DRAGONS BREATH Tel 01646 600151

DBS901 Solar Street lighting system | path/walkway | residential | car park lighting | play areas | rural locations

PROGRAMMABLE

Each light contains a built-in smart solar controller, offering access to the power brightness and lighting times. These are set in our factory prior to dispatch. We provide the luminary to match localized requirements and needs.

MICROWAVE SENSOR

Each sensor covers a large 10m area; this offers a wider sensitive angle. Which is much more stable that traditional PIR sensors.

EXTERNAL SOLAR PANEL

Each LED light unit is fully rechargeable and fitted with a suitably selected solar panel. PV panels can be positioned in landscape or portrait orientation. Our UK designed and produced system is fully adjustable to match any 360° global horizon where the variation of different latitude or longitude needs can be maintained.

CONNECTION

Using MC4 male & female plugs, the LED lights are directly connected to the solar panel. This is a quick and easy method using high performance cables to reduce power drop.

COMPACT SYSTEM

Each LED lighting system is complete with microwave sensor control, battery and solar panel which are designed to match each LED light. This only needs to be connected to a suitable solar panel to charge the battery pack. These luminaries are designed for a quick and easy installation process. (Tamper resistant fixings can be added to match localized needs).
All equipment parts are usually positioned at top of columns using the unique DBS mounting system, this is designed to provide stability and maximum performance. Every DBS finished product is provided with a 5-year warranty built in.

Solar panels: @ 100,000 hours
LEDs @ 60,000 hours
Control equipment @ 22,000 hours
LifEPo4 batteries @ 50,000 hours

TECHNICAL PARAMETER

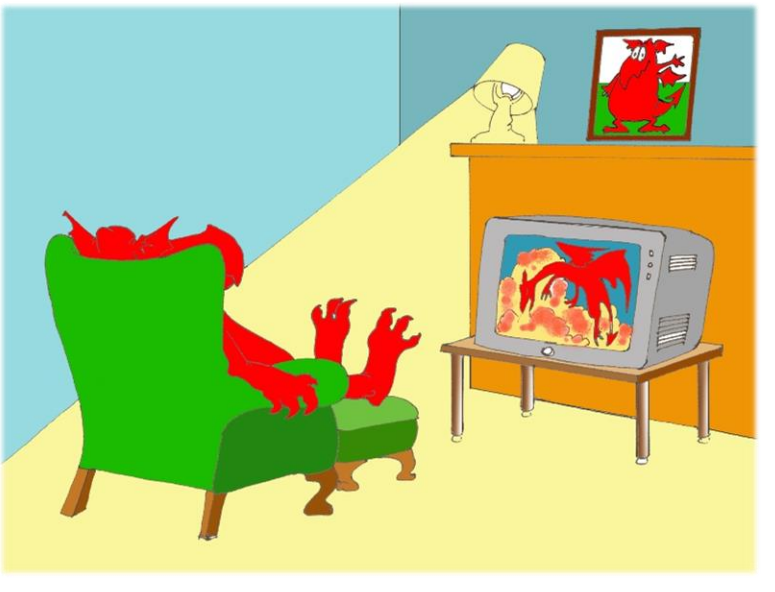
Model	LED type	LED Power	Lumens	Color temp	CRI	Battery capacity	Battery cycle life
DBS-901	90 x Philips SMD	960-1800lm	145lm/w	2700-6000K	>82	250-305WH	2000-3000

SOLAR PANEL

Voltage of PV	Power of PV	Cell type	Pole height
18V DC	115w	Mono/poly	3-5m

MATERIAL AND FINNISH

- Case material: ACD12 Aluminum die casting (100% recyclable).
- Finnish: Double layer of powder coated aluminum and PMMA
- Reflector beam angle: 140º horizontal 70º vertical
- IP67 | IK10



ADVANTAGES

- No maintenance requirements
- Lighting 365
- Easy connection
- Separate solar panel
- Built in microwave sensor
- Built in high quality solar panel controller
- External on/off switch
- Battery and controller positioned at top of luminary

INSTALLATION AND MOUNTING

- 60-114mm diameter column mounted
- Stainless steel bolt fixings
- MC4 Pre-cabled connections
- Mounting heights from 3-8m depending on illumination level required
- Rechargeable luminaries are delivered ready to install

FACTORY TIME SETTING

1. Length of each time block is adjustable from 0-15 hours
2. Brightness of each time block is adjustable from 0-100%
3. Sensor time is adjustable from 10-150 seconds

FACTORY SET ENERGY SAVING MODE: A

Time-1: = 12 hours @ 25% brightness with (microwave sensor function active) to run for 30s @ 100% or active until outside range of sensor @ 10m

FACTORY SET CONSTANT 100% MODE: B

Time-1: = 6 hours @ 25% brightness with (microwave sensor function active) to run for 30s @ 100% or active until outside range of sensor @ 10m
Then after 6 hours light goes into standby mode activated to 100% when pedestrians of vehicles activate microwave sensor.

FACTORY SET ENERGY SAVING MODE: C

Time-1: = Standby mode (LED light unit off until required)
Dusk until dawn operation (via microwave sensor function) active for 1 minute or until outside of 10m sensor range

The DBS901 solar lighting system has been designed to provide easy assembly to new or existing lamp posts. These can be angled to provide the maximum potential energy generated to illuminate at locations after dark. We offer this system in different formats to provide our customers with the ability to go off main 230v power supplies and rely on the Suns energy source.
We do this by offering the correct sized equipment matched to the location needs

1. Landscape solar panel lighting design
2. Portrait solar panel lighting design
3. Solar panels, kit can be orientated in portrait or landscape orientations
4. Kits include all items required to provide simple installation
5. LED luminaries are factory set by us prior to dispatch
6. System either in kit form or can be pre-assembled by us if required