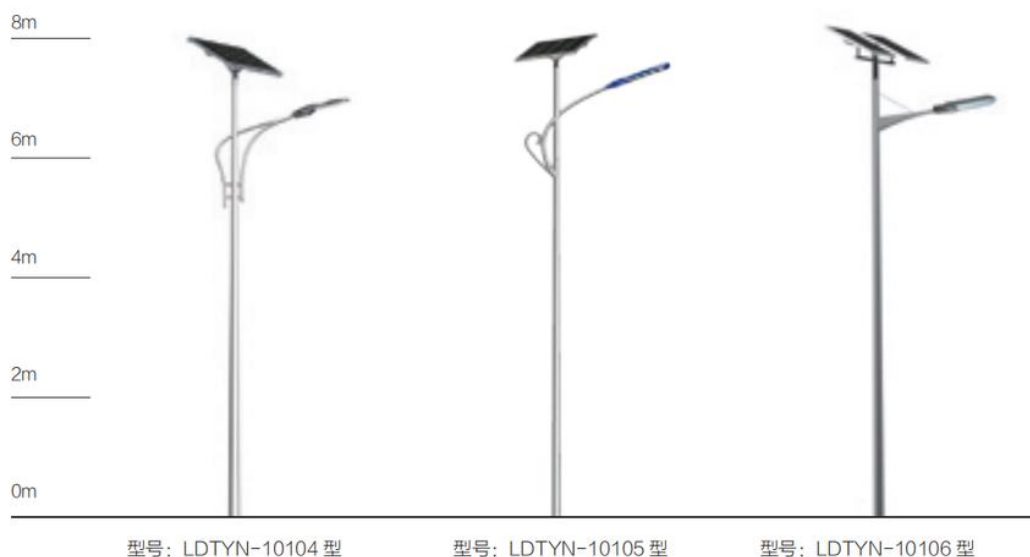


Solar lamps

太阳能路灯

- 光源离地高度: 5-8m
- 适用光源: 大功率 LED
- 太阳能电池: 高转换率单晶硅或多晶硅太阳能电池组件
- 蓄电池: 全密封免维护铅酸蓄电池
- 控制系统: 微型电脑智能控制
- 照明时间: 8-10 小时
- 适用地区: 年日照时间大于 2200 小时的地区
- 环境温度: -20 度 -60 度
- 灯杆材质: 为优质钢材, 表面热镀锌后喷塑处理
- Light source height from the ground: 5-8 m
- Applicable light source: high power LED
- Solar cells: high-conversion-rate mono-crystalline silicon or polycrystalline silicon solar cell components
- Battery: fully sealed maintenance-free lead-acid batteries
- Control system: microcomputer intelligent control
- Lighting time: 8 to 10 hours
- Applicability: sunshine time is more than 2200 hours of region
- Ambient temperature: - 20 degrees to 60 degrees
- Light pole material: for the high quality steel, powder coating after hot dip galvanized coating





Solar lamps

太阳能路灯

- 光源离地高度: 5-8m
- 适用光源: 大功率 LED
- 太阳能电池: 高转换率单晶硅或多晶硅太阳能电池组件
- 蓄电池: 全密封免维护铅酸蓄电池
- 控制系统: 微型电脑智能控制
- 照明时间: 8-10 小时
- 适用地区: 年日照时间大于 2200 小时的地区
- 环境温度: -20 度 -60 度
- 灯杆材质: 为优质钢材, 表面热镀锌后喷塑处理

- Light source height from the ground: 5-8 m
- Applicable light source: high power LED
- Solar cells: high-conversion-rate mono-crystalline silicon or polycrystalline silicon solar cell components
- Battery: fully sealed maintenance-free lead-acid batteries
- Control system: microcomputer intelligent control
- Lighting time: 8 to 10 hours
- Applicability: sunshine time is more than 2200 hours of region
- Ambient temperature: - 20 degrees to 60 degrees
- Light pole material: for the high quality steel, powder coating after hot dip galvanized coating



型号: LDTYN-10201 型 高度 :5-8m 光源: LED



型号: LDTYN-10202 型 高度 :5-8m 光源: LED



型号: LDTYN-10301 型 高度:5-8m 光源: LED



型号: LDTYN-10302 型 高度:5-8m 光源: LED



型号: LDTYN-10303 型 高度:5-8m 光源: LED



型号: LDTYN-10304 型 高度:5-8m 光源: LED



型号: LDTYN-10401 型 高度 :5-8m 光源: LED



型号: LDTYN-10402 型 高度 :5-8m 光源: LED



型号: LDTYN-10403 型 高度 :5-8m 光源: LED



型号: LDTYN-10404 型 高度 :5-8m 光源: LED

型号: LDTYN-10501 型 高度 :5-8m 光源: LED





型号: LDTYN-10601 型

型号: LDTYN-10602 型

型号: LDTYN-10603 型



型号: LDTYN-10604 型

型号: LDTYN-10605 型

型号: LDTYN-10606 型



型号: LDTYN-10607 型

型号: LDTYN-10608 型

型号: LDTYN-10609 型



Solar lamps

太阳能路灯

- 光源离地高度: 5-8m
- 适用光源: 大功率 LED
- 太阳能电池: 高转换率单晶硅或多晶硅太阳能电池组件
- 蓄电池: 全密封免维护铅酸蓄电池
- 控制系统: 微型电脑智能控制
- 照明时间: 8-10 小时
- 适用地区: 年日照时间大于 2200 小时的地区
- 环境温度: -20 度 -60 度
- 灯杆材质: 为优质钢材, 表面热镀锌后喷塑处理

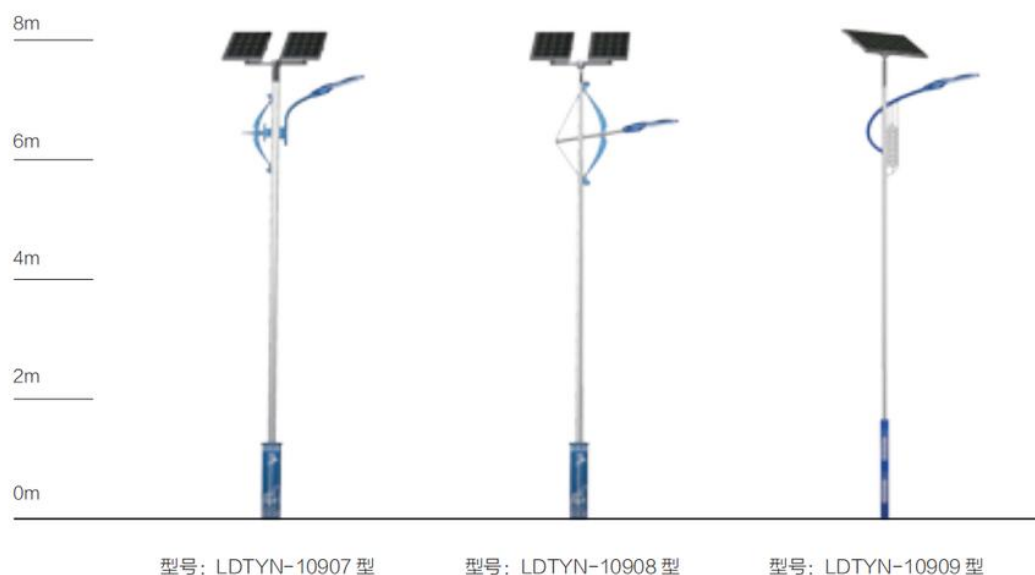
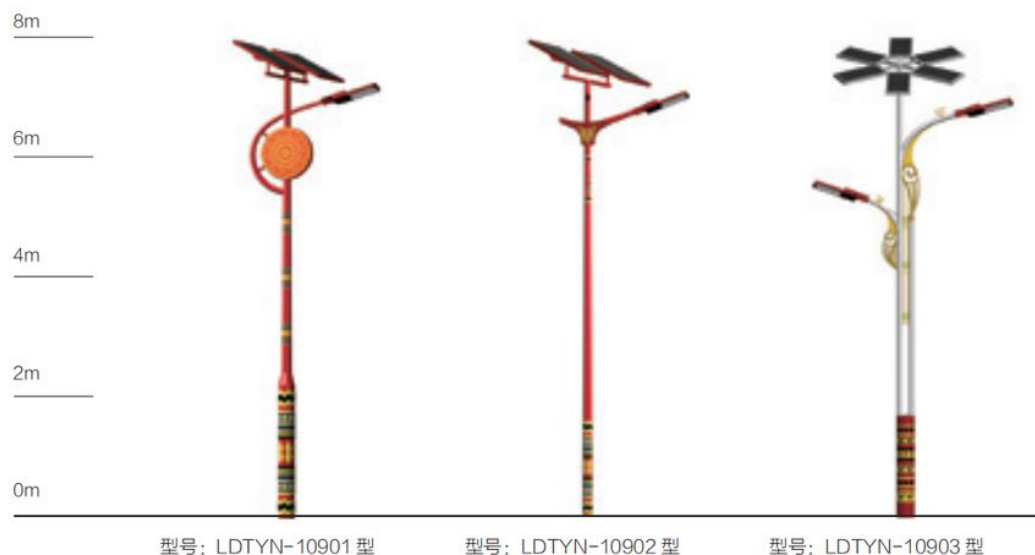
- Light source height from the ground: 5-8 m
- Applicable light source: high power LED
- Solar cells: high-conversion-rate mono-crystalline silicon or polycrystalline silicon solar cell components
- Battery: fully sealed maintenance-free lead-acid batteries
- Control system: microcomputer intelligent control
- Lighting time: 8 to 10 hours
- Applicability: sunshine time is more than 2200 hours of region
- Ambient temperature: - 20 degrees to 60 degrees
- Light pole material: for the high quality steel, powder coating after hot dip galvanized coating



型号: LDTYN-10801 型 高度 :5-8m 光源: LED



型号: LDTYN-10802 型 高度 :5-8m 光源: LED





Solar lamps

太阳能路灯

- 光源离地高度：5-8m
- 适用光源：大功率 LED
- 太阳能电池：高转换率单晶硅或多晶硅太阳能电池组件
- 蓄电池：全密封免维护铅酸蓄电池
- 控制系统：微型电脑智能控制
- 照明时间：8-10 小时
- 适用地区：年日照时间大于 2200 小时的地区
- 环境温度：-20 度 -60 度
- 灯杆材质：为优质钢材，表面热镀锌后喷塑处理
- Light source height from the ground: 5-8 m
- Applicable light source: high power LED
- Solar cells: high-conversion-rate mono-crystalline silicon or polycrystalline silicon solar cell components
- Battery: fully sealed maintenance-free lead-acid batteries
- Control system: microcomputer intelligent control
- Lighting time: 8 to 10 hours
- Applicability: sunshine time is more than 2200 hours of region
- Ambient temperature: - 20 degrees to 60 degrees
- Light pole material: for the high quality steel, powder coating after hot dip galvanized coating



型号: LDTYN-11001 型



Solar lamps

太阳能路灯

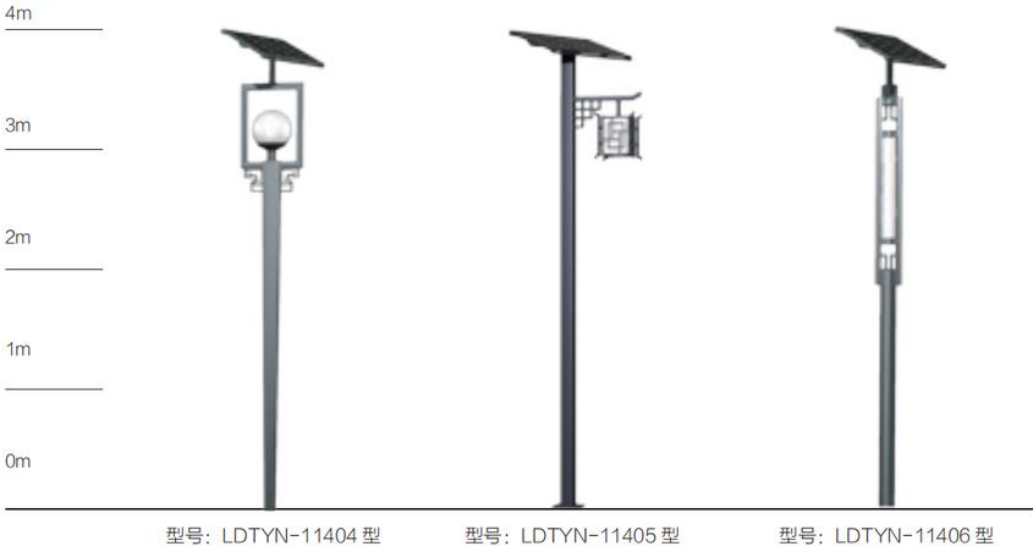
- 光源离地高度: 5-8m
- 适用光源: 大功率 LED
- 太阳能电池: 高转换率单晶硅或多晶硅太阳能电池组件
- 蓄电池: 全密封免维护铅酸蓄电池
- 控制系统: 微型电脑智能控制
- 照明时间: 8-10 小时
- 适用地区: 年日照时间大于 2200 小时的地区
- 环境温度: -20 度 -60 度
- 灯杆材质: 为优质钢材, 表面热镀锌后喷塑处理
- Light source height from the ground: 5-8 m
- Applicable light source: high power LED
- Solar cells: high-conversion-rate mono-crystalline silicon or polycrystalline silicon solar cell components
- Battery: fully sealed maintenance-free lead-acid batteries
- Control system: microcomputer intelligent control
- Lighting time: 8 to 10 hours
- Applicability: sunshine time is more than 2200 hours of region
- Ambient temperature: - 20 degrees to 60 degrees
- Light pole material: for the high quality steel, powder coating after hot dip galvanized coating

型号: LDTYN-11201 型 高度 :5-8m 光源: LED



型号: LDTYN-11301 型 高度:3-4m 光源: LED







型号: LDTYN-11501 型 高度: 3-4m 光源: LED



型号: LDTYN-11502 型 高度: 3-4m 光源: LED



型号: LDTYN-11601 型



Solar garden lamp

太阳能庭院灯

- 光源离地高度: 3-4m
- 适用光源: LED
- 太阳能电池: 高转换率单晶硅或多晶硅太阳能电池组件
- 蓄电池: 全密封免维护铅酸蓄电池
- 控制系统: 微型电脑智能控制
- 照明时间: 8-10 小时
- 适用地区: 年日照时间大于 2200 小时的地区
- 环境温度: -20 度 -60 度
- 灯杆材质: 为优质钢材, 表面热镀锌后喷塑处理
- Light source height from the ground: 3-4 m
- Applicable light source: LED
- Solar cells: high-conversion-rate mono-crystalline silicon or polycrystalline silicon solar cell components
- Battery: fully sealed maintenance-free lead-acid batteries
- Control system: microcomputer intelligent control
- Lighting time: 8 to 10 hours
- Applicability: sunshine time is more than 2200 hours of region
- Ambient temperature: - 20 degrees to 60 degrees
- Light pole material: for the high quality steel, powder coating after hot dip galvanized coating





Solar garden lamp

太阳能庭院灯

- 光源离地高度: 3-4m
- 适用光源: 大功率 LED
- 太阳能电池: 高转换率单晶硅或多晶硅太阳能电池组件
- 蓄电池: 全密封免维护铅酸蓄电池
- 控制系统: 微型电脑智能控制
- 照明时间: 8-10 小时
- 适用地区: 年日照时间大于 2200 小时的地区
- 环境温度: -20 度 -60 度
- 灯杆材质: 为优质钢材, 表面热镀锌后喷塑处理

- Light source height from the ground: 3-4 m
- Applicable light source: high power LED
- Solar cells: high-conversion-rate mono-crystalline silicon or polycrystalline silicon solar cell components
- Battery: fully sealed maintenance-free lead-acid batteries
- Control system: microcomputer intelligent control
- Lighting time: 8 to 10 hours
- Applicability: sunshine time is more than 2200 hours of region
- Ambient temperature: -20 degrees to 60 degrees
- Light pole material: for the high quality steel, powder coating after hot dip galvanized coating



型号: LDTYN-11801 型 高度 :3-4m 光源: LED



型号: LDTYN-11802 型 高度 :3-4m 光源: LED



型号: LDTYN-11901 型



型号: LDTYN-11902 型



型号: LDTYN-11903 型



型号: LDTYN-11904 型



型号: LDTYN-11905 型



型号: LDTYN-11906 型



型号: LDTYN-12001 型



型号: LDTYN-12002 型



型号: LDTYN-12003 型



型号: LDTYN-12004 型



型号: LDTYN-12005 型



型号: LDTYN-12006 型



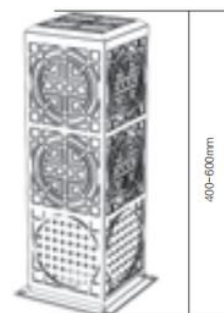
型号: LDTYN-12107 型



型号: LDTYN-12108 型



型号: LDTYN-12109 型



型号: LDTYN-12201 型

Solar lawn light

太阳能草坪灯

结构特点 Structural characteristics

草坪灯不是连续的照明方式，但注重光产生的突出效果。主要用于草坪公园、旅游景点的树木或角落部分做出点缀性照明。

Lawn lamp doesn't apply continuous illumination method, but it emphasizes the extrude effect of light. It is mainly used for decorating lawns, trees and corners in the scenic spots.





型号：LDTYN-12301 型

太阳能壁灯
SOLAR WALL LIGHT

- 全新锂电，容量大寿命长
- 太阳能光伏充电，0 电费
- 不用牵线，即装即用
- 安装简单，节能环保
- New lithium electricity, long life long life
- Solar photovoltaic charging, 0 electric charge
- Do not use a wire, that is to use
- Simple installation, energy saving and environmental protection

技术参数 Technical parameter

产品型号	Product model	TYN-BD-20W	TYN-BD-30W	TYN-BD-40W
额定功率	Rated power	20W	30W	40W
色温	Color temperature	3000K-6000K	3000K-6000K	3000K-6000K
光效	Light luminous efficiency	130LM/W	130LM/W	130LM/W
功率因数	Power factor	≥ 95%	≥ 95%	≥ 95%
防护等级	Protection level	IP66	IP66	IP66
初始光通量	Initial luminous flux	3200lm-3600lm	4800lm-5100lm	6400lm-6800lm
安装管径	Installation pipe diameter	Φ 76mm	Φ 76mm	Φ 76mm
连续阴雨天	Continuous rainy day	3-7 days	3-7 days	3-7 days
每天亮灯时间	Lighting time	2-10H	2-10H	2-10H
蓄电池规格	Battery specification	15AH	25AH	34AH
太阳能板	Solar panel	50W	50W	80W
控制方式	Control mode	Lighting controlled intelligent controller		
适用范围	Range of application	Road		





型号: LDTYN-12401 型



型号: LDTYN-12402 型



型号: LDTYN-12403 型



型号: LDTYN-12404 型



型号: LDTYN-12405 型

一体化太阳能杀虫灯
INTEGRATION OF SOLAR INSECTICIDAL LAMP

太阳能杀虫灯采用了现代高新技术，把太阳能转换成电能，利用昆虫趋光习性所产生的反应行为，以相应波长的光波诱至高压电网击杀，达到消灭成虫目的。它是集害虫诱杀、测报、种类调查于一体的新能源植保器械，是物理防治最为理想的选择。

Solar insecticidal lamp adopts the modern high technology, the solar energy into electricity, using insect phototaxis behavior generated by reaction behavior, with the corresponding wavelength of light waves to lure high-voltage grid kill, kill adult. It is integrated with the research on pest traps, telemetry, new energy plant protection devices, is the most ideal choice for physical control.



型号：LDTYN-12501 型

型号：LDTYN-12502 型