



Solar Powered Street / Perimeter Light

S9 Series

The S9 solar powered streetlight is the ideal renewable energy solution for municipal, commercial and private use. It employs latest technology and offers an effective low cost alternative to conventional street and perimeter lighting.

The unit is easy to install, versatile in application and reliable in operation. The S9 is powered solely by the sun and is fully operational even in overcast weather conditions.



Specifications

LIGHT OUTPUT: The lamp utilizes a 9 Watt high efficiency, long life, compact fluorescent tube as light source. Power consumption is much lower than that of an ordinary light bulb but still gives a considerable light output of approximately 4.5 lux at a distance of 6 meters.



CONSTRUCTION: The main body, gear compartment, lid and bulkhead are manufactured from high-pressure injected U.V. stabilized polypropylene. The bowl is made of high-pressure injected U.V. stabilized high impact acrylic. The five clips, three on the bowl and two on the gear compartment, are manufactured from stainless steel. The lamp compartment has an IP65 and the gear compartment an IP43 rating. The spigot entry clamps are manufactured from galvanized mild steel. The spigot or bottom entry adaptor is manufactured from die cast aluminum. The housing is ISO 9002 and SABS certified.

GASKET: The gasket is of silicone sponge fitted in a groove on the main body. The bowl has a tongue, which fits into the silicone sponge; when the bowl is dosed it will prevent the ingress of water, dust or insects. A rubber grommet shrouds the wires from the gear to lamp compartments to ensure the highest possible IP rating.

REFLECTOR SYSTEM: Specula high purity anodized aluminum, chemically brightened for maximum efficiency. The back reflector is shaped to reduce shine back into the lamp.

LAMP: The lamp utilizes a 9 Watt high efficiency long life compact fluorescent light (CFL), which has an operational life of more than 8000 hours. In this application it equates to a lamp life of 2.5 years. The CFL also has a high operational efficiency, so much so that the system only requires a 30 Watt solar module.

SOLAR MODULE: A 30 Watt crystalline solar module is used. Fully adjustable acetal mounting allows for the solar module to be quickly and easily positioned. The solar module has a life expectancy of 20-years.

BATTERY: A sealed, maintenance free, lead calcium battery is used in the solar streetlight. The battery is rated at 40 Amp/hour. Due to the low consumption of the CFL the battery is capable of operating the streetlight for 12 hours per night for five consecutive days without charge. These batteries have a life expectancy of 4 to 5 years.

CONTROL UNIT: The peak power-tracking unit is the heart of the system. Microprocessor controlled the regulator monitors temperature, solar panel voltage and battery voltage. It has a built in load disconnect, which in the event of low battery voltage will disconnect the load to protect the battery. The control unit is also responsible for turning the lamp on and off. It has a built in delay circuit, which prevents the lamp from turning on and off in the case of lightning.

DIMENSIONS (mm): Length: 854 Width: 269 Depth: 196 Mass: 24kg

NOTE: Specifications are subject to change without prior notification