

Internationale Partnersuche

Business & Märkte Angebot

Advanced solar LED Lighting systems for street lighting and street furniture

Country of Origin: United Kingdom

Reference Number: BOUK20181219002

Summary

A UK company has developed an advanced intelligent solar lighting system that integrates into two of its products – a solar bollard and a rapid-mounted solar panel system for street and area lighting. It is the only such product on the market that is guaranteed to provide illumination from dusk to dawn in European climates. They are seeking distribution agreements for both products from companies working with street lighting or street furniture.

Description

Current solar energy panels attached to lighting sources in Europe are not able to provide consistent lighting due to the irregularity of sunlight, especially during the winter months.

A UK company has developed an intelligent solar energy capture system that can guarantee a working light powered from its panels, at a consistent level.

The uniquely-designed solar systems is comprised of an intelligent energy management system, with integrated PV (photo voltaic) panels, long-life batteries, motion-detecting PIRs (passive infrared sensors) and highly efficient LED lights.

The company's solar bollard has one LED that runs continuously at a low level to ensure that the bollard itself can be seen from a distance, and the other, a downlight reflector, is activated within a 5m range each side of the unit by one of the PIR sensors which illuminates the pathway.

As the bollard is solar powered by its own integrated PV panels, trenching and running costs associated with mains powered solutions are eliminated and maintenance costs are drastically reduced.

The bollard is extremely easy to install, with surface and roof mounting options.

The bollard is available in three housing material options to suit a range of applications; extruded aluminium, sustainable hardwood and performa-cast polymer. With both the aluminium and polymer versions offering a vast range of colour options, as well as the option of embossing the polymer housing, this versatile solution is perfect for any client and application.

The product is made up of various high quality, state of the art components:

Downlight Reflector %26 Lens - activated by the two side-facing PIR sensors, the downlight

reflector and integrated lens offer even illumination and a wide spread of light.

Integrated Solar PV Panels - four specially designed Solar PV panels are mounted into each side of the bollard ensuring daylight is captured from all angles throughout the day, thus maximising the power available at night.

Intelligent PIR Sensors - high quality motion sensors are mounted into each side of the bollard enabling pedestrian detection within a 10m range (5m each side of the unit)

Unique Marker Light - the LED acrylic marker light enables pedestrians to see the bollard from a distance thus increasing safety.

The UK company have also developed a rapid mount solar nano product, a solution that has been designed to enable quick and easy installation on to any existing lighting columns. Once installed the PV can be adjusted independently, allowing it to be angled with ease to ensure optimum solar capture.

Because this is a solar system, ease of installation is further enhanced due to there being no wiring, cables or trenching to connect to a mains system. There are also no running costs and maintenance costs are dramatically reduced.

The system includes an intelligent energy management system that optimises energy capture and continually monitors the batteries' condition to ensure year-round reliability. Prior to installation the controller can be programmed to suit requirements and a PIR sensor can also be incorporated to further conserve energy.

It is ideal for both temporary and long-term illumination, and suitable for various applications such as housing developments, walkways, car parks, residential areas and many more.

They are seeking companies or organisations that currently service street lighting companies or street furniture companies, to use the device via distribution agreement.

Advantages and Innovations

Advantages include:

- Easy to install systems
- Technologically advanced PV
- Intelligent energy management system (EMS)
- Guaranteed to work from dusk til dawn in northern European climate
- Eliminates any problems with time and cost constraints of laying cabling to access mains connection
- No running costs and maintenance costs are dramatically reduced.

Requested partner

Type: Industry

Activity of the partner: Distribution

Specific role of partner sought: Establishing distribution to street lighting or street furniture companies.