



SLS Series (40-60 W)

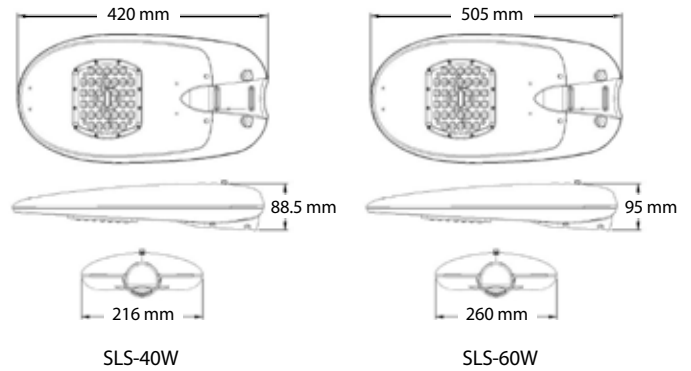
Streetlight Luminaire w/ Charge Controller & LED Driver



phocos



Technical Drawing



Product Introduction

The street light system (SLS series) outdoor lighting luminaires are the ideal, cost-effective choice for autonomous roadway, pathway and area lighting applications. The high-luminosity LED design features an extremely long life (>50,000 h) and high-quality optics. This off-grid lighting solution avoids costly trenching for grid power access, offering simplicity and cost savings. The high transparency glass-cover provides an optimized light pattern for roadways.

All SLS series luminaires feature a built-in Phocos solar charge controller and LED driver, which makes installation hassle-free. Just add an appropriately sized battery bank, solar panel/array and mounting pole and the SLS series easily integrates as an autonomous solar outdoor lighting system.

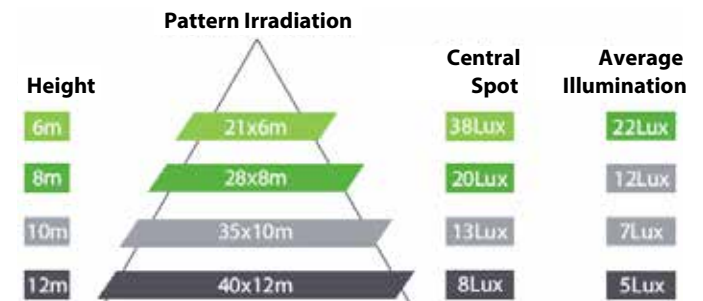
Product Features

- High efficiency, long life LEDs
- Input for connection to passive infrared motion sensors
- LED matrix arrangement, glare free, homogeneous lighting
- Streamlined design, excellent thermal performance
- Integrated Phocos high performance, high efficiency CIS charge controller with integrated LED driver, in MPPT or PWM technology
- Programmable settings with dimming options
- Robust aluminum housing doubles as heatsink

Technical Data

Type	SLS Series
System Voltage	12/24 V auto recognition
Luminous Efficiency	150 lm/W
LED Lifetime	>50,000 h
Color Rendering Index	Ra>70
Color Temperature	3000-6500 K
Ambient Temperature	-40 to +50 °C, 10%-90% RH
Max Altitude	4,000m above sea level
Battery Types	Lead acid (gel, AGM, flooded), LiFePO4
Ingress Protection	IP65 (luminaire), IP68 (controller/driver)
Certificates	CE compliant, RoHS compliant
Warranty	3 years

Isolux Diagram



Model-Specific Data

Type	SLS-40W-PWM	SLS-60W-PWM	SLS-40W-MPPT	SLS-60W-MPPT
Rated Power	40 W	60 W	40 W	60 W
Luminous Flux	6000 lm	9000 lm	6000 lm	9000 lm
Max Charge Current	20 A		15 A	
Max Panel Input Voltage	30/50 V		85 V	
Max PV Power Input	350/700 W		250/500 W	
Regulation Type	PWM		MPPT	
Idle Self-Consumption	5-8 mA		< 10mA	
Grounding	Negative		Positive	
Dimensions (mm/in)	420 x 216 x 88.5/ 16.5 x 16.4 x 3.5	505 x 260 x 95/ 19.9 x 10.2 x 3.7	420 x 216 x 88.5/ 16.5 x 16.4 x 3.5	505 x 260 x 95/ 19.9 x 10.2 x 3.7
Weight	2.8 kg / 6.2 lbs	4 kg / 8.8 lbs	2.8 kg / 6.2 lbs	4 kg / 8.8 lbs