



SLD MODULAR PRO 45W SPECIFICATION SHEET



Features

The SLD Modular-Pro Solar lighting range offers scalable lighting output from a modular solar lighting system. All Modular Pro Series systems combine premium components, quality construction and are built specifically to suit the application. The modern design of the SLD Modular-Pro Solar Light incorporates the solar panel, battery, and LED array into one post top mounted, streamlined, and efficient Solar fitting.

Outputs from 10w to 60w in either single or twin light heads are available. Constant output dusk to dawn, motion detected PIR sensor activated, or custom programmed lighting are available options. The use of premium Lifepo4 battery and intelligent lighting control combined with 5050 SMD LED's producing up to 190+ lumens per watt provide an exceptional light output from these solar luminaires.



Luminaire Height 5 - 8m

Lumen Output 7703 lm

LED Output 45W

Premium-grade modular solar lighting

Scalable lighting output

Constant output or PIR activated

Ideal for illuminating paths and cycleways

Preinstalled IOT capability

Programmable smart lighting

Automatic dusk to dawn lighting

Custom brackets or powdercoated columns manufactured on request

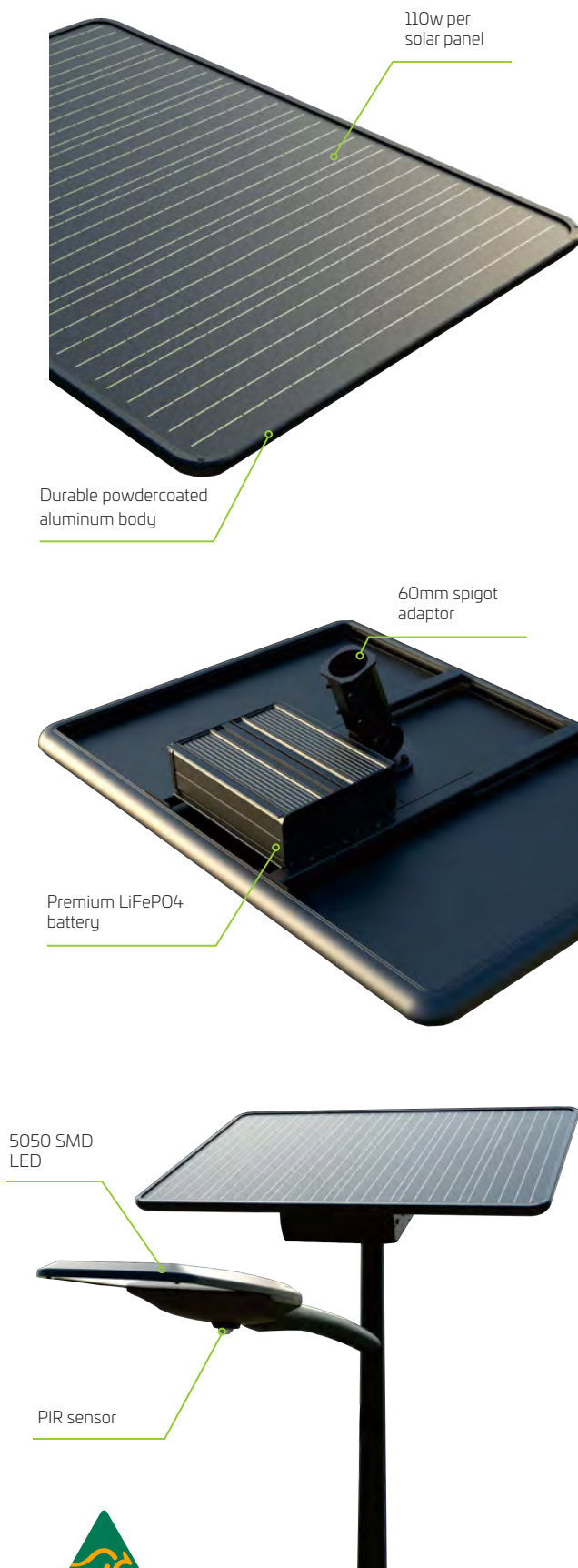
Up to 190 lumen/watt LED output

Aluminium frame and components in a powder coated black finish (RAL9005)

Mounting height of 5 - 8 metres

25 year warranty on solar panel and light fitting, 10 year warranty on batteries and electronics. Warranty covers faulty workmanship or component failure not influenced by external means**

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Applications

Path and cycleways | Car parks | Private roads

Technical Data

Solar Panel Wattage	36V + 110W to 220W*
LED Output	45w (single or twin light head)
Lumen Output	Up to 7703 lm (per light head)
Battery Type	LiFePO4
Battery Specs	25.6V 18AH (460.8 Wh) (up to 4)*
Autonomy	>15 nights setting dependent
Correlated Colour Temp (CCT)	5000K
Light Source	5050 SMD LED
Recharge	Setting dependent
Mounting Height	5 - 8 metres
Mounting	60mm Spigot
Finish	Powdercoated aluminium (RAL9005)
Warranty Period	25/10 years**
SKU	SLDPRO45

Premium 24V System

The primary benefits of a 36V solar panel and 24V battery system is their increased efficiency compared to 12V systems. Higher voltage systems allow for lower current, which reduces power losses in the wiring and makes the overall system more efficient.

Mode of Operation

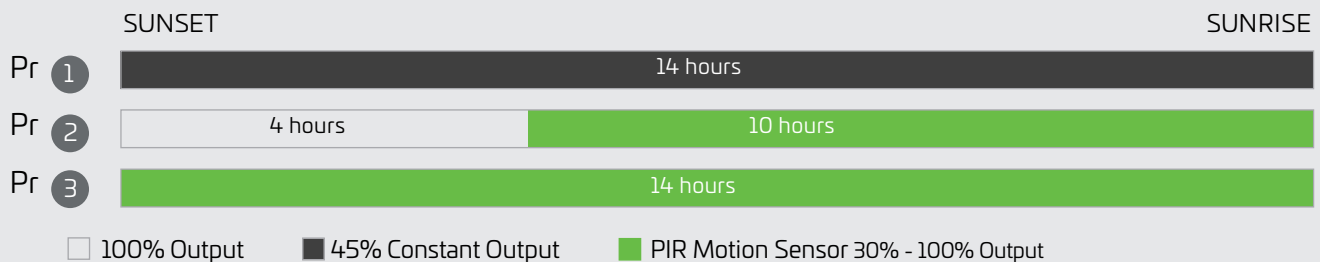
Default program - The unit will operate at 30% output adjusting to 100% output when the PIR is activated, returning to 30% output when no movement is detected.

Custom Programming - Custom lighting programs to suit specific lighting requirements.

As we continue to improve the products function and/or design specifications and data provided may change without notice. Errors and omissions accepted.

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Popular Factory Set Programming Options



Site specific customised modes of operation including, PIR/timer combinations, lumen output changes, timed output and constant output programs are available

Available Modular Options



- Single Light Head
- Single Panel
- 1-2 Batteries

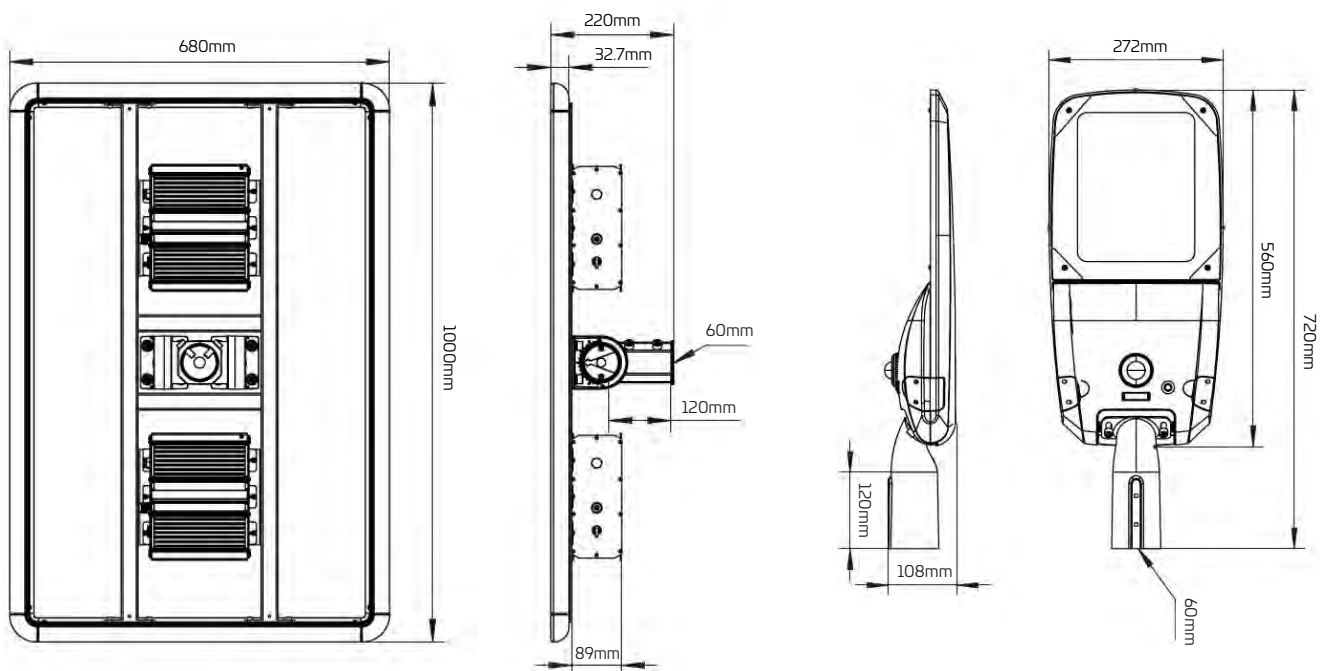
- Single Light Head
- Dual Panels
- 1-4 Batteries

- Dual Light Head
- Single Panel
- 1-2 Batteries

- Dual Light Head
- Dual Panels
- 1-4 Batteries

The modular combination of batteries, solar panels, and LED light fittings allows for a wider range of site-specific programming options. This “modular”, site specific approach to solar lighting ensures the system will operate as designed and specified.

Outputs from 10w to 60w in either single or twin light heads are available. Constant output dusk to dawn, motion detected PIR sensor activated, or custom programmed lighting are available options.



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ORIENTATE & SELECT THE SOLAR PANEL & LIGHT HEAD ANGLE

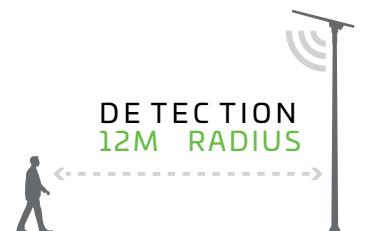
The SLD Modular PRO series is supplied with a well-designed and manufactured adjustable support bracket that is easily installed to the lighting column.

The bracket allows for 360° rotation of the panel and the light head, as well as 60° panel angle adjustment ensuring maximum photovoltaic conversion.



PIR MOTION SENSOR

The P.I.R. (Passive infrared) sensor is activated by movement, reducing light pollution and acting as an energy saving feature.



OPTIONAL

REMOTE MONITORING SLD GATEWAY

As part of our continuous effort for to offer the most innovative products Solar Lighting Designs have developed an IOT based remote monitoring and control platform of our solar streetlights. The SLD Network Gateway uses low frequency technology to monitor and control, in real time, individual or groups of solar streetlights.



4G Internet



Secure connection



Long range communication
3 km from network gateway



Low consumption
<1W



SLD
Communication
Technology

GLOBAL MANAGEMENT

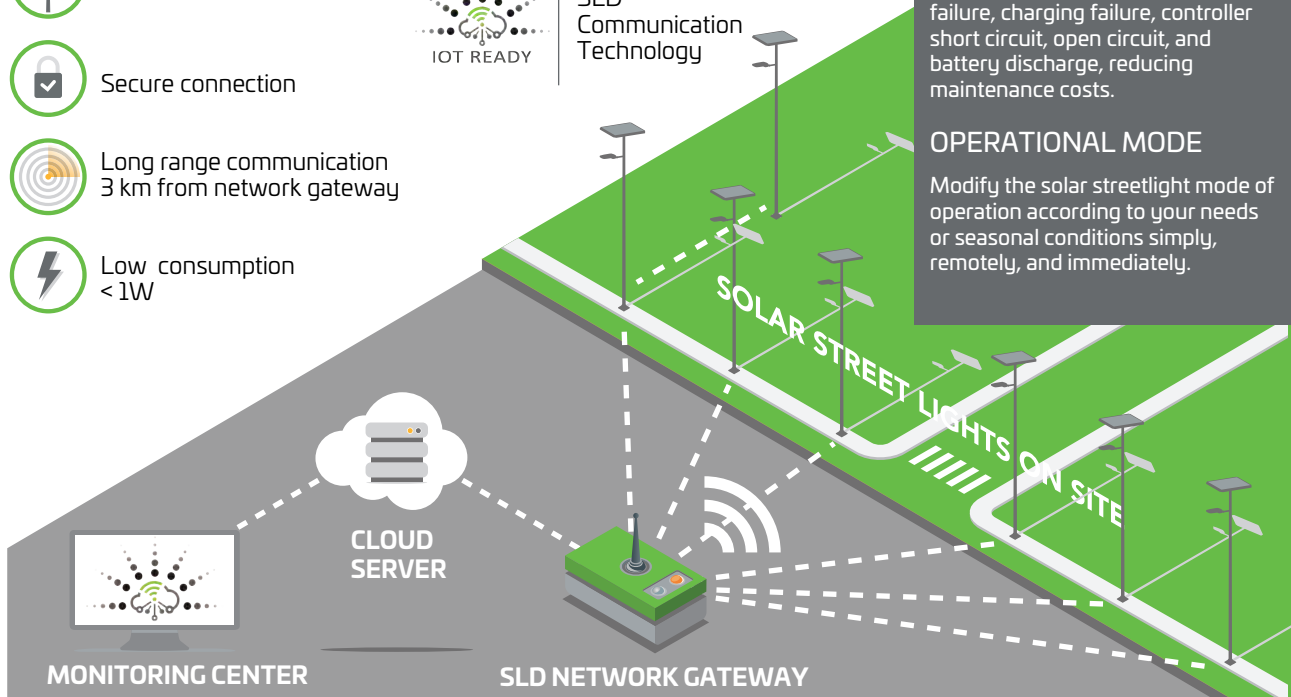
Run diagnosis and control remotely from a monitoring centre providing real time data on all connected solar streetlights from one screen.

FAULT ALARM

Alarms to advise of lamp failure, charging failure, controller short circuit, open circuit, and battery discharge, reducing maintenance costs.

OPERATIONAL MODE

Modify the solar streetlight mode of operation according to your needs or seasonal conditions simply, remotely, and immediately.



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