

Permanent Solar Lighting

Applications

Street lighting
Parks & recreation areas
Public areas
Bus stops and shelters
Car parks and perimeters
Marinas and harbours
Footpaths

Prolectric permanent AE3 and AE6 LED solar lights use world-class LEADSUN technology to provide high-quality, year-round, off-grid lighting.

We offer a full installation service for our solar street lights, which can be supplied with your specified lamp posts, or retrofitted to existing posts. With no need to dig trenches or install trunking for cables, installation costs can be halved compared to conventional mains power alternatives.

Prolectric was the first to introduce solar-only permanent street lights to the UK in 2011 and there are now more than 4,000, lighting up car parks, walkways and streets across the country.

Our many satisfied customers include leading national housebuilders, Ministry of Defence bases, Local Authorities and main infrastructure contractors.

NO MAINS POWER

Economic to operate



NO MAINTENANCE

Easy set-up and long operating life



LOW COST

No need for trenches or cabling



NO EMISSIONS

Reduce greenhouse gas emissions



Permanent Solar Lighting



World-beating Solar Lighting

Prolectric are exclusive UK distributors of the LEADSUN solar lighting range for the UK. World-class solar power technology and Lithium LiFeP04 battery technology enables highly reliable performance even during winter months.

The Intelligent Operators

Integrated Passive Infra-Red (PIR) sensors switch lights to 100% brightness when vehicles or people enter a pre-defined area, but save power and reduce light pollution when the area is unoccupied. This ensures the solar LED lasts from dusk until dawn.

The lighting units each have an integrated charging unit that constantly monitors the state of the batteries' charging circuit to optimise power levels and ensure maximum efficiency.

Cost-Saving and Maintenance-Free

Prolectric solar LED permanent lights are a popular choice with local authorities and housebuilders, where cost-effective lighting is important. A Prolectric light can be easily installed with 'root mounted' posts into excavated holes or onto a level concrete surface to provide power-free, maintenance-free lighting for many years.

Lighting Design Service

Prolectric offers a full lighting design service. Our engineers can advise on lighting layout and report on the lux levels across your site. We use 'Lighting Reality' software as the lighting software of choice, when undertaking a review of your site details.

Installation and Delivery

Prolectric provides a full delivery and installation service. We are usually able to respond at short notice to fulfil your order.



AE3 55

The AE3 is the world's most compact and versatile solar

LED Light for small to medium spaces. Its lightweight design has been proven over many years of use worldwide. The AE3 55 is available with a 5 or 10 watt high-quality LED.



AE3 80

The AE3 80 series provides all-in-one solar lighting for areas requiring

brighter lighting powered by a 80w sized solar panel. The AE3 80 is available with a 10 or 16 watt LED.



AE6

Our newest, brightest and most powerful solar light, the AE6 is an impressive performer

delivering outstanding lighting for a wide range of outdoor uses. The AE6 is available with between 16 and 50 watt LED and can produce up to 7,200 lumens.

AE3

Solar Street Lighting

The AE3 series provides solar lighting for areas requiring brighter lighting powered by a 55W or 80W sized solar panel. The AE3 is available with a 5 or 10 watt LED.

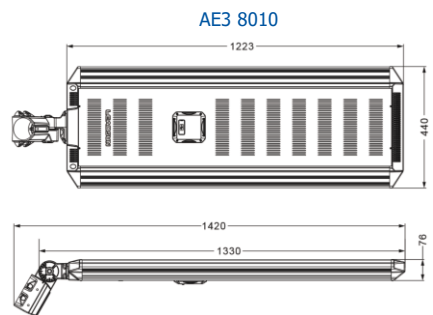
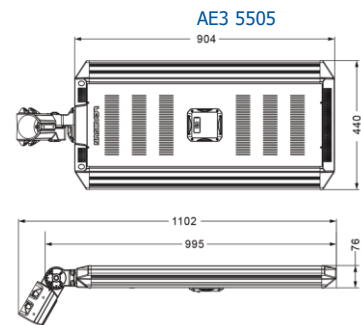
Applications

Street lighting
Parks & recreation areas
Public areas
Bus stops and shelters
Car parks and perimeters
Marinas and harbours
Footpaths

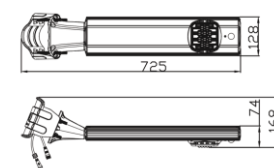


PV MODULES		
SPECIFICATIONS	AE3 5505	AE3 8010
Physical parameters		
Power of PV Module (W)	55	80
Lithium Battery Capacity (Wh)	20Ah (256Wh)	28 (358Wh)
Working time (full power)	≥ 4days	≥ 5days
Working time (dim power)	≥ 10days	≥ 12days
Battery Heating Function	/	Yes
Controller Type	Touch-tone controller	Touch-tone controller
Light Photosensitivity (lx)	30	30
Net Weight of Product (kg)	14.9	14.9
Dimension of Product (mm)	1012 × 440 × 76	1330 × 440 × 76
Packing Parameters		
Dimension of Carton (mm)	1080 × 170 × 510	1400 × 170 × 510
Gross Weight of Product (kg)	17.9	19.9
Environment Requirements		
Charge Temperature	0°C to 60°C	-40°C to 60°C
Discharge Temperature	-20°C to 60°C	-20°C to 60°C
Storage temperature	-20°C to 60°C	-20°C to 60°C

LED LIGHT		
SPECIFICATIONS	LSRM10MC-12	LSRM05MC-12
Physical parameters		
Dimension of Product (mm)	725×128×74	
Net Weight of Product (kg)	3.6	
Light parameters		
Light Power (W)	10	5
Colour lamp	5000 K	5000 K
Lumen output (full power)	1800	900
Lumen output (dim power)	540	270
Packing Parameters		
Dimension of Carton (mm)	760×220×240	
Gross Weight of Product (kg)	17.9	
Environment Requirements		
Charge Temperature	0°C to 60°C	
Discharge Temperature	-20°C to 60°C	
Storage temperature	-20°C to 60°C	



LSRM10MC-12 / LSRM05MC-12



Solar Lighting Bollards

Prolectric ST and SR solar bollards use the latest LED technology for bright illumination with next-generation battery charging to optimise power usage. Long-lasting illumination is assured even through the darkest winters.

With an attractive, modern design, our bollards are vandal-proof and ready for easy installation. Depending on your requirements, select the ST for all-round lighting, or the domed-head SR to direct light downwards with a 90° light-distribution cut-off.

Applications

Housing developments
Pathways and drives
Footpaths, walkways & cycleways
Perimeter lighting
Low-level car park lighting
Security and entrances
Marinas and harbours

Our Customers

Major housebuilders
Environment Agency
Housing Associations
Local Authorities

NO MAINS POWER

Economic to operate



NO MAINTENANCE

Easy set up and long operating life



LOW COST

No need for trenches or cabling



NO EMISSIONS

Reduce greenhouse gas emissions



Solar Lighting Bollards



The Solar Bollards That Keep On Giving

Prolectric's SR and ST solar bollards keep on performing all night long, and all winter long, delivering bright illumination. Their trusted performance is down to a combination of the latest LED technology and high-power Lithium LiFePO4 batteries, together with Prolectric's integrated charging circuit, which constantly monitors the state of the batteries to optimise the charging levels.



ST Bollard



SR Bollard

SPECIFICATIONS	ST	SR
Standard Colour	White	White
Housing	Polycarbonate 257mm Diameter IP66 when installed to pole	Polycarbonate 454mm Diameter IP66 when installed to pole Net Weight 3Kg ± Reflector
LED	Nichia Initial lm/W 150	Nichia Initial lm/W 150
System Power	3.2VDC	3.2VDC
Temperature Range	-30°C to 60°C	-30°C to 60°C
Design Life	10 years expected	10 years expected
Warranty	5 years	5 years
Maintenance	Nil (using correct model/ location)	Nil (using correct model/ location)
Pole	Anodised Aluminium 6106	Anodised Aluminium 6106
Security Bolts	Torx Pin Button Head	Torx Pin Button Head
Assembly	Simple	Simple
Documents	Warranty and Installation	Warranty and Installation

SOLAR MODULE		BATTERY	
Brand	Own	Brand	Own
Watt	4.8 W mono	Type	Lithium LiFePO4
Features	Tempered Glass	Cycles	5500 expected min.
Design Life	10+ years	Design Life	10+ years