Motion Activated Solar LED Street Lighting
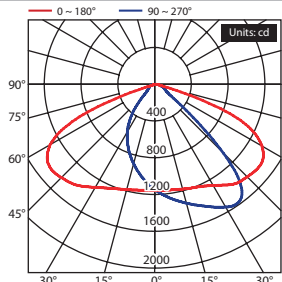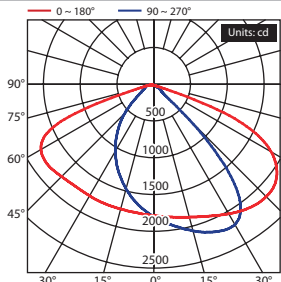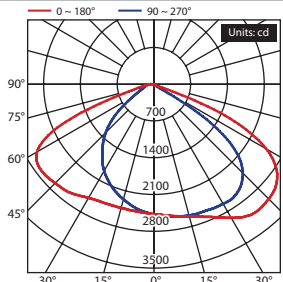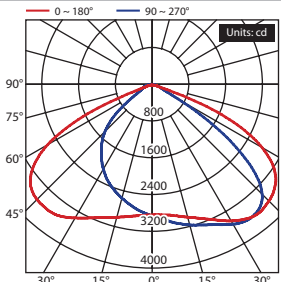
SSL-B Series: Solar LED street lighting with microwave motion detection in 30W, 50W & 60W models

The ENSA™ SSL-B Series comprises motion-activated, solar-powered LED street lights, designed to deliver standalone lighting to outdoor locations without mains power access. SSL-B Series models couple monocrystalline silicon solar panel technology and high capacity lithium iron phosphate (LiFePO4) batteries for efficient use & extended operating time.

Models feature a customisable motion detection system that can be configured for street, area & security lighting, and other off-grid outdoor lighting purposes. They are ideal for use in remote or under-developed locations such as on rural roads, at remote fences/gates, in construction sites, and in general street lighting applications.

- Outstanding energy efficiency at >180lm/W performance
- Up to 21% conversion rate monocrystalline solar panels
- Dusk/dawn switch, motion sensing & on-time delay
- Configure power output for different times of the day

- 60° tilt-adjustable LED modules for lighting customisation
- Multiple days of use from full charge (sensor mode, overcast)
- LED available in 5700K cool white colour temperature
- IP65 weather rated with included bird guard (optional)

Product specifications may be subject to change without notice.

Series Specifications

Model	SSL-B20	SSL-B30	SSL-B50	SSL-B60
Product Image				
Series Name	SSL-B Series Motion Activated Solar LED Street Lights			
Light				
Light Output	3900lm	5500lm	9400lm	11100lm
Luminous Efficacy	>180lm/W			
Colour Temperature	5700K Cool White			
Beam Angle	145° x 75°		145° x 100°	
Rated LED Lifespan	50,000hrs			
LED Testing	LM80 / TM21 (available on request)			
Power Consumption	20W	30W	50W	60W
Internal Battery	218Wh LiFePO4	320Wh LiFePO4	500Wh LiFePO4	1200Wh LiFePO4
Input Voltage	12.8VDC	12.8VDC	12.8VDC	25.6VDC
Operating Time	72~120 hours (intelligent mode, rainy weather)			120~168 hours (int. mode, rainy weather)
Light Bracket	Adjustable bracket angle -30° ~ 30°			
Solar Panel				
Panel Type	Monocrystalline silicon			
Panel Wattage	56W	80W	120W	180W
Panel Conversion Rate	≥21%			
Panel Bracket	Adjustable bracket angle -60° ~ 60°			
Rec. Install Height	5 ~ 7m		8 ~ 10m	
Detection				
Motion Detection	Microwave motion sensor			
Detection Range	Ø8 ~ 15m (height: 5 ~ 7m)		Ø8 ~ 15m (height: 8 ~ 10m)	
Light Mode Settings — Normal	Mode time period / Brightness			
Light Mode Settings — Morning	Mode time period / Brightness			
Light Mode Settings — Sensor	Mode time period / Brightness on motion / On-time delay / Brightness after motion			
General				
Ingress Protection	IP65			
Pole Diameter	Ø50~60mm			
Product Dimensions	821 x 450 x 161mm	1015 x 525 x 161mm	1321 x 525 x 161mm	1496 x 685 x 161mm
Photometry				
Luminous Light Distribution				

Ordering Information

Type	Series	Wattage	Sensor Type	Colour Temperature
SSL	- B	20 (20W LED light) 30 (30W LED light) 50 (50W LED light) 60 (60W LED light)	M (Microwave)	C (Cool white)

SSL-B60MC: 60W Motion Activated Solar LED Street Light in Cool White

Included Accessories

Check status & adjust settings of the SSL-B Series with the included infrared configuration remote.

Control motion sensor operation, battery charge/discharge settings, allocate light power & more.

Your local ENSA™ professional: