

Solar PV Systems

Dragon multi-directional solar streetlights

Dragon multi-directional solar powered car park lighting system

The Dragon multi-directional solar lighting system has been designed for remote locations where the sun's orbit across the sky is different to that of the light itself. This allows the installer to rotate the LED lighting unit to the position best suited. Then the solar panel can be permanently mounted on its pedestal to face south. These can be constructed and fixed to new or existing suitable columns. We provide this dragon multi-directional solar powered lighting system in two sizes with 3500k @ 1700-2040 lumens. This has been designed to be mechanically fixed quickly and effectively in under 30 minutes. This is manufactured from aluminium and tested to IP65. We can set these to reflect the optimum lumen performance which can be measured against locations up and down the country. Using high performance Bridgelux LED chip sets are powered by a li-ion (LiFePo4) battery pack to provide 2-3 days autonomy. Electronic controllers deliver power to the LED's using photocell technology to detect pedestrian movement. Providing background illumination from dusk @ 25%. The sensor within the light unit will detect pedestrian or vehicular movement, this will then trigger the controller to power 100% for 1 minute or until outside of sensor ranges of 10m. The light units should be affixed at 4-5m above ground allowing the solar panel to point near to south as possible. Each product has 5 years warranty.





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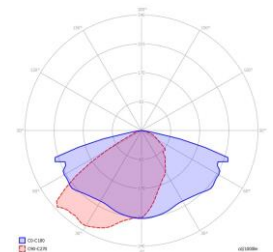
Dragon multi-directional solar streetlights

Dragon multi-directional technical values

15w LED Luminaire @ 2175lm for remote applications

Lighting features

12v LED	2175 Lm
Minimum CRI (colour rendering index)	85
Colour temperature	3000-4000k
Optic	Asymmetric for street/car park lighting
LED's	Batwing spread (12 x 2w)
Initial luminaries flux (lm)	2000- 2175
LUM EFF (lm/W)	145
Power supply	12 VDC
Power consumption (W)	15
Electrical insulation class	III (SELV)
Automatic charge control regulation	5-6 hours to fully charge battery
Autonomy	2-3 days
Luminous flux	100%
LED thermal protection	Control of heat -25° C ~ 60° C
Solar panel	150w Mono-crystalline (25 years life)
Battery	12v LifePo4
Battery discharge time	20-24 hours
Fixing	post diameter 89mm
Tilt angle	0°
Protection degree	IP65
Weight	45kg
Space between lights	12-18m
Size	850 x 430 x 120mm
Standard warranty	60 months



BDS luminary:

- Units will provide lighting from dusk at 100%.
- This is a fully automated system to provide light using the full capacity of solar irradiance available.

E.&O.E.



Solar PV Systems®
Dragon multi-directional solar car park lights
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