



Self-sufficient streetlight with Solar and windpower



The Self-sufficient solar streetlights from RMS are well suited for regions where we have no power but also as an alternative for lighting streets, highways, and are also ideal for use in parking areas, cycle paths on industrial estates and parks. For the manufacture of the lamp body, the latest generation of LED technology has been used.

This technology has clear advantages: high efficiency compared to conventional lighting, long operating life of up to 100,000 hours and resistance to weather influences, temperature and vibrations.

This new technology generates little heat compared to conventional lighting. This saves a lot of energy and has the best efficiency compared to all other artificial light sources currently on the market. This technology not only saves plenty of money but also makes a considerable contribution towards protecting the environment and saving resources.

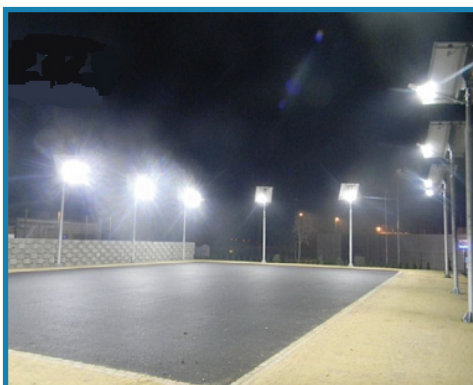
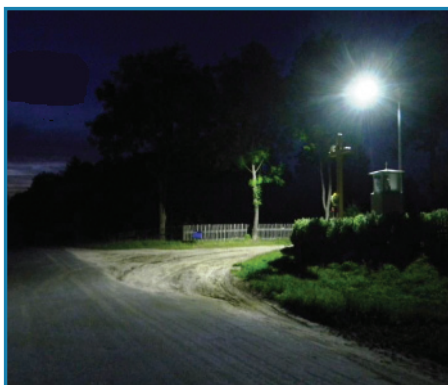
The LED diodes emit extremely bright, white light. This makes the shape and colour of objects easily recognisable. LED lighting also has a far longer operating life than other types of lighting, enabling cost savings on maintenance for many years. The applications available for LED lamps offer a new type of lighting.



Lighting times and configurations for lighting systems are heavily dependent on geographic locations and climatic conditions, and always have to be investigated and dimensioned to suite individual cases. Installed photovoltaic cells lose a maximum performance output of 10 % in 10 years and 20 % in 20 years of operation and are manufactured in accordance with the CEI/IEC61215 standard.

Technical description:

The electricity is generated by photovoltaic modules and (optionally) by a small wind turbine and is fed into the battery by the controller. The photovoltaic modules act as a sensor detecting the approach of dusk. As soon as the voltage drops in the module the controller turns the street lighting on, switches on the LED lighting and draws power from the charged batteries. As soon as the first rays of sun shine on the solar module and the voltage increases, the module starts charging the empty rechargeable batteries.





The system is very easy to set up and install. Since no wires or cables are required, the street lighting is independent and requires no power supply whatsoever; all it needs is just sun and wind for charging the batteries. All components are made of high-quality material and are designed to function optimally with each other, enabling us to offer our customers an ideal solution.

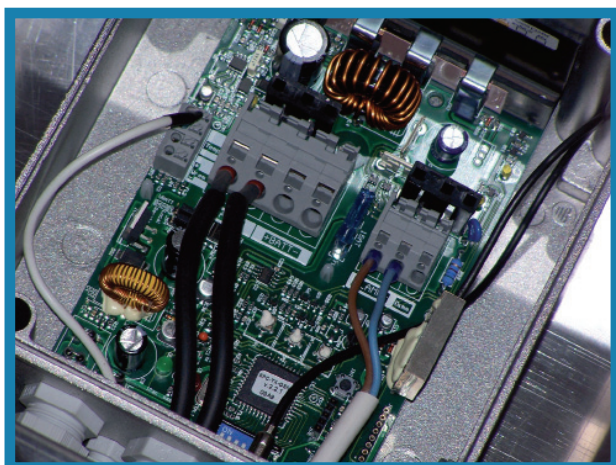
The electric controller protects the system against overcharging or excessive discharging of the battery. The integrated temperature sensor ensures an optimum charging cycle for the battery, no matter what the local weather is like. This gives the system a 5-day power reserve. However, this has to be taken into consideration in the design. Our street lighting can even regulate lighting intensity during the night. The street lighting can also be used in hotter climatic zones because they are suitable for outside temperatures of up to 55°C.



Technical data:

Self sufficient streetlight from RMS L (Light) oder H (Hybrid - Light and Windpower)

- Colour of light: white (5000 to 5500 K daylight)
- Lighting time: ca. 10 to 12 hours / day
- Autonomy: 1 to 2 days other 3 to 5 days
- The system's battery and controller are integrated in the head of the lamp mast



Specifications:

- Number of PV modules: 1 to 2 units
- Microcontroller + charger controller and temperature control: 1 unit
- With temperature sensor IP 65: 1 unit
- Lamp holder with LED lamp (10 W to 60 W) + LED control: 1 unit
- Clamp for the mast / holder lamp head: 1 unit
- Spare parts for the PV modules: 1 unit
- Galvanised holder: 1 unit
- Batteries GEL VRLA: 2 units
- Cable system: 1 unit
- Screws: 1 set
- Steel mast (galvanised) height 5-8 m

There can be fluctuations in data and parameters depending on geographic location and climatic conditions.