

Solar Street & Area Light

SL01

Ultra-high capacity battery delivers extended runtime



Description

The SL01 is a comprehensive series of solar street lights, offering five power specifications-30W, 40W, 60W, 80W, and 100W-to comprehensively meet diverse application needs. It features an intelligent control system with a built-in microwave motion sensor and timed dimming functionality. With adjustable installation angles, modular LED components, and a detachable battery design, it ensures easy installation, maintenance, and replacements. The ultra-high-capacity battery provides prolonged operational endurance.

Key Features

- All in one design, efficiency up to 195lm/w
- Built in microwave motion sensor and timer dimming function
- LED module is adjustable.
- Ultra-high capacity battery delivers extended runtime
- Easy maintenance with removable battery

Applications



Rural roadway



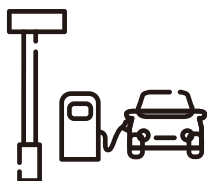
Urban road



Walk path



Courtyard



Open Car Parks



Park



Plazas



Highways/Main streets

GENERAL INFORMATION

Housing materials	Aluminum alloy
Housing finish	Powder coating
Optic materials	Polycarbonate
Fixture color	Silver gray (RAL870-3)
CCT selection	NO
Sensor	Yes
Light source SDCM	<5
Impact resistance	IK08 (solar panel/microwave Sensor not included)
Ingress protection	IP66
Category of corrosion	C3 (ISO 9223:2012)
Certification	CE/RoHS
Warranty(years)	3 years for battery, 5 years for other parts

TECHNICAL DATA

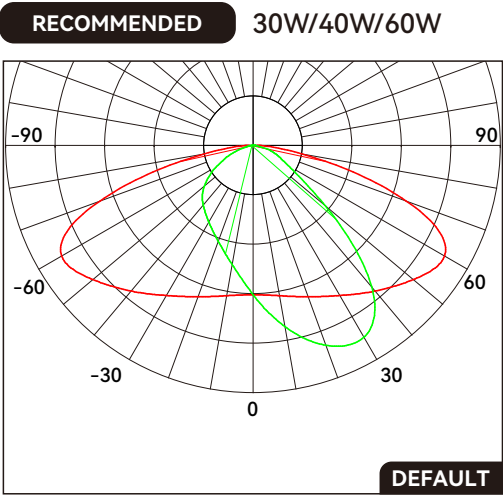
Solar power

Code		Standard version					Long autonomy version					
		SL01-030/M	SL01-040/M	SL01-060/M	SL01-080/M	SL01-100/M	SL01-030/B	SL01-040/B	SL01-060/B	SL01-080/B	SL01-100/B	SL01-100/B
Nominal wattage(W) ±5%		30	40	60	80	100	30	40	60	80	100	100
Solar panel type		Mono-crystalline										
Solar panel voltage(V)		18	18	18	18	36	18	18	18	18	36	36
Solar panel wattage(W)		39	52	66	90	113	39	52	66	90	113	113
Battery type		LiFePO4 battery										
Battery ampere hour(Ah)		6	12	18	24	18	18	24	36	48	36	48
Battery voltage(V)		12.8	12.8	12.8	12.8	25.6	12.8	12.8	12.8	12.8	25.6	25.6
Battery capacity(Wh)		76.8	153.6	230.4	307.2	460.8	230.4	307.2	460.8	614.4	921.6	1228.8
Battery lifetime		>2,000 cycles (D.OD. 80%)										
Charge controller type		MPPT										
Charging time(hrs)		2.5	3.5	4	4	4.5	6.5	6.5	7.5	7.5	9	12
Operating time(hrs)		Full power on 3-5 hours, Intelligent mode: 2-3 days					Full power on 7-12hours, Intelligent mode: 4-6 days					
Electrical class		Class III										
Light source		LED2835										
Color rendering index		Ra70/Ra80										
General luminous efficacy (lm/W)		195lm/W @4000K Ra70										
Color temperature(K)		1-CCT: 3000K/4000K/5000K										
Luminous flux(lm) ±10% Ra70	1-CCT	5600-6000	7300-7600	11200-11700	15200-15800	18500-19300	5600-6000	7300-7600	11200-11700	15200-15800	18500-19300	18500-19300
Luminous flux(lm) ±10% Ra80	1-CCT	5200-5400	6800-7080	10300-10800	14000-14600	17000-18000	5200-5400	6800-7080	10300-10800	14000-14600	17000-18000	17000-18000
Beam angle		R13802			R20402		R13802			R20402		
Luminaire windage area(SCx)(m²)		0.21m²	0.27m²	0.34m²	0.47m²	0.58m²	0.29m²	0.37m²	0.47m²	0.65m²	0.80m²	0.80m²
Operating temperature(°C)		0 to +50										
Lifespan of LED@Ta=25°C (hrs)		62,100-L90B50										
		126,500-L80B50										
		167,500-L70B50										

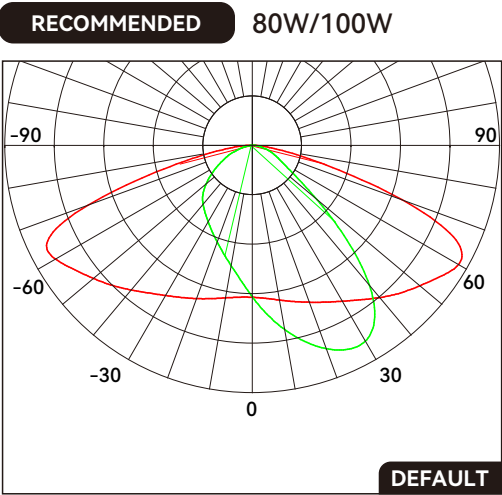
Hybrid solar power

Code	SL01-030/A	SL01-040/A	SL01-060/A	SL01-080/A	SL01-100/A
Nominal wattage(W) ±5%	30	40	60	80	100
Solar panel type	Mono-crystalline				
Solar panel voltage(V)	18	18	18	18	36
Solar panel wattage(W)	39	52	66	90	113
Battery type	LiFePO4 battery				
Battery ampere hour(Ah)	6	12	18	12	18
Battery voltage(V)	12.8	12.8	12.8	25.6	25.6
Battery capacity(Wh)	76.8	153.6	230.4	307.2	460.8
Battery lifetime	>2,000 cycles (D.OD. 80%)				
Charge controller type	MPPT				
Charging time(hrs)	2.5	3.5	4	4	4.5
Operating time(hrs)	Full power on 3-5 hours, Intelligent mode: 2-3 days				
Electrical class	Class I				
Driver type	Constant Voltage (CV)				
Nominal input voltage(V)	100-240Vac, 50 / 60 Hz	220-240Vac, 50 / 60 Hz		100-240Vac, 50 / 60 Hz	
Power factor(at full load)	>0.9				
Flicker factor	<1%				
THD	<10% @230V				
Surge protection	L-N: 4KV, L/N-E: 6KV				
Light source	LED2835				
Color rendering index	Ra70/Ra80				
General luminous efficacy (lm/W)	195lm/W @4000K Ra70 (AC Power Supply: 160lm/w)				
Color temperature(K)	1-CCT: 3000K/4000K/5000K				
Luminous flux(lm) ±10% Ra70	1-CCT	5600-6000	7300-7600	11200-11700	15200-15800
Luminous flux(lm) ±10% Ra80	1-CCT	5200-5400	6800-7080	10300-10800	14000-14600
Beam angle	R13802			R20402	
Luminaire windage area(SCx)(m²)	0.21m²	0.27m²	0.34m²	0.47m²	0.58m²
Operating temperature(°C)	0 to +50				
Lifespan of LED@Ta=25°C (hrs)	62,100-L90B50				
	126,500-L80B50				
	167,500-L70B50				

OPTICS

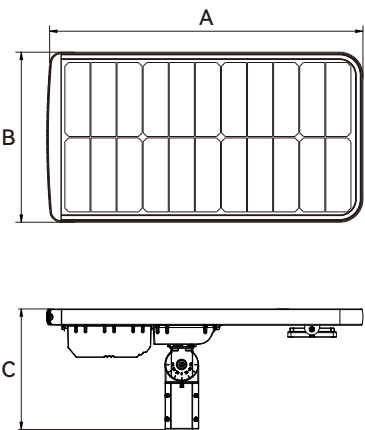


Typell Short (63x155° Tilt 30°)
R13802



Typell Short (61x151° Tilt 30°)
R20402

MEASUREMENT



Product code	Luminaire dimensions AxBxC(mm)	/	Product weight (kg) ±6%	Package weight (kg) ±6%	Carton size(mm)	Qty/CNT
			N.W/CTN	GW/CTN		
SL01-030	663×363×252	Standard/Hybrid Version	7.7	9.3	700×400×120	1
		Long autonomy Version	10.8	12.5	700×400×135	
SL01-040	848×363×252	Standard/Hybrid Version	8.9	10.8	895×400×120	1
		Long autonomy Version	12.5	14.0	895×400×135	
SL01-060	1075×363×252	Standard/Hybrid Version	11.8	14.4	1115×400×120	1
		Long autonomy Version	15.0	17.5	1115×400×135	
SL01-080	1098×493×263	Standard/Hybrid Version	15.8	19.0	1135×525×150	1
		Long autonomy Version	21.5	24.5		
SL01-100	1358×493×263	Standard/Hybrid Version	18.0	21.6	1400×525×150	1
		Long autonomy Version(921.6 WH)	25.5	29.5		
		Long autonomy Version(1228.8 WH)	28.0	32.0		

MOUNTING OPTIONS



ACCESSORIES

Remote control for solar power



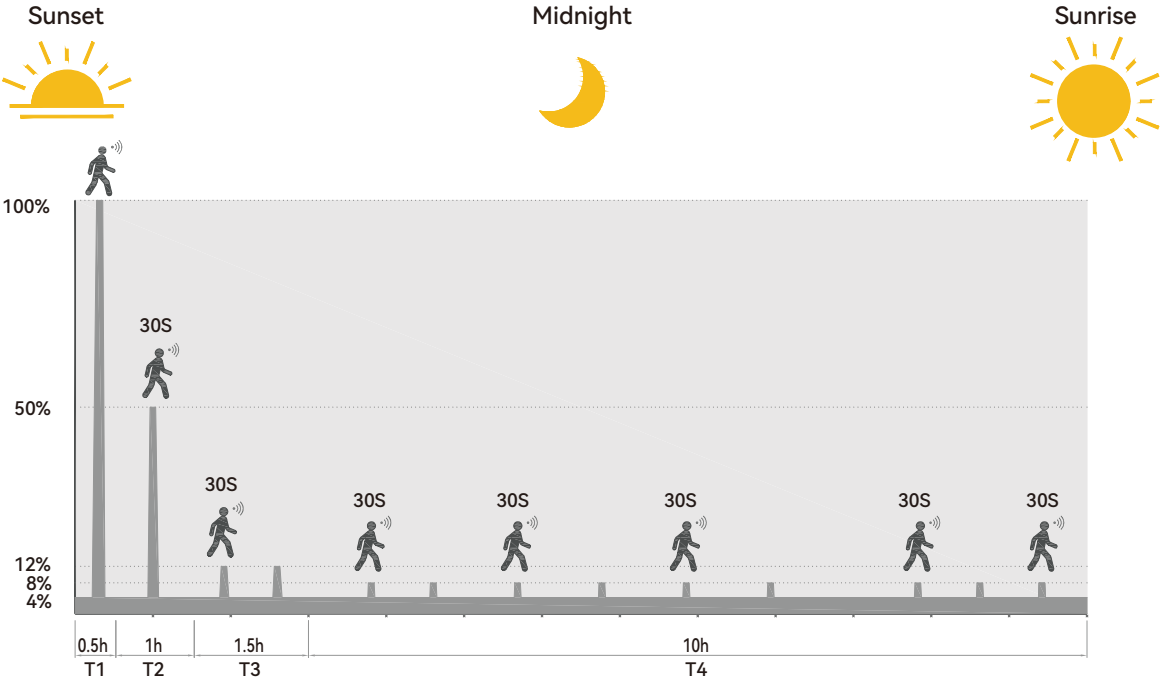
Code	Product weight(kg) ±6%		Package weight(kg) ±6%		Carton size(mm)	Qty/CTN
	N.W/PC	G.W/PC	N.W/CTN	G.W/CTN		
RC24G	0.12	0.17	6	9.5	340x330x265	50

Remote control for Hybrid solar power



Code	Product weight(kg) ±6%		Package weight(kg) ±6%		Carton size(mm)	Qty/CTN
	N.W/PC	G.W/PC	N.W/CTN	G.W/CTN		
8019-G	0.07	0.08	3.75	4.31	460x290x210	50

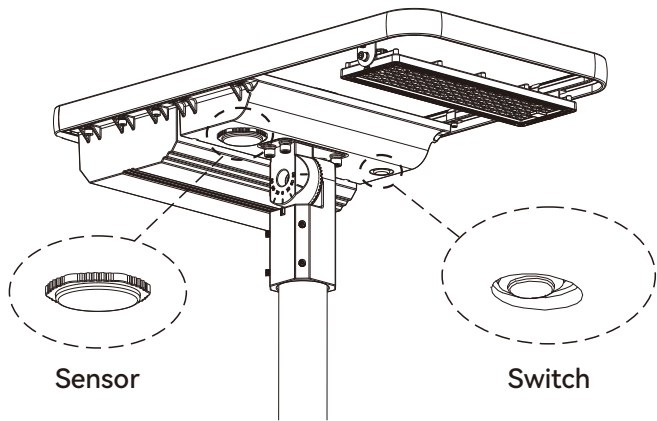
FACTORY DEFAULT WORKING MODE



Default Working mode (Intelligent Mode)		Time 1	Time 2	Time 3	Time 4
	Working hours	0.5h	1h	1.5h	10h
	Not detected	4%	4%	4%	4%
	Detected	100%	50%	12%	8%
	Light up for 30 seconds when detected				

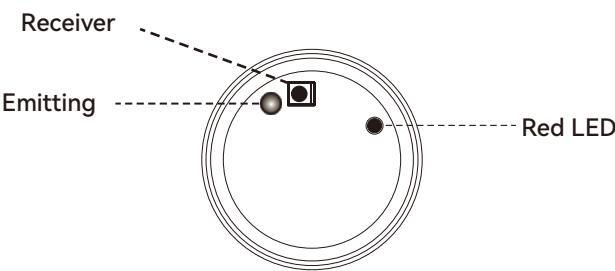
SWITCHES AND INDICATORS

Press the switch to wait for 5 seconds, the light will turn on. Press the switch again to turn off the light.

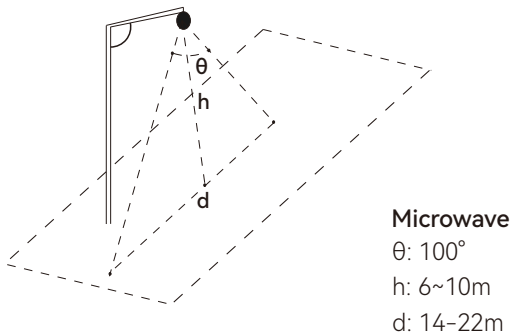


Microwave motion sensor

Sensor indicator



Sensing distance



Microwave sensor indicator status (Red LED)

Controller Status	Indicator status
Normal charging	1s cycle flashing
Normal working	ON
Alarm message exists	0.5s cycle flashing
Machine standby	2s cycle flashing



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