

# Hybrilux

## SL15-MAX SOLAR FIN

All-in-One Solar fully integrated LED Street Light

A full range series of solar street luminaires with maximum flexibility.



200 lm/W



Up to 21% high conversion rate



LifePO4

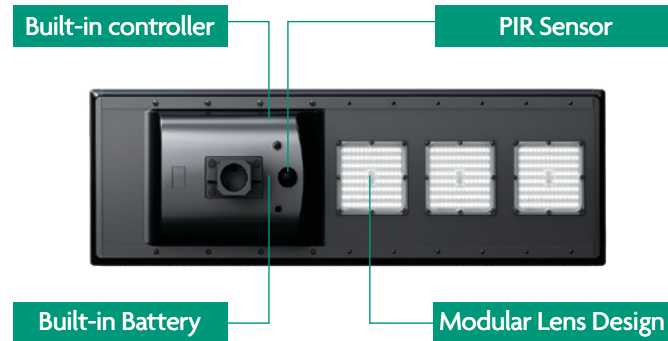


Sustainable



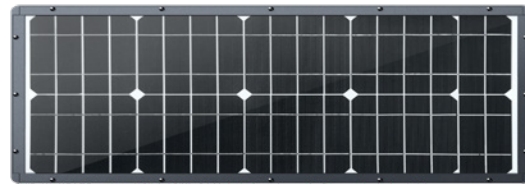
### Built for Efficiency & Overall Value.

Its All-in-One integrated design simplifies installation — eliminating the need for wiring — while reducing both operational and freight costs.



### Mono-crystalline photovoltaic panel with a higher conversion efficiency

The battery and controller are seamlessly integrated within the fixture, making transportation and installation quick and effortless. This solar street light features a high-performance LiFePO<sub>4</sub> battery, delivering superior high-temperature resistance, strong current discharge, and a lifespan of over 2,000 charge cycles. A 21% high-efficiency monocrystalline solar panel maximizes energy capture—even in rainy or low-light conditions—ensuring longer service life and consistently reliable lighting performance. With just 8 hours of charging, the system can operate continuously for up to three days



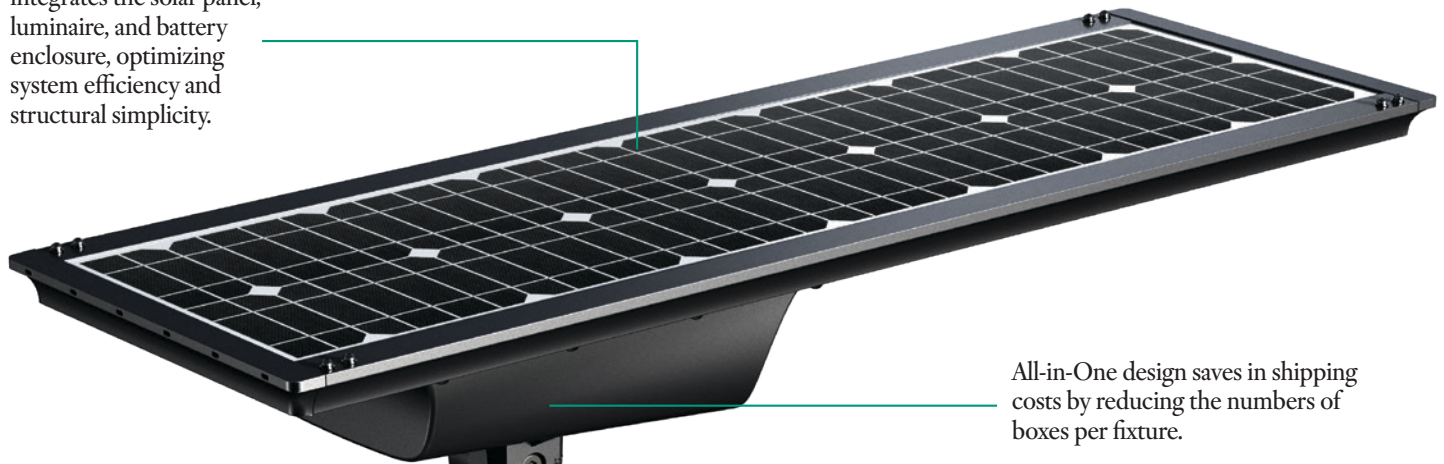
### High Efficiency Up To 200lm/w.

Engineered for performance, the system delivers up to 200 lm/W efficiency — providing maximum light output with minimal energy consumption. Available from 6,000 to 20,000 lumens, it meets the demands of projects large and small.



### All-in-One Solar Lighting: Delivering Efficient Illumination in a Sleek, Easy-to-Install Design That Reduces Shipping and Installation Costs.

Single-unit architecture integrates the solar panel, luminaire, and battery enclosure, optimizing system efficiency and structural simplicity.



All-in-One design saves in shipping costs by reducing the numbers of boxes per fixture.



#### Compare our light with a traditional solar street with an external panel.

Traditional solar street lights can be bulky and visually unappealing. They typically rely on external solar panels, separate intelligent controllers, and lead-acid batteries, resulting in a more complex design that drives up installation and shipping costs.

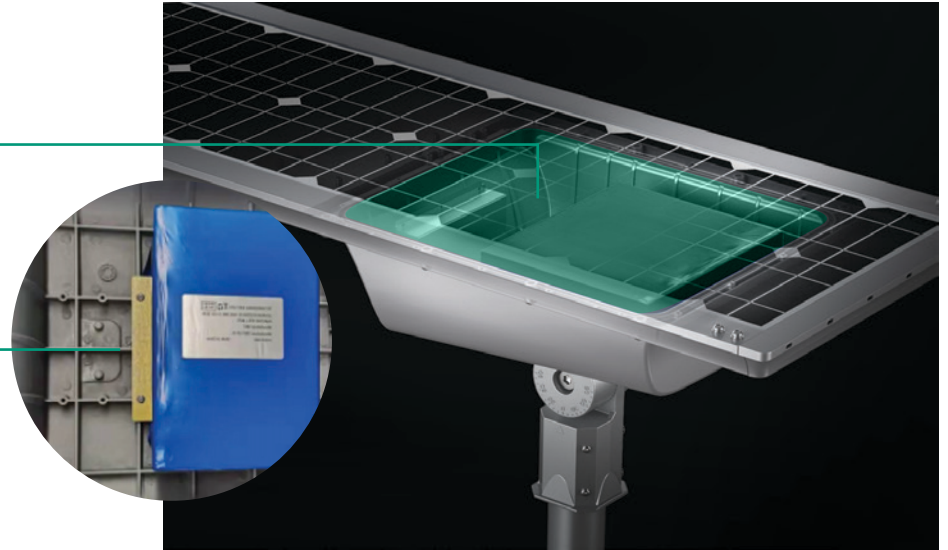
### Low Maintenance. Long-Term Savings.

Maximize energy savings and minimize maintenance costs with our solar street light featuring an intelligent PIR motion sensor. This smart system automatically adjusts brightness based on movement, ensuring ultra-low energy consumption and extended battery life. Enjoy powerful, consistent illumination with long-lasting performance — no maintenance required.

### Maintenance Friendly

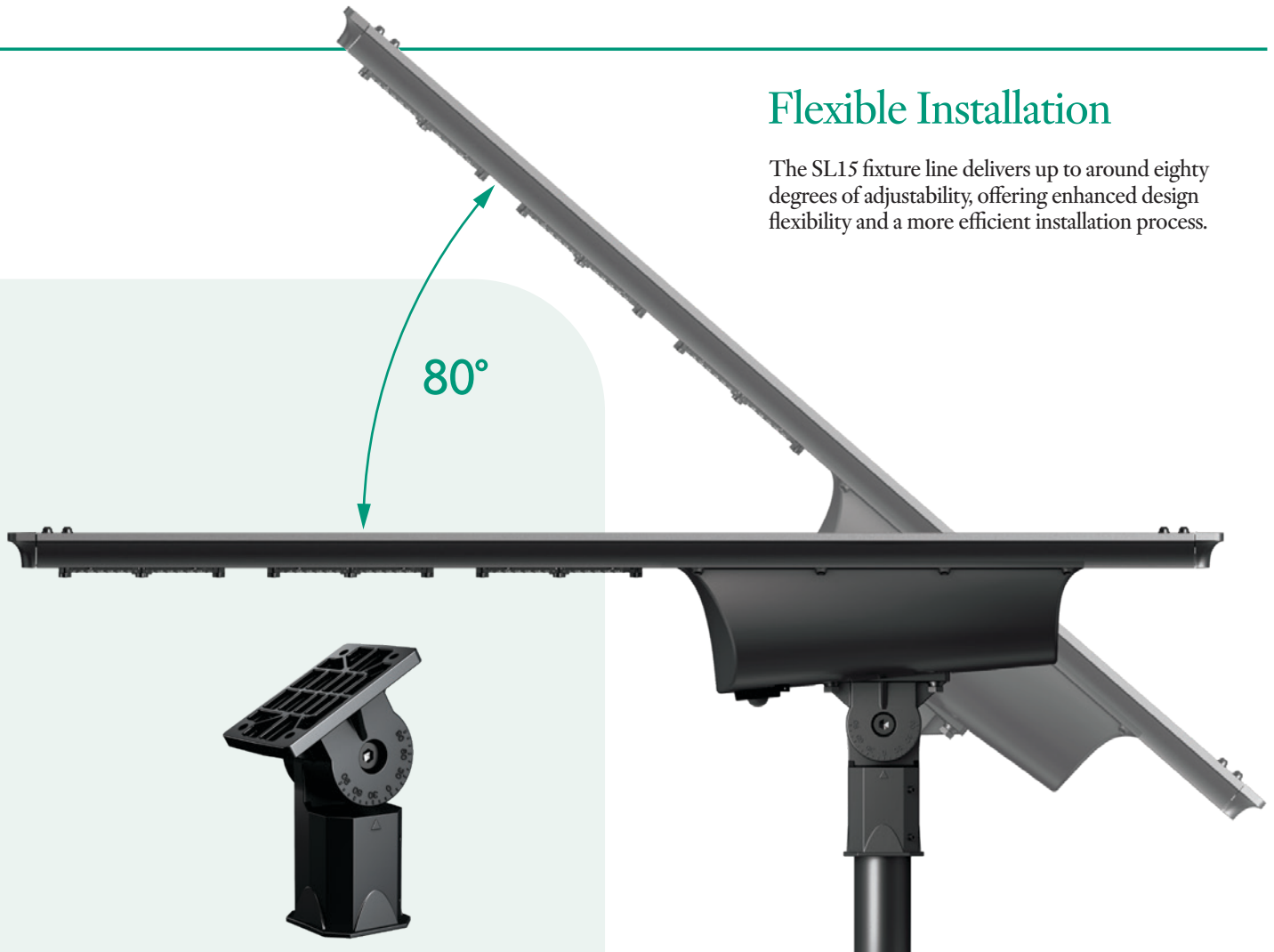
Housing contains a large space to fit different capacity of batteries.

Detachable LiFePO4 battery makes it easy for maintenance.



### Flexible Installation

The SL15 fixture line delivers up to around eighty degrees of adjustability, offering enhanced design flexibility and a more efficient installation process.





Electrical Information						
Model No.	LS15-30	LS15-40	LS15-50	LS15-60	LS15-80	LS15-100
Power Consumption (±5%)	30W	40W	50W	60W	80W	100W
Battery	LiFePO4 battery					
Battery Capacity	230.4WH	307.2WH	384WH	460.8WH	614.4WH	768WH
Solar Panels	Mono-crystalline solar panel					
Solar Panel Wattage	56W	78W		88W		108W
Charging Time	> 9 hours					
Operating Time	3 - 4 days on default profile with fully charged battery.					
Solar Charge Controller	MPPT					
Working Mode	Refer to Intelligent control					
Control	Timmer dimming/PIR sensor					

Optic Information						
LED Type	LED 2835					
Lumious Flux (±10%)	6000lm	8000lm	10000lm	12000lm	16000lm	20000lm
Efficacy (4000K Ra70)	200lm/W					
Correlated Color Temperature	4000K (3000K, 5000K optional)					
Color Rendering Index	Ra70 (Ra80 optional)					
Beam Angle	Type II (A10801), Type III (A10803), Type V (A10805)					
UGR Level	NA					

### Description

SL15-Max Solar Fin is a full range integrated solar street light, four sizes covering 30W, 40W, 50W, 60W, 80W, 100W, will satisfy different applications. The cuttin edge structure design and flexible mounting angle contribute to an easy installation. The built-in PIR sensor supports intelligent dimming control and offer longer discharge time. SL15-MaxSolar Fin, the easy, clean and long working period street light.

### Key Features

- Full wattages, 30W, 40W, 50W, 60W, 80W, 100W.
- High system efficiency up to 200lm/w, lumen package from 6000lm to 20000lm
- Smart control with built-in PIR sensor and timer dimming.
- Higher conversion Mono-crystalline photovoltaic solar panel.
- Easy maintainance with removable battery.
- ±80° adjustable mounting angle

### Applications

- Streets
- Urban Roads
- Parking Lots
- Pathways
- Parks

### Dimention and Mount

Product Dimension	796x422x342mm	1100x422x342mm	1282x422x342mm	1532x422x342mm		
Luminaire Net Weight (±0.3kg)	13.5	16.5	17.0	20.0	21.5	24.0
Export Carton Size	910x530x255mm	1225x530x255mm	1405x530x255mm	1655x530x255mm		
Gross Weight (±0.3kg)	15.8	19.5	20.1	23.1	24.7	27.6
Mounting Option	Post top mounting					
Material	Aluminum alloy					
	Polycarbonate optical lens					
	LiFePO4 battery					
	Mono-Crystalline solar panel					
Finish	Powder coating					
Fixture Color	Silver					
EPA	0.403m <sup>2</sup> (4.34ft <sup>2</sup> )	0.557m <sup>2</sup> (6ft <sup>2</sup> )		0.649m <sup>2</sup> (6.99ft <sup>2</sup> )		0.776m <sup>2</sup> (8.35ft <sup>2</sup> )
IP Rating	IP65					
Category of corrosion	C3					

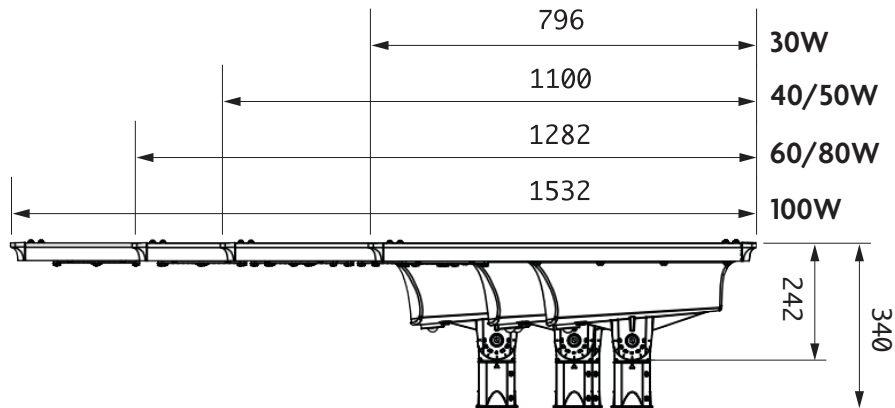
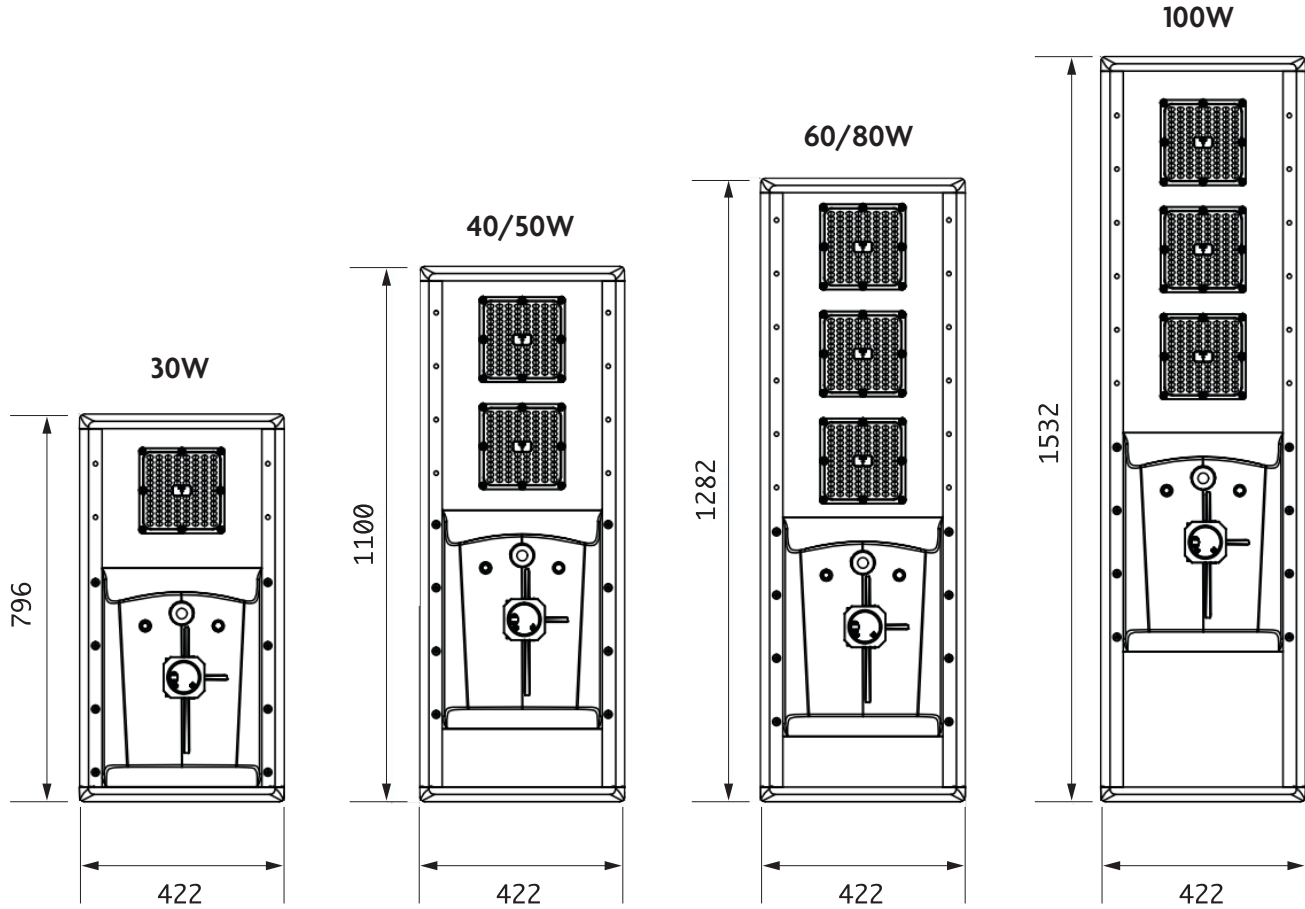
### Lifespan and Warranty

Operating Temperature	0°C to + 50°C					
Life Time of LED @Ta=25°C	31000hrs-L90					
	64000hrs-L80					
	101000hrs-L70					
Warranty	Battery	3 Years				
	Other accessories	5 Years				

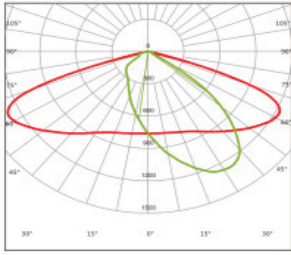
### New Features

\* Please consult us for details.

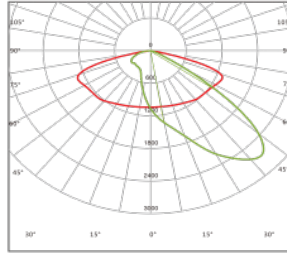
### Dimensions



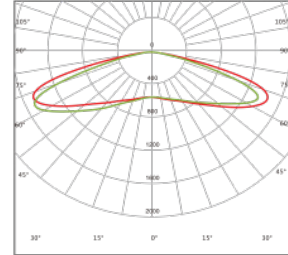
### Photometry



Type II (A10801)



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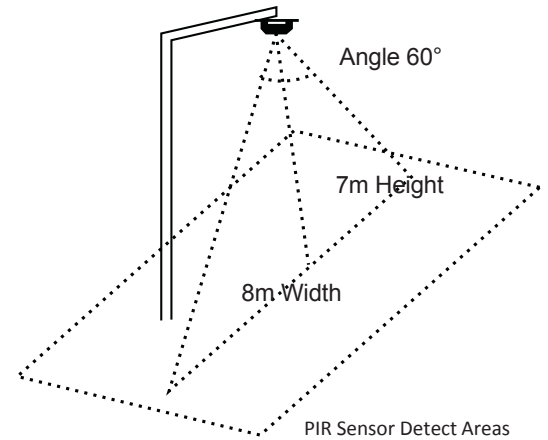
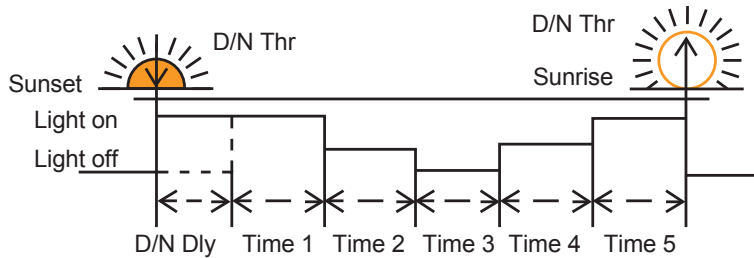
### Mounting Options



Post Top Mount

### Intelligent Control Mode

#### 5 Stage Night Mode



\*You can note the Sensor function is only available at Time 3 and Time 4

\*Please note the fixtures with 5 stages timer dimming yourself by the remote controller.

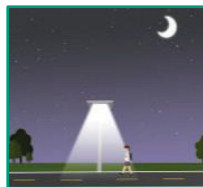
#### Factory Default setting



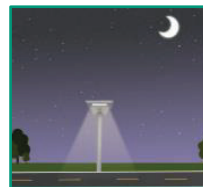
With sufficient natural light, the light keeps charging until sunset.



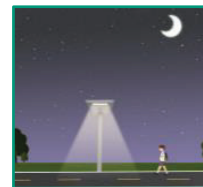
Time 1 (T1) = 0 hours. The light stays at 100% brightness for Time 2 (T2) = 0.5 hours.



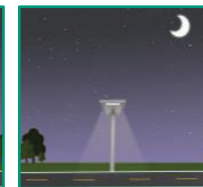
The light stays at 50% brightness when presence is detected during this time period, Time 3 (T3) = 4 hours.



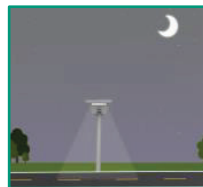
The light stays at 10% brightness when no presence is detected during this time period, Time 3 (T3) = 4 hours.



The light stays at 20% brightness when presence is detected during this variable time period, Time 4 (T4) = TOT. T4 is calculated by the controller.



The light stays at 10% brightness when no presence is detected after a 30-second hold during this variable time period, Time 4 (T4) = TOT.



The light stays at 10% brightness for the last 0.5 hours, Time 5 (T5) = 0.5 hours.

### Accessories



#### Remote control

Remote Controller for Solar Street light.

Model No.: R-P-SL15

