

SOLAR LIGHTING DESIGNS

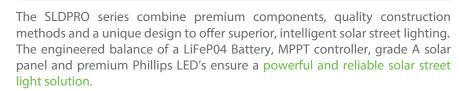
Design - Manufacture - Supply - Install

SLDPRO 60

60W SOLAR STREET LIGHT









Solar Lighting Designs (SLD) offers a 5 Year warranty for faulty workmanship or component failure not influenced by external means. This warranty covers all components when installed and operated according to SLD instructions. PV Panels - 20 year performance warranty Controller & Batteries: 5 years









OVER

YEARS

BATTERY LITHIUM LIFEPO4

The SLDPRO Series is equipped with a premium Lithium Iron Phosphate (LiFePo4) battery. This equipment has proven to be the best energy storage technology for solar applications.

With a cycle life of over 4000 Cycles @ 80% DOD, the battery will exceed a 10 year lifetime.

EASY MAINTENANCE & ANTITHEFT SCREWS



Simple and direct access to the battery casing for maintenance. Tamper proof fixings are available on request.

ELECTRONIC PROTECTION BATTERY MANAGEMENT SYSTEM (BMS)



An electronic algorithm protects the battery from operating outside its safe perimeters, constantly monitoring its state, calculating and reporting the data and/or controlling the battery environment to ensure balance and long life.

The BMS offers MULTI PROTECTION:

- OVER/UNDER LOAD
- OVER CHARGE & DISCHARGE
- OVER/UNDER CURRENT
- TEMPERATURE MANAGEMENT
- OVER/UNDER VOLTAGE



EXTREME TEMPERATURE DOWN TO- 40 °C.

Standard Lithium LiFePo4 batteries have a working temperature range from -10°C TO >70 °C. SLD offers as optional a newly developed LiFePo4 battery with working range of -40 °C. to >70 °C for use in extreme conditions

5 YEARS WARRANTY



Warranty for faulty workmanship or component failure not influenced by external means

NATURAL

AIRFLOW

ALUMINUM WATERPROOF CASING

Our batteries are contained in an aluminium waterproof casing for a

The unique mounting of the battery case provides natural airflow keeping the battery at ambient temperature.

SOLAR PANEL 125 WATTS

Carefully selected Grade A high efficiency monocrystalline solar panels solar cells with up to 19.4% efficiency. 5 busbars cells for a better collected current capability. Corrosion resistant, modern design anodised aluminium alloy frame.

Waterproof Plug and Play connector.

OUR PV PERFORMANCE GUARANTEE

Guarantee module performance

97%

SLD Grade

Commercial Guarantee

98

1 5 25 30







LUMINAIRE HOUSING & LEDS

60 WATTS - 9000 LUMENS - 3000 TO 6500 K

High pressure die-cast low-copper aluminium housing. Protection class (IP66). Solar Lighting Designs uses a high quality Polyester Powder Coating from AKZO NOBEL providing excellent dirt and humidity resistance as well as ultra violet resistance for color retention.

Our luminaire is equipped with PHILIPS LUXEON High efficiency Chips offering 150 lumens per watt efficacy.

The luminaire housing is designed to dissipate heat and is constructed with quality lens seals for optimal lighting and life span.

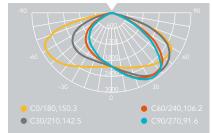
▶ LIGHT SOURCE 3030 QTY (PCS) 48 LENS (PCS) LFD CRI > 70



THREE STANDARD OPTIC OPTIONS AVAILABLE ON REQUEST:

TYPE II-S

AVERAGE BEAM ANGLE (50%): 102.5 DEG



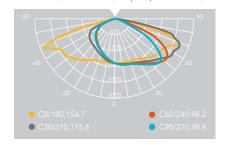
Type selected: \square 1 \square 2 \square 3





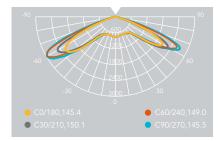
TYPE III-M

AVERAGE BEAM ANGLE (50%): 116.7 DEG



TYPE V

AVERAGE BEAM ANGLE (50%): 147.5 DEG



*Additional optics available

CONTROLLER SMART **MPPT**

The SLDPRO series is equipped with high quality MPPT Controller using a technologically advanced semiconductor.

FEATURES

HIGH TRANSFER EFFICIENCY Charging efficiency up to 98%

MINIMAL STAND-BY POWER CONSUMPTION Current consumption ≤ 10mA

INTELLIGENT BATTERY MANAGEMENT 3 Phase charging: MPPTT Charge / Constant Voltage /Floating Voltage.

INTELLIGENT LED DRIVER auto detecting of dusk and dawn for automatic operation, allows for custom lighting programs.

ANTI BLACK OUT: Load adjust according to battery capacity assuring all night long lighting in any weather conditions.

BATTERY & SYSTEM PROTECTION:

- OVFR / UNDFR LOAD
- OVER / UNDER CURRENT
- OVER / UNDER VOLTAGE
- OVER CHARGE & DISCHARGE



REMOTE CONTROL MONITORING

- Confirm the state of the battery
- Check charging history
- · Modify operational modes
- Issue diagnostic report

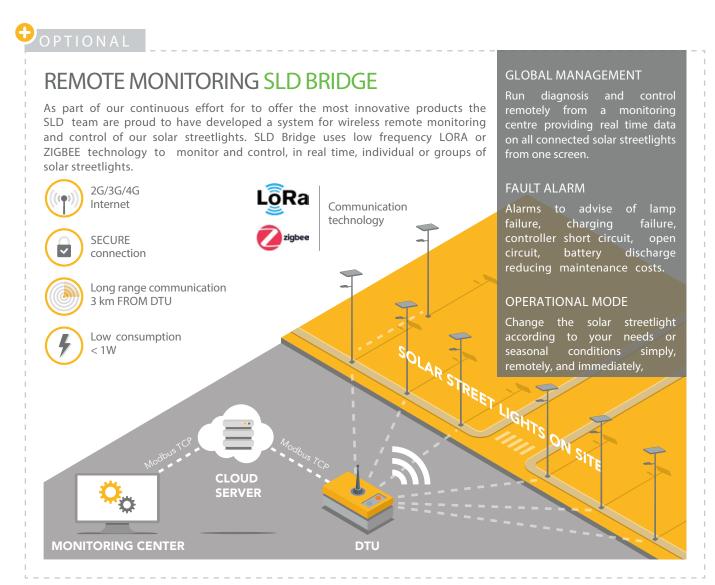


OPERATIONAL MODES

THE PHOTOSENSOR AUTOMATICALLY SWITCHES THE FITTING ON AT DUSK AND OFF AT DAWN.

Solar lighting designs provides 4 standard pre-programmed lighting profiles as detailed below.





EASY INSTALLATION ORIENTATE & SELECT THE SOLAR PANEL ANGLE

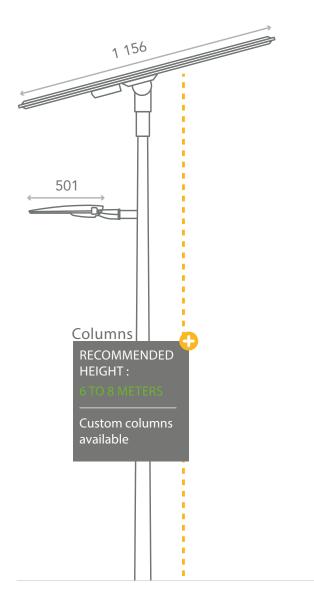
The SLDPRO series is supplied with a well-designed and manufactured adjustable support bracket that is easily installed to the lighting column.

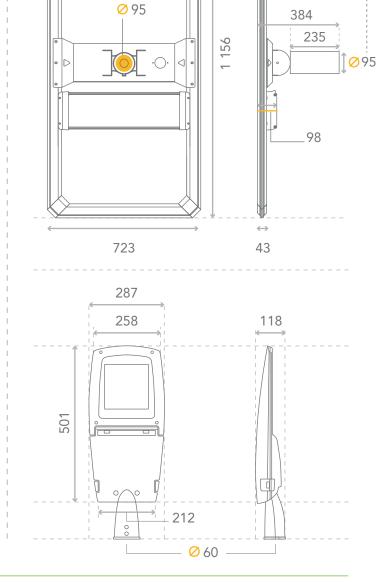
The bracket allows for 360° rotation of the panel and an arc through 60° for optimal azimuth selection in your geographical location ensuring maximum photovoltaic conversion.



INSERT ON

SOLAR PANEL & LUMINAIRE DIMENSIONS





^{*}All dimensions are in millimeters.