

## **FAQ (Frequently Asked Questions)**

### **1. Why should we install Solar streetlight?**

Grid based outdoor lights require expensive cabling which is a prohibitive cost in many locations. Moreover, they are prone to blackouts on power outage, continue to draw electricity thus producing greenhouse gases and high electricity bills. Solar outdoor lights are a wireless solution which is both environmentally friendly and reliable.

### **2. How does one get light on cloudy days?**

On a sunny day, the battery requires 5 hours to charge to its fullest and provide dusk to dawn operation. However on a cloudy day, the solar panel output is 30-40% of its peak . Our >95% efficient charge controller combined with no wire losses result in the battery getting all the solar panel output even on a cloudy day. Our proprietary dimming feature makes sure that the user gets 6 to 8hours of runtime on any cloudy day which we refer to as the Self Autonomy feature.

### **3. What is the relationship between wattage, lumen and lux?**

Light intensity from a luminary when measured at a point on the ground is in terms of lux which is lumen/area. This is the most important parameter as far as a customer is concerned. The goal of technology is to achieve the best lux with the lowest wattage or power consumption. We use 150lumen/Watt LED which is the most efficient in the world. The use of our high quality lenses results in 20% additional lux for the same LED lumen output.

### **4. How does the cost compare with other outdoor lighting solutions?**

In comparison with grid based LED lights, the savings associated with cabling costs and electricity charges provide an instant saving with the solar outdoor solution. When compared to external lead acid based solar outdoor lights with 2 day autonomy, the installed cost of our inbuilt lithium ion based system is typically 10 to 20% lower.

### **5. What is the product lifetime?**

IEC certified solar panel with a life span of more than 25 years, UL certified battery with a life span of more than 3 years and LM80 certified LED with a life span of more than 10 years accounts for the longevity of the product. Apart from this, the products have a warranty period of 1-2 years (depending upon the product) and are now UL certified.

**6. How does one take care of maintenance and repairs?**

The complete system is built with a plug and play design whereby any replacements of battery or electronic boards can be done on site. The only tool required is a screwdriver.

**7. What are the special features in Sunway?**

Theft and water proof, Self autonomy, zero maintenance, Self installable, Dusk to Dawn operation