

Hybrilux

All-in-One Solar LED Street Light

A full range solar street luminaire with flexibility and low maintenance solution.



30-100W



195lm/W



IP66



LifePO4



Timer dim



Smart control



PIR



IK08



High flexibility

SL20-SOLAR SAIL ULTRA HIGH-CAPACITY BATTERY



ULTRA-HIGH
CAPACITY
BATTERY
DELIVERS
EXTENDED
RUNTIME



Sustainable Design

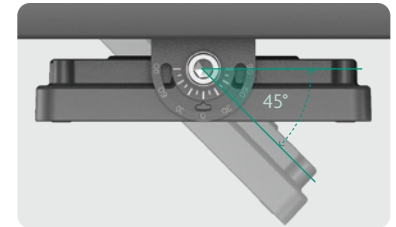
The battery box and LED module are replaceable, which facilitates storage and maintenance.



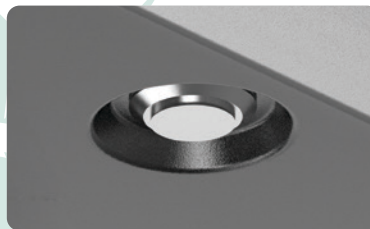
1. Microwave Sensor & MPPT Controller



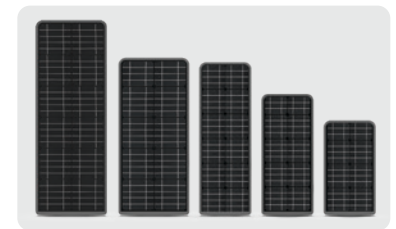
2. $\pm 45^\circ$ Adjustable and replaceable LED Module



3. On/Off Switch



4. Mono Crystalline Solar Panel



5. Aluminum Alloy Profile



6. Replaceable Battery Box (LiFePO4)



Description

The SL20 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



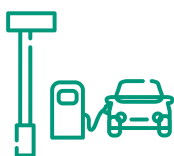
Urban road



Walk path



Courtyard



Open Car Parks



Park



Plazas



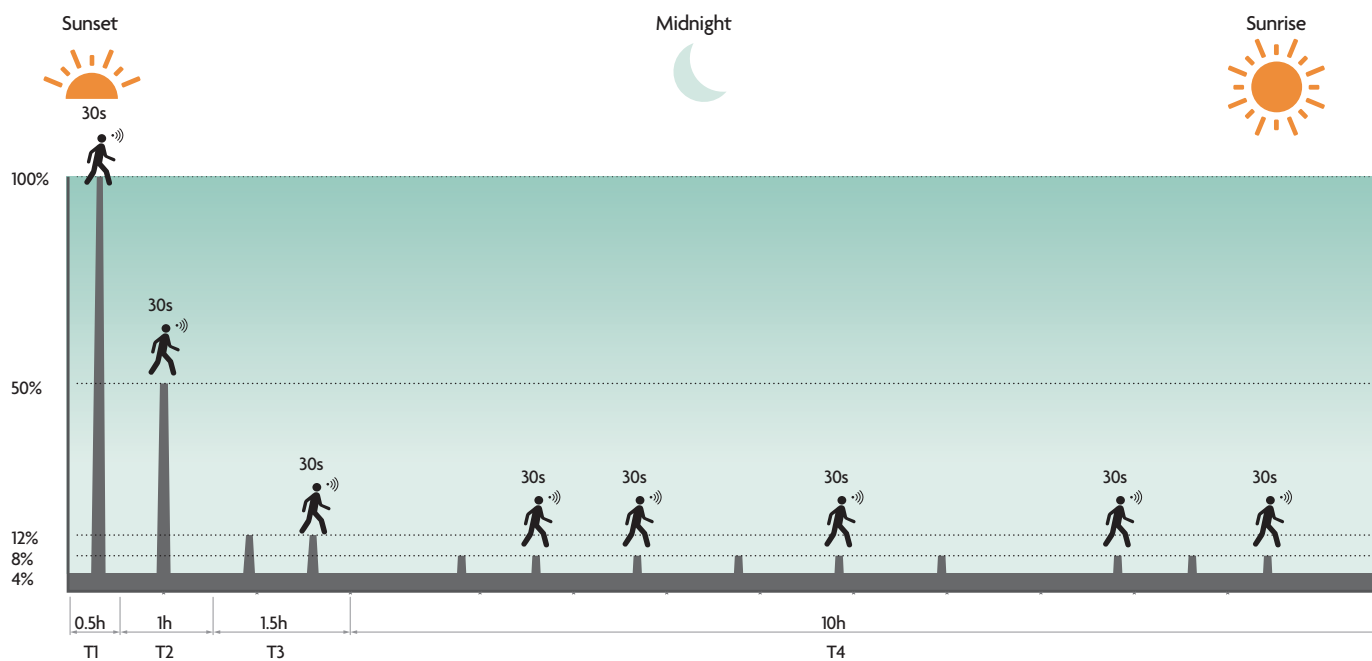
Highways/Main streets

Intelligent Control Mode

Built-in microwave sensor - When a person enters the sensing range, the corresponding brightness will light up according to the program setting, and it will enter dark mode when no one is around.



Timed dimming - You can set the 4-stage night mode of the lamp by yourself through the remote control. (You can also restore the factory settings in batches according to different needs)

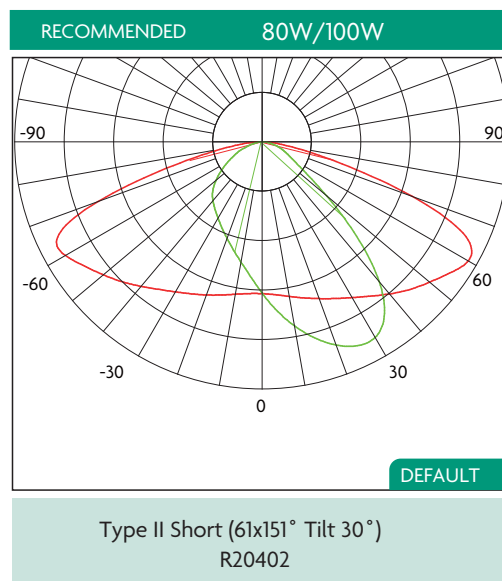
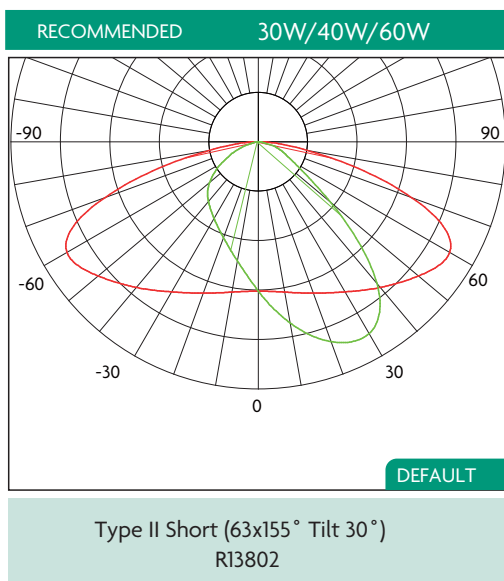


Default Working mode (intelligent Mode)		Time 1	Time 2	Time 3	Time 4
	Working hours	0.5h	1h	1.5h	10h
	Not detected	4%	4%	4%	4%
	Detected	100%	50%	12%	8%
Light up for 30 seconds when detected					

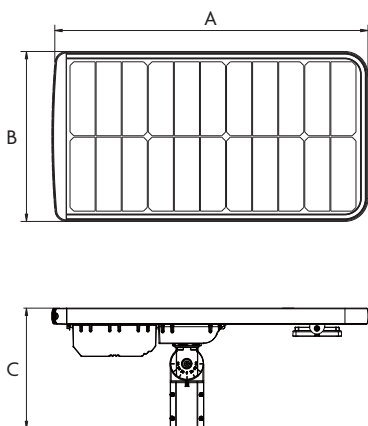
Technical Data

Code		Standard version					Long autonomy version					
		SL20-030/M	SL20-040/M	SL20-060/M	SL20-080/M	SL20-100/M	SL20-030/B	SL20-040/B	SL20-060/B	SL20-080/B	SL20-100/B	SL20-100/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 volatage(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										
Coloring 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@T _a =25°C (hrs)		62,100-L90B50										
		126,500-L80B50										
		167,500-L70B50										

Optics



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		
SL20-030	663×363×252	Standard/Hybrid Version	7.7	9.3	700×400×120	1
		Long autonomy Version	10.8	12.5	700×400×135	
SL20-040	848×363×252	Standard/Hybrid Version	8.9	10.8	895×400×120	1
		Long autonomy Version	12.5	14.0	895×400×135	
SL20-060	1075×363×252	Standard/Hybrid Version	11.8	14.4	1115×400×120	1
		Long autonomy Version	15.0	17.5	1115×400×135	
SL20-080	1098×493×263	Standard/Hybrid Version	15.8	19.0	1135×525×150	1
		Long autonomy Version	21.5	24.5		
SL20-100	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



30 - 60W

Pole mount spigot
aluminum alloy materials
(for dia 60mm pole)



80 - 100W

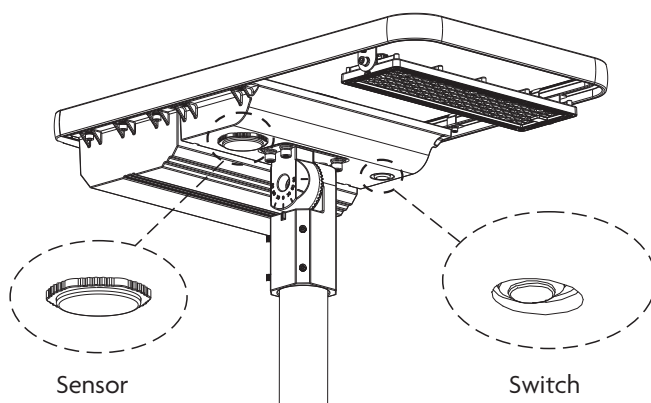
Pole mount spigot
aluminum alloy material
(for dia 60mm pole)



Remote control
Remote controller for solar street light

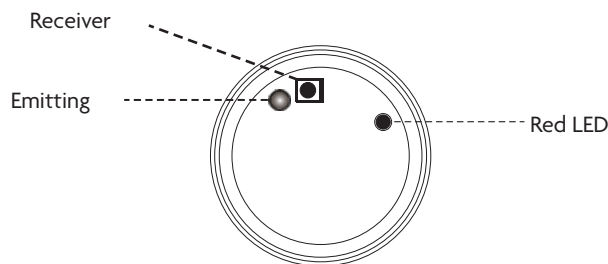
Switches And Indicators

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

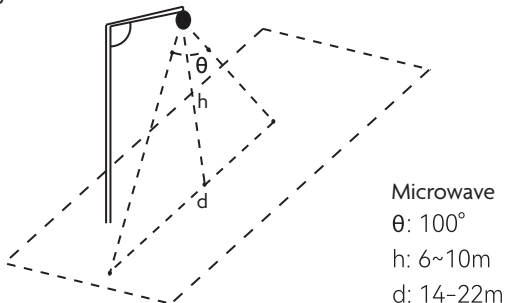


Microwave motion sensor

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