

## DBS Multi-directional UPS solar lighting system

This equipment has been developed for areas that already have mains power lighting columns. This system will enable luminaries to operate all year around, only then using 25% mains power to run.

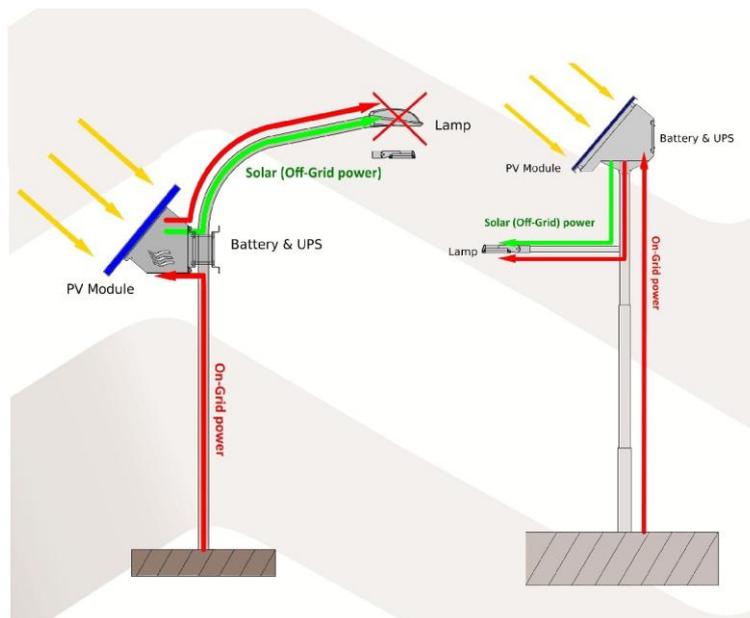
By offering mains power support to new lighting installations, it is possible to cut the energy usage by 75% p/a.

The solar panel is used as a method for energising the battery during the day. Then when it is time for the lighting system to operate, the battery powers the luminary.

If during the winter longer durations are required, the mains power then supplements the battery. This enables the luminary to work nonstop all year around from dusk until dawn.

By using this method, we can design a system to work for the same duration across the country in specific design packages. Used in the South of England, Midlands, North of England, and Scotland to provide maximum illumination each day.

Real time UPS lighting system. For old sodium style luminaries or new installations.



Existing installations can be adapted by changing old style orange glow sodium luminaries and replacing these with our low voltage LED's

Applications for DBS Multi-directional UPS solar lighting system

- |                    |                    |
|--------------------|--------------------|
| Community lighting | Farm lighting      |
| Path lighting      | Park lighting      |
| Wildlife lighting  | Walkway lighting   |
| Gate lighting      | Moorings & Marinas |
| Un-adopted areas   | Estates            |
| Footpaths          | Car Park lighting  |
| Signs and banners  |                    |
| Estates            |                    |

***Car Park Lights®***

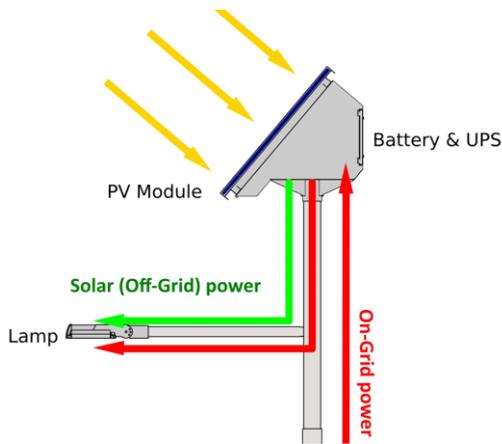
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*Tel: 01646 600151*

*E: [info@carparklights.co.uk](mailto:info@carparklights.co.uk)*

# UPS Solar Sign Lighting

DBS Multi-directional UPS solar lighting system



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LED Luminaire any application

## Lighting features

12v LED	85
Minimum CRI (colour rendering index)	4000-6000k
Colour temperature	Asymmetric for street/car park lighting
Optic	Batwing spread (12-42w)
LED's	145-170
LUM EFF (lm/W)	12-24 VDC
Power supply	dependant on luminaire used
Power consumption (W)	III (SELV)
Electrical insulation class	Automatic
Automatic charge control regulation	100%
Luminous flux	Control of heat -25° C ~ 60° C
LED thermal protection	matched to suit location (25 years life)
Solar panel	Lead acid battery (800-2000 cycles) matched to solar panel requirements
Battery capacity	76-114mm diameter columns
Fixing	IP65
Protection degree	12kg
Weight	36 months
Standard warranty	



BDS luminaire:

- Units will provide lighting from dusk until dawn. Operation time can be set to match requirements depending on location.  
This is a fully automated system.  
P.b batteries excluded from warranty

E.&O.E.



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