KIRITO



Up to 185lm/W

IP66

Ik08

CE

RoHS

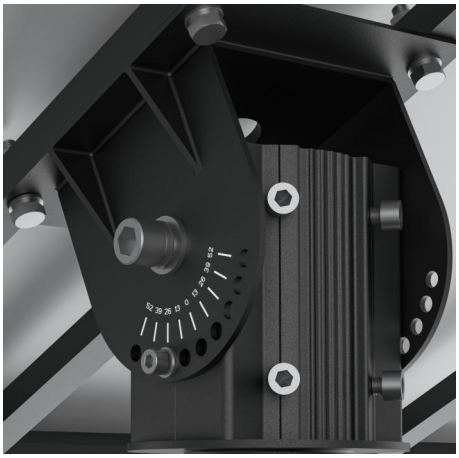
LED SOLAR FLOOD LIGHT

SL53

6100lm to 88000lm with Ultra-High Capacity Battery up to 4608Wh





Description

The SL53 is a high-performance split solar floodlight delivering up to 88,800lm at an exceptional 185 lm/W efficacy. It features an ultra-high capacity battery (up to 4608Wh) for reliable multi-day autonomy. With a 0°-52° adjustable solar panel and modular design, it maximizes solar harvesting for professional outdoor lighting.

Key Features

- Full power range covers from 30W to 480W
- Split design for easy maintenance and replacement
- Efficiency up to 185lm/w
- IP66 and IK08 protection ratings
- Ultra-high capacity battery up to 4608Wh
- Available in asymmetrical and symmetrical lighting distribution
- Solar panel 0° to 52° adjustable

Applications



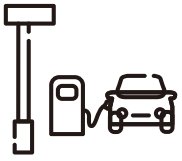
Area Site Lighting



Park



Plazas



Open Car Parks



Tennis Courts



Sport Fields



Outdoor Industrial and Logistics Areas



Architectural & Building Surrounds

GENERAL INFORMATION

Housing materials	Aluminum alloy
Housing finish	Powder coating
Optic materials	Polycarbonate
Fixture color	Black(RAL9017)
CCT selection	NO
Sensor	NO
Light source SDCM	<5
Impact resistance	IK08(Solar panel 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

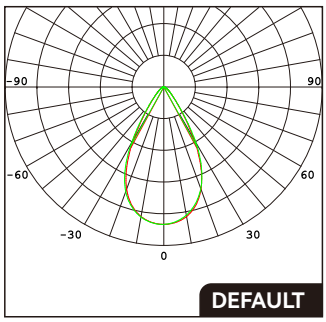
TECHNICAL DATA

Solar power

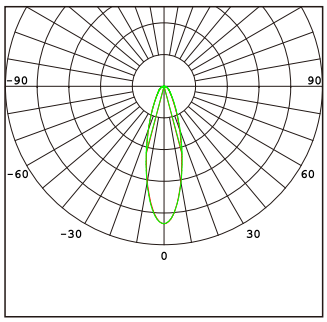
Code		SL53-030	SL53-060	SL53-100	SL53-150	SL53-200	SL53-240	SL53-480
Nominal wattage(W) ±5%		30	60	100	150	200	240	480
Solar panel type		Mono-crystalline						
Solar panel voltage(V)		18	18	36	36	36	36	36
Solar panel wattage(W)		105	128	250	320	360	360	720
Battery type		LiFePO4						
Battery ampere hour(Ah)		18	36	48	72	90	90	180
Battery voltage(V)		12.8	12.8	25.6	25.6	25.6	25.6	25.6
Battery capacity(Wh)		230.4	460.8	1228.8	1843.2	2304	2304	4608
Battery lifetime		>2,000 cycles (DOD. 80%)						
Charge controller type		MPPT						
Charging time(hrs)		2.5	4	5.5	6	7	7	7
Operating time(hrs)		Full power on 7-12hours, Intelligent mode: 2-3 days						
Electrical class		Class III						
Light source		LED2835						
Color rendering index		Ra70/Ra80						
General luminous efficacy(lm/W)		185lm/W @4000K Ra70						
Color temperature(K)		1-CCT: 3000K/4000K/5000K						
Luminous flux(lm) ±10% Ra70	1-CCT	5800-6100	10600-11700	17600-19400	25800-27700	34900-38300	40500-44400	81000-88800
Luminous flux(lm) ±10% Ra80	1-CCT	5500-5900	10000-10700	16700-17800	24100-25200	32900-34700	38100-40300	76200-80600
Beam angle		F01602/F01604/F01605/F01609						
Solar panel windage area(SCx)(m^2)		0.66	0.80	1.31	1.86	2.09	2.09	3.07
Operating temperature(°C)		0 to +50						
Lifespan of LED@Ta=25°C(hrs)		62,100-L90B50						
		126,500-L80B50						
		167,500-L70B50						

OPTICS

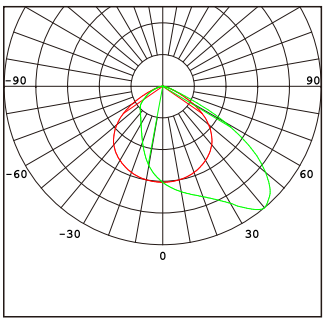
RECOMMENDED



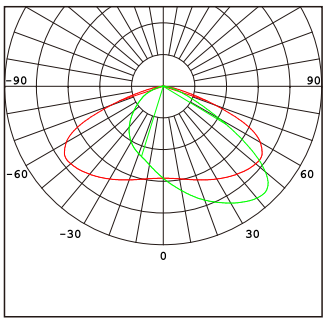
Symmetrical 60°
F01605



Symmetrical 30°
F01604

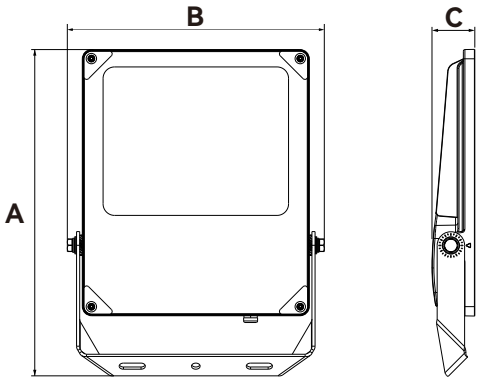


Asymmetrical intense 55°
F01602



Asymmetrical intense 50°
F01609

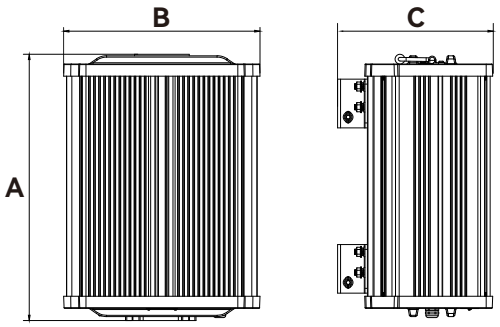
MEASUREMENT



Luminaire

Product code	Dimensions AxBxC(mm)	Product weight (kg) ±6% N.W/PC	Package weight (kg) ±6% G.W/CTN	Carton size (mm)	Qty/ CTN
SL53-030	366x315x55	3	3.5	385x350x80	1
SL53-060					
SL53-100	417x328x55	4	4.4	435x365x80	
SL53-150	456x390x55	5	5.6	475x425x80	
SL53-200	504x343x63	6.3	7.3	525x475x85	
SL53-240					
SL53-480	504x343x63 (x2 sets)	12.6 (6.3x2)	14.6 (7.3x2)	525x475x85 (x2 sets)	1set/2ctns

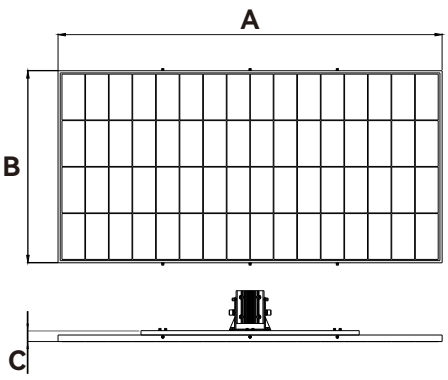
Note: SL53-480 consists of 2pcs of Luminaire Packed in 2 separate cartons.



Battery Box

Product code	Battery Box code	Dimensions AxBxC(mm)	Product weight (kg) ±6% N.W/PC	Product weight (kg) ±6% G.W/PC	Carton size (mm)	Qty/ CTN
SL53-030	SL06-230	382x170x130	3.8	5	400x220x175	1
SL53-060	SL06-460	396x191x161	8.7	10	415x260x205	1
SL53-100	SL06-1228	526x258x170	15.5	16.8	555x330x230	1
SL53-150	SL06-1843	361x323x255	26.5	28.5	460x385x340	1
SL53-200	SL06-2304	438x323x255	30.0	32.5	535x385x340	1
SL53-240						
SL53-480	SL06-2304	438x323x255 (x2 sets)	60 (30x2)	65 (32.5x2)	535x385x340 (x2 sets)	1set/2ctns

Note: SL53-480 consists of 2pcs of Battery Box Packed in 2 separate cartons.

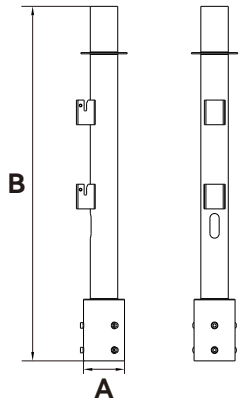


Solar Panel

Product code	Solar Panel Power(W)	Dimensions AxBxC(mm)	Product weight (kg) ±6% N.W/PC	Product weight (kg) ±6% G.W/PC	Carton size (mm)	Qty/ CTN
SL53-030	105	820x670x45	9	13.5	910x760x135	1
SL53-060	128	1000x670x45	10.5	15	1095x760x135	1
SL53-100	250	1340x880x50	20	25	1455x170x1000	1
SL53-150	320	1760x880x50	23.7	30	1880x175x1005	1
SL53-200	360	1980x880x50	24.7	31.5	2100x175x1005	1
SL53-240						
SL53-480	720	1980x880x30 (x2 sets)	37 (18.5x2)	50 (25x2)	2100x175x1005 (x2 sets)	1set/2ctns

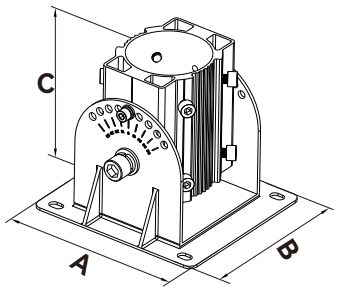
Note: SL53-480 consists of 2pcs of Solar Panel Packed in 2 separate cartons.

Mounting Pole



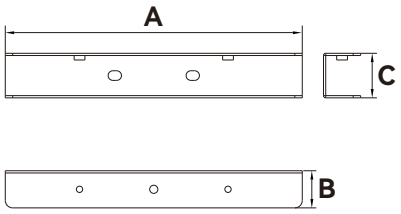
Product code	Dimensions AxB(mm)	Product weight (kg) ±6%	Package weight (kg) ±6%	Carton size (mm)	Qty/ CTN
		N.W/PC	G.W/CTN		
SP-SL53-03 (30-100W)	Ø89x1150	7.8	10.3	1225x210x220	1
SP-SL53-04 (150W)	Ø133x1150	12.5	15	1225x210x220	1
SP-SL53-05 (200-240W)	Ø133x1150	12.5	15	1225x210x220	1
SP-SL53-06 (480W)	Ø133x1150	13.5	16	1225x210x220	1

Solar panel support



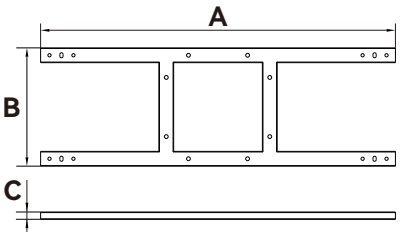
Product code	Dimensions AxBxC(mm)	Product weight (kg) ±6%	Package weight (kg) ±6%	Carton size (mm)	Qty/ CTN
		N.W/PC	G.W/CTN		
SP-SL53-01 (30-240W)	210x190x184	4	5	260x240x240	1
SP-SL53-02 (480W)	400x400x188	8.7	11.2	470x470x240	1

Luminaire Mounting Bracket



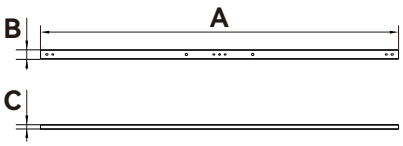
Code	Dimensions AxBxC(mm)	Product weight(kg) ±6%		Package weight(kg) ±6%		Carton size (mm)	Qty/ CTN
		N.W/PC	G.W/PC	N.W/CTN	G.W/CTN		
SL53-030	305x50x60	1.2	-	4.8	7.6	355x355x120	4
SL53-060							
SL53-100							
SL53-150	400x50x60	1.7	-	6.8	11	450x355x120	4
SL53-200							
SL53-240							
SL53-480	900x50x60	3.5	-	14	15.5	955x355x120	4

480W Solar Panel Mounting Bracket



Code	Dimensions AxBxC(mm)	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		
SL53-480	1200x400x25	9.5	-	19	21.7	1275x160x480	4

480W Solar Panel Mounting Crossbeam



Code	Dimensions AxBxC(mm)	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		
SL53-480	1890x50x25	4	-	16	18.5	1965x150x180	4

MOUNTING OPTIONS



60mm-76mm pole mounting
(30W-100W)



120mm pole mounting
(150W-480W)

ACCESSORIES

Remote control (For parameter programming)



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

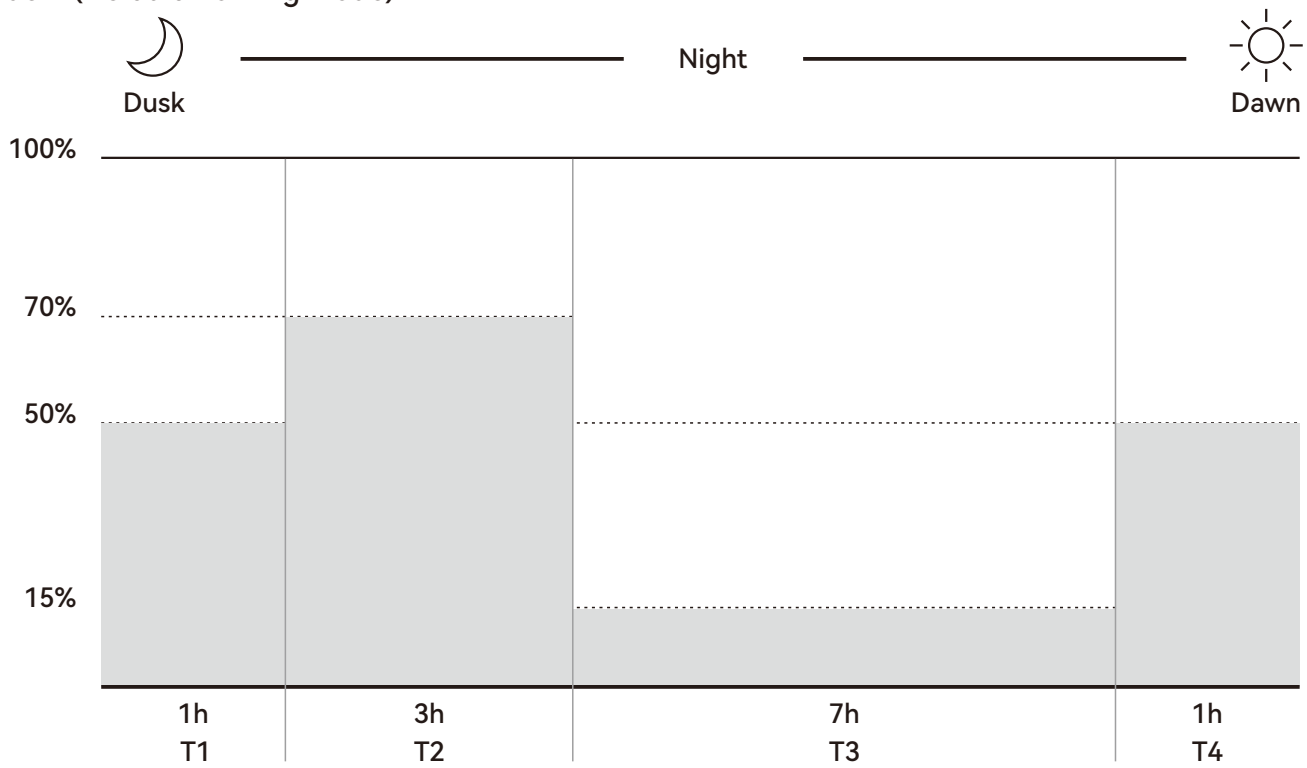
Remote control (For selecting working mode: Mode A/Mode B/Mode C)



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		
RC-ABC	0.06	0.08	4.00	4.5	400x220x175	50

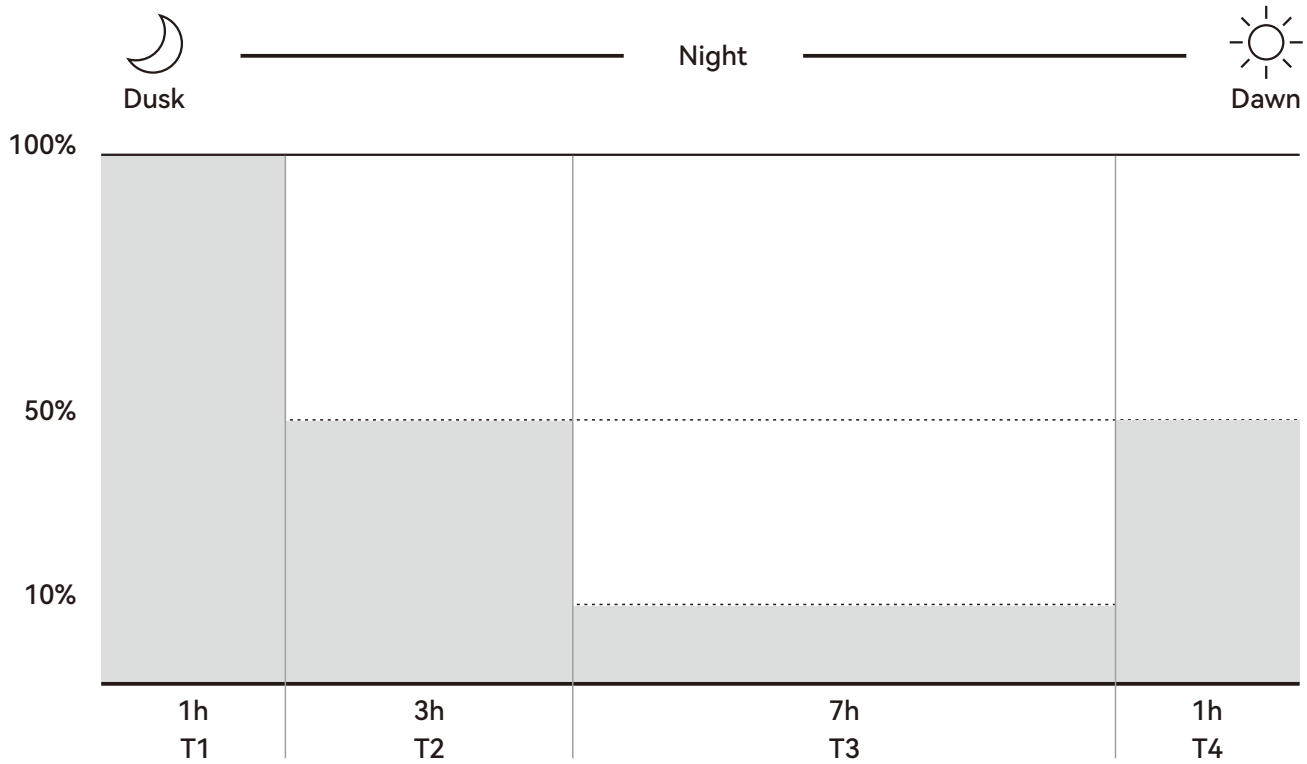
FACTORY DEFAULT WORKING MODE

Mode A (Default working mode)



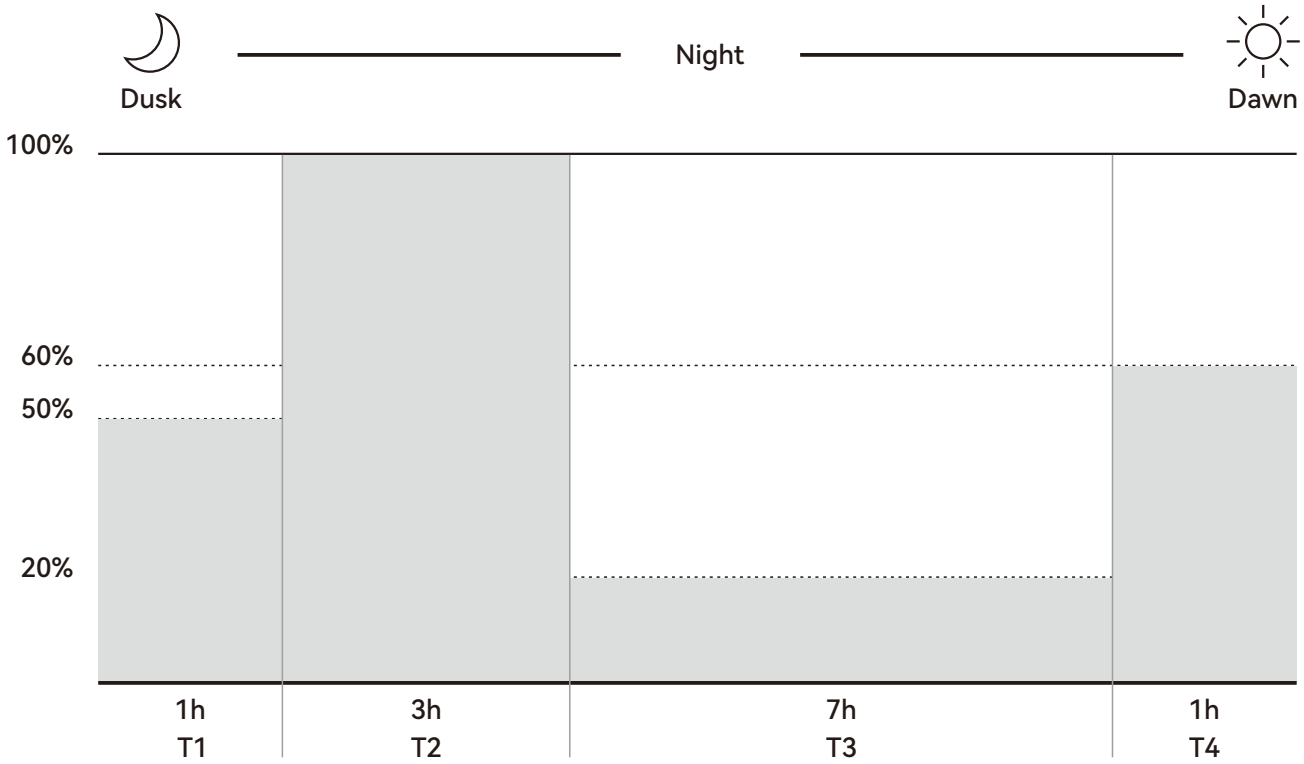
	Time 1	Time 2	Time 3	Time 4
Working hours	1h	3h	7h	1h
Not detected	50%	70%	15%	50%
Runtime: operates for 2-3 days on a full charge				

Mode B



	Time 1	Time 2	Time 3	Time 4
Working hours	1h	3h	7h	1h
Not detected	100%	50%	10%	50%
Runtime: operates for 2-3 days on a full charge				

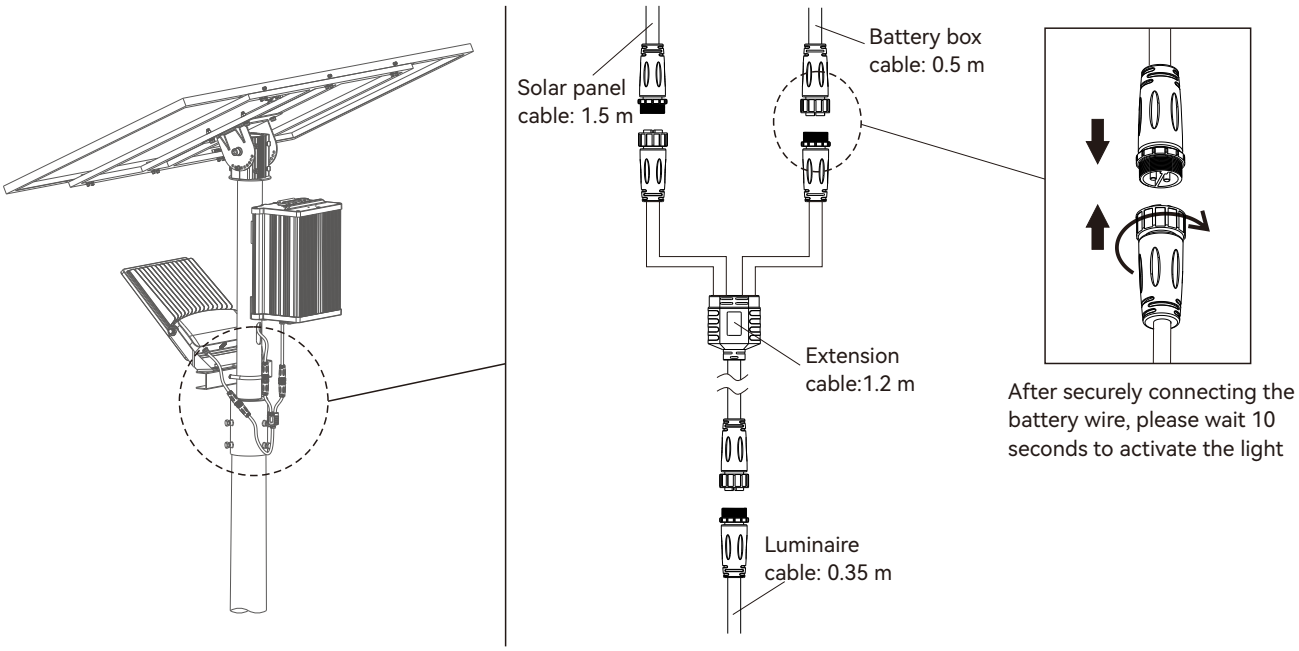
Mode C



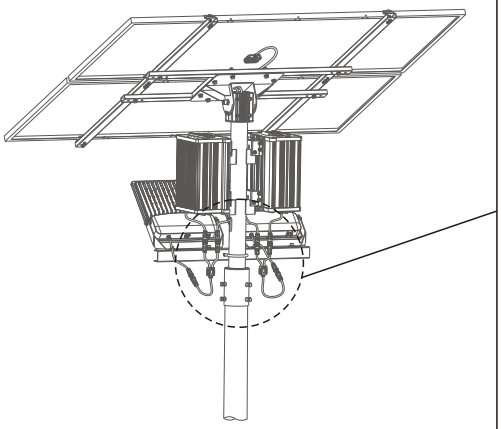
	Time 1	Time 2	Time 3	Time 4
Working hours	1h	3h	7h	1h
Not detected	50%	100%	20%	60%
Runtime: operates for 1.5-2 days on a full charge				

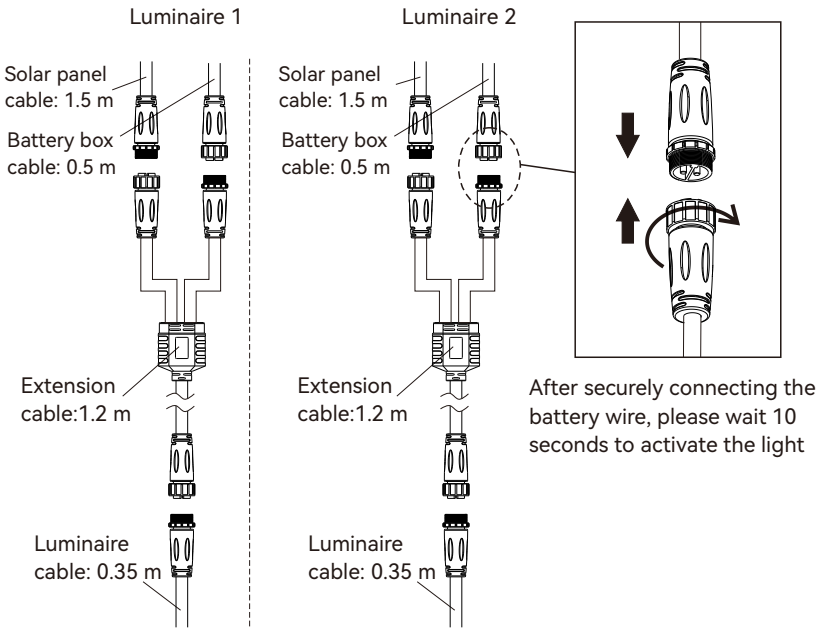
CONNECT WIRE

30W~240W



480W



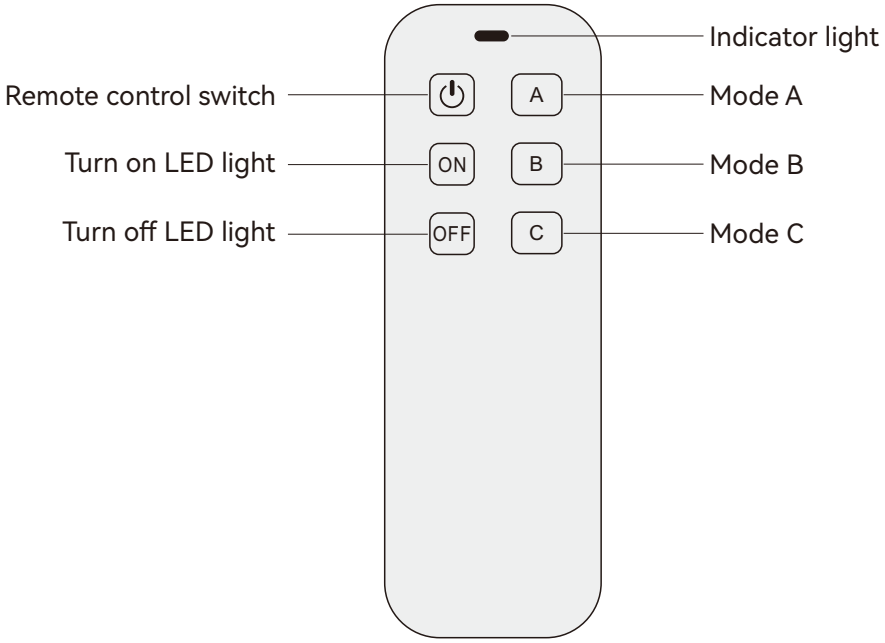


REMOTE CONTROL PROGRAM SETTING

RC24G

Item	Setting range	Description	30-60W	100-240W
			Default Setting	Default Setting
Bat Type	Lead_24V/Lead_12V/ Li_12V/Li_24V	Battery type	Li_12V	Li_24V
BoostCharge	12~32.8	Charging voltage target	14.4V	28.8V
Voltage Low	8.5~24	Low voltage disconnect	10.5	21
Recover Vol	10.2~25	Low voltage reconnect	11.5	23
PowerSaving	ON/OFF	Power Saving Mode	ON	ON
StartSaving	8.5~28	Energy-Saving start voltage	12.8V	25.6V
SuperSaving	8.5~28	Super power-saving voltage	12V	24V
TurnOnPVVol	4.0-12.0	Day/Night threshold voltage	5V	10V
Output Cur	50-4000mA	Output current	30W: 1230mA / 60W: 2400mA	100W: 3000mA / 150W: 3500mA / 200W: 3000mA / 240W: 3350mA
Drive Mode	Sense/Time	Device control mode	Time	Time
First Time	0~9H	The first working time	1H	1H
Light Ratio	0~100%	Light fixture dimming level	50%	50%
Second Time	0~9H	The second working time	3H	3H
Light Ratio	0~100%	Light fixture dimming level	70%	70%
Third Time	0~9H	The third working time	7h	7h
Light Ratio	0~100%	Light fixture dimming level	15%	15%
Fourth Time	0~9H	The fourth working time	1h	1h
Light Ratio	0~100%	Light fixture dimming level	50%	50%
Fifth Time	0~9H	The fifth working time	0H	0H
Light Ratio	0~100%	Light fixture dimming level	0%	0%
MorningLight	Off/On	Early morning re-illumination	Off	Off
Device	M3 series/M12 series/ P3 series/P12 series	Device type	M12 series	M12 series
WorkMode	2.4G Radio/2.4G Scan/nfrared	Control mode	2.4G Radio	2.4G Radio
Distance	ULtrashort/ULtraLong/ Long/normal/Short	Control distance	Ultrashort	Ultrashort

RC-ABC (Instructions)



This remote control is powered by two 1.5V AA batteries. It can turn the LED light on and off with a single click and write parameters to the controller with one button press.

- **Remote control switch:** When the remote control is off, press this button once, and the remote control will turn on with the indicator light on. When the remote control is on, long-press this button for 4 - 5 seconds and then release it, and the remote control will turn off with the indicator light off.
- **Turn on LED light:** When the lamp is off, aim the remote control at the transmitter and receiver of the controller and press this button once, and the LED light will turn on.
- **Turn off LED light:** When the lamp is on, aim the remote control at the transmitter and receiver of the controller and press this button once, and the LED light will turn off.
- **Mode A, B, C:** Please refer to FACTORY DEFAULT WORKING MODE.

LIGHT YOUR WAY

KIRITO

ADDITIONAL PRODUCT SPECIFICATIONS

Series Code	SL53
Power	30W, 60W, 100W, 150W, 200W, 240W, 480W
Efficacy	185lm/W
CCT	3000K, 4000K, 5000K
CRI(Ra)	70, 80
Corrosion Class	C3
IP Rating	IP66
IK Rating	IK08
Mounting Option	Pole Mounting
Warranty	3 years for battey, 5 years for other parts
Operating Temperature	0°C to + 50°C

The SL53 split solar floodlight delivers up to 185 lm/W and features an ultra-large LiFePO4 battery capacity up to 4,608 Wh. Its MPPT controller ensures reliable 2-3 day backup power during prolonged overcast or rainy weather. Designed for optimal energy capture, the modular solar panel offers full horizontal 360° rotation alongside 0°–52° tilt adjustment. The independently suspended die-cast aluminum battery housing ensures excellent thermal management, fast maintenance, and easy module replacement. Operation is simple and adaptable thanks to a dual-remote control system and three factory-preset modes tailored for both professional configuration and everyday management.

KIRITO

PRODUCT VIEWS



VIEW 1



VIEW 2



VIEW 3



VIEW 4

PRODUCT VIEWS



VIEW 5