100W

ALL-IN-ONE
SOLAR LED
STREET LIGHT
SPECIFICATION
INTRODUCTION:

The All-in-One solar LED street light is the newest technology for solar street lights. With its all-in-one design, its solar panel, LED lamp, lithium battery and charging controller are all integrated into one single body. With this new technology, there is no need for cables or any digging of underground spaces to store its battery. Installation can also be done very quickly. Additionally, this solar LED street light is comprised of the latest intelligent lighting system. The lamp works automatically based on the time of day. It has three settings including a motion sensor, time-control and internet control, to meet different requirements. There will be no need for unnecessary settings after installation. Compared to traditional solar street lights, it is much easier to install and transport, with a longer lifespan than lead-acid batteries and is also cheaper to maintain.

PRODUCT STRUCTURE
**UNIQUE SALES POINT:**

1. **Designed in Germany**
   All of our products are designed by our R&D team in Germany. They are all solo patented in the market, which is great for your brand promotion and price campaign.

2. **Monocrystalline Solar Panel**
   We use class A monocrystalline solar panel as our charging source. Its 24% charging efficiency is much higher than normal monocrystalline (17%) or polycrystalline.

3. **LM80 PHILIPS LED**
   High brightness and low light decay LM80 certified Philips LED is adopted for our lamp, which is famous LED brand all over around the world. It can still stay 99.3% brightness after 10000 hours.

4. **Lithium Battery**
   The level-A standard LiFePO4 lithium battery is used for our lamp. It not only has a 5 times longer lifespan than lead-acid batteries but it also has charging depth, high/low temperature protection. It increases the lifespan of a battery to 12 years.

5. **MPPT Charging Controller**
   As the heart of solar LED street light, the controller has played an important role. We use a MPPT(Maximum Power Point Tracking) charging controller as our solution. Its charging efficiency is 20%-30% higher than a PWM solution. It also has protection against over-current, over-voltage, over-heating for a long lifespan.

6. **Intelligent Lighting**
   Our lamp has used the latest intelligent lighting system. The lamp can work automatically based on day and night. It has three working ways(Motion Sensor/Time Control/Internet Control) according to different requirements. There will be no more setting after your installation.
All of our designs are designed with an easy-plug, which makes it easy to replace parts (battery, controller, LED module). With this easy maintenance design, it greatly decreases the maintenance labor cost and highly increase the rate of investment of projects.

A swing frame structure is designed for our lamp, which is highly resistant to wind attach and highly guarantee its safety since it is installed in high pole. It can be available for 176km/h wind.

For solar street light, anti-theft is an important factor that is considered. Our lamps are all designed with solo anti-theft screws. Without our specific tool, it is impossible to steal our lamp from the pole.

The seaside is a popular place for solar street light. Rust is however a concerning factor which can decrease the lifespan of a solar street light. Our lamp adopts all aluminum material to achieve an anti-rust solution for application by the seaside.
ALL IN ONE STREET LIGHT SPECIFICATIONS

Model NO. DEL-DN4-100

**LIGHTING**

- Efficiency: 200-240LM/W
- LED Chip: Philips 3030 (certified per IESNA LM-80 TM-21)
- CCT: 3000K/4000K/5000K/5700K
- Life span: 50,000 hours (12 years)
- Max power: 100W
- Nominal power: 50W
- Typical Luminous Flux: 10000-12000LM
- Beam angle: 80°x150°
- Working way: Motion Sensor/Time Schedule

**PHOTOVOLTAIC PANEL**

- Technology: Mono-crystalline photovoltaic panels
- Power of PV Module: 150Wp
- Lifespan: 25 years

**BATTERY**

- Technology: LiFePO4 (Lithium Iron Phosphate)
- Lithium Battery: 640WH
- Autonomy: 3 Rainy days
- Lifespan: 12 years

**CHARGING CONTROLLER**

- Technology: MPPT (Maximum Power Point Tracking)
- Lifespan: 12 years

**GENERAL**

- Dimension: 1027*1117*84MM
- Weight: 22.7KG
- IP: IP66
- Working Temperature: -20°C to +60°C
- Recommended Installation Height: 8-10M
- Recommended Installation Distance: 30-40M
- Recommended Diameter of Top mounting: 55-65MM

**LUX DATA**

- Average Lux:
  - 10m: 19 lux
  - 9m: 23 lux
  - 8m: 30 lux

**PRODUCT PICTURE**

**PRODUCT SIZE**

DATA SHEET