

AE3

Solar Street Lighting

The AE3 is a medium to high power solar street light, integrating all components, making the installation and maintenance easy, saving labour and maintenance costs.

Its rational design and high-quality materials make it secure, capable of better heat dissipation, its waterproof and is anti-corrosive, ensuring endurance against harsh environments and prevents premature failure. Adopting a modular design with IP66 rated major components - the structural parts are made of high tensile aluminium alloy.

Our AE3 model split type consists of an off-grid solar system and LED light head satisfying the needs of complicated street lighting. The users can adjust the direction of solar panel and LED light head depending on the site requirements, to reach the best energy utilisation and lighting effect.

The lens design enhances lighting effect, improving lighting uniformity and the design also extends light coverage, providing more comprehensive illumination. With a unique cut-off design, the optic lens eliminates light pollution, contributing to environmental preservation.

The batteries depth of discharge has been increased from 60% to 90% and the cycle life is 5 times that of lead-acid batteries. The battery also features an exclusive battery technology that extends its lifespan to over 8 years.

Key features:

- Lithium-ion Battery System
- Smart Controller
- Monocrystalline Solar Module
- Advanced LED Lighting System
- 5 Years Warranty

Suitable applications include:

- Recreation Areas
- Shared Pathways
- Thoroughfares
- Car Parks

Our solar street lights are simple, quick and economical to install. Column specification in line with the applicable standards must be considered when selecting this product. Prolectric services limited would be pleased to discuss the properties of our solar street lights, to assist you in the selection.

Prolectric cannot accept responsibility for your final selection or installation of the streetlights unless we agree in writing to carry out such selection or installation.



Lighting Designs
Custom lighting designs available, meeting British Lighting Standards.



Low Cost
Installation costs are halved and no on-going running costs.



No Mains Power
No need for trenches or cabling, external electricity or a DNO connection.



5-Year Warranty
Cover on all parts of the lights and solar panel.



3-PIR Sensors
The only light offering detection for a wider range of motion.



Our customers include

1

Up to
90W
solar
panel

2

5W -
40W
LED light

3-PIR
sensors

3

4-8m
columns

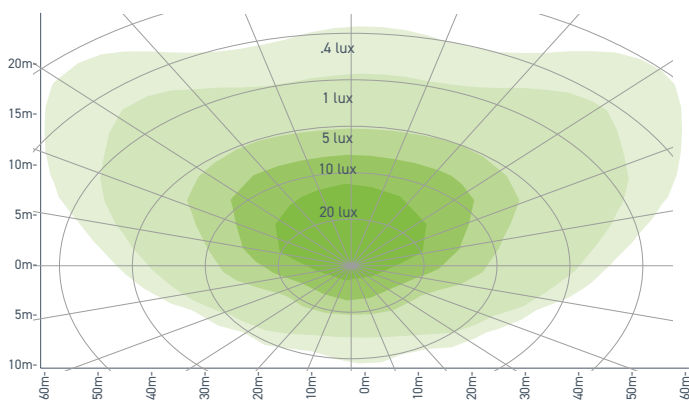
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AE3 Solar Street Lighting

40W LED
lamp
with up to
7,200
lumens



AE3 Light Range



AE3 Area
1x40W Lamp
6m Column
22° Tilt
.5m Outreach

20 lux to 84 sqm
10 lux to 211 sqm
5 lux to 369 sqm
1 lux to 881 sqm
.4 lux to 1,310 sqm



Solar Panels

PV peak	60W or 90W
Dimensions: 60W	1079 (L) x 440 (W) x 102 (D) mm
Dimensions: 90W	1421 (L) x 440 (W) x 102 (D) mm
Net weight	60W: 14 kg 90W: 20 kg

Batteries

Battery specification	2x LiFePO4 lithium-ion battery
Battery capacity	60W: 24Ah (308Wh) 90W: 48Ah (615Wh)
Backup power <i>*Based on 100 PIR triggers</i>	Battery backup at 10W for up to 2.3 days
Standard working mode <i>*Custom profiles on request</i>	8 hours at 30% - 100% brightness for 30s when motion is detected

Lights

Power	5W - 40W LED
Dimensions	650 (L) x 180 (W) x 97 (D) mm
PIR	3-PIR sensor with wider range of motion detection
Net weight	3.5 kg

Applications

The series provides solar lighting for areas such as street lighting, parks and recreation areas, public areas, bus stops and shelters, car parks and perimeters, marinas and harbours and footpaths, amongst others.

5  **YEAR**
WARRANTY

Prolectric Services Limited advises the purchaser of this product to ensure it or a suitably qualified engineer has considered all applicable industry standards, wind loadings, suitability of the terrain where the customer intends to use this product and foundation requirements before selecting, installing and using this product.

