Road Smart

Solar Beatle Light

Indoor daytime lighting available

Both Indoor and Outdoor lighting

Both day and night lighting

Can charge and discharge at the same time



www.roadsmartsolar.com

Integrate the solar panel, led body, battery and controller into whole system. Easy to transport, install and maintain.





BL20000



BL30000/BL40000
BL50000/BL60000



BL80000/BL90000

Core Technologies

Light Distribution Management
Patent PC lens, special light distribution for rural area.

IPC 5.0 Technology
5.0 version IPC technology (intelligent power control 5.0). It will intelligently detect recent weather conditions, reasonably plan the discharge power to achieve more rainy days.

Fashionable Design
Beautiful “Beetle” design, making your house or villa to become the most beautiful garden.

Charge and Discharge Management
Protect battery by software and hardware, supporting battery charge at 0v.2000times cycle charge and discharge, 8 years lifespan.

Light Efficiency Management
Patent led chip with high efficiency, the whole system lighting efficiency has been improved to 160lm/w.

Working Mode

7 working modes

DEMO: No matter day or night, light "on" for 1 minute. Only for test use

OFF: Light "off", no matter day or night

12H: At night, 100%-2hrs, 60%-3hrs, 20%-dawn

8H : At night,100%-3hr, 50%-3hrs, 30%-2hrs

6H: At night, 100%-3hrs, 50%-3hrs

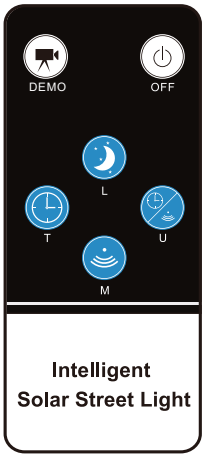
6H: At night, 100%-3hrs, 50%-3hrs(Highlight mode)

Only BL30000/BL40000/BL50000/BL60000

ON: Whether it is day or night, the light is 100% bright（Highlight mode）



BL30000/BL40000
BL50000/BL60000



BL80000/BL90000

Note:

The default factory light control is (light up at night,light off at day).

1.Press the “ON” button to turn on the light via remote control, and the lamp will stay on regardless of the light.

2.Press the “OFF” button to turn off the light, and the lamp will remain off. It is not affected by the light.

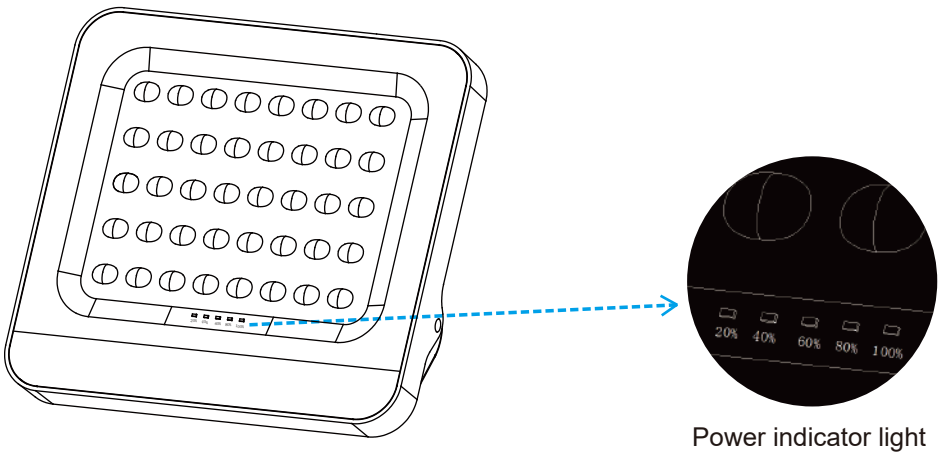
3.The function of “ON” is to light up the lamp when the light was installed indoor area where need light at day time (For example ,plaza,underground parking lot,warehouse).

4.Press “12H” can back to default mode.Or you can choose other working mode.Press “OFF”the light will not light until you choose other working mode.

5.If the light was installed outdoor ,attention don’t press “ON”,or it will effect the light duration at night.

6.When in Highlight mode， default 100% light power will up to 130%.

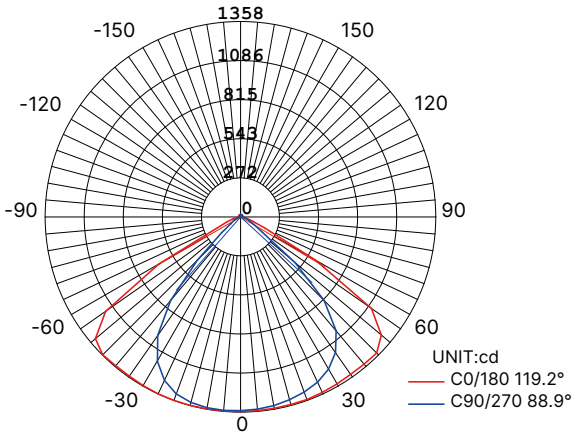
Power indicator function



Power indicator light

Light Distribution

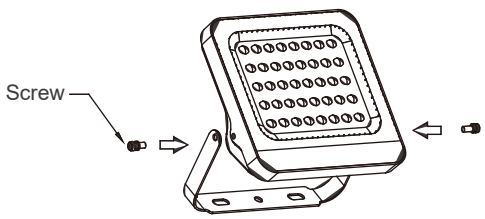
Luminous intensity distribution curves.



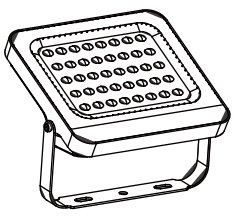
AVERAGE BEAM ANGLE(50%):104.0 DEG

Installation Guide

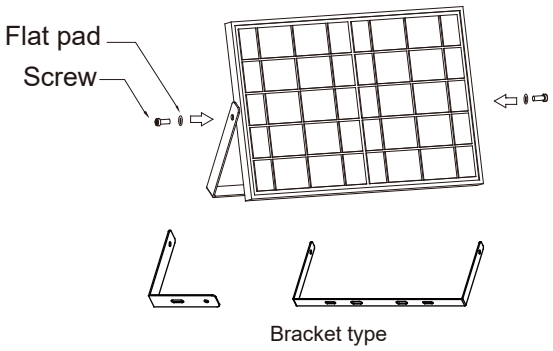
Assembling



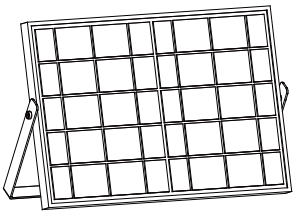
1. Fix bracket on light part through both sides holes.



2. Light part assembling finish.

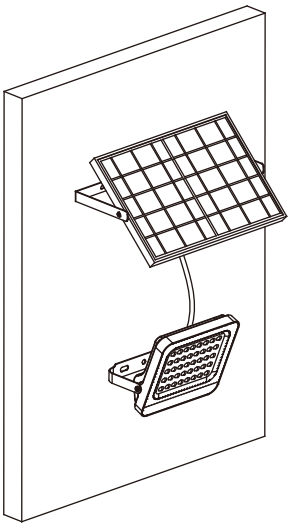


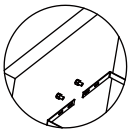
3.The bracket is aligned with the holes on both sides of solar panel, and fixed by screw and washer.



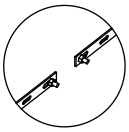
4. Solar panel assembling completed.

P.S : RS-BL50000 do not match panel bracket.





A.Drive the expansion screw into the wall.

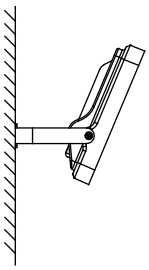


B.Nut locking bracket.

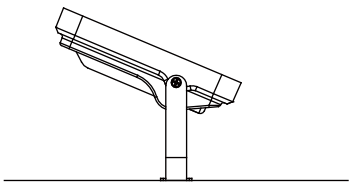


C.Pay attention to the waterproof joint anti-reverse connection.

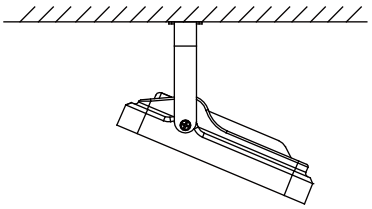
Light part installation



1.On wall

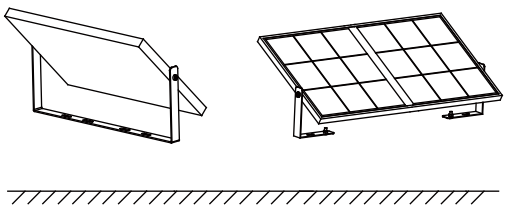


2.On ground

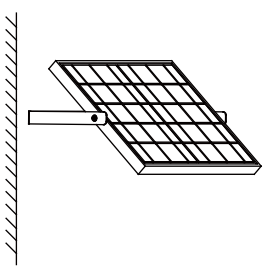


3.Ceiling mounted

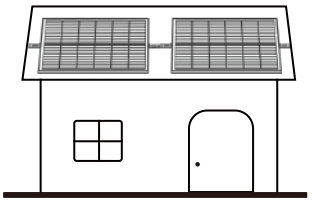
Solar part installation



1.On ground



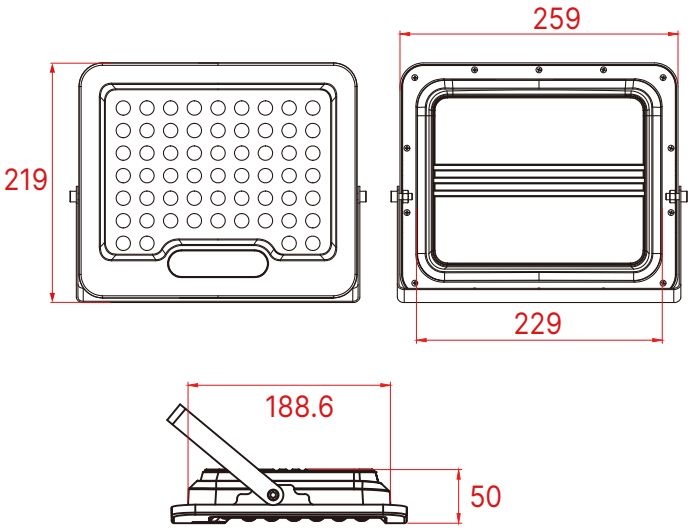
2.On wall



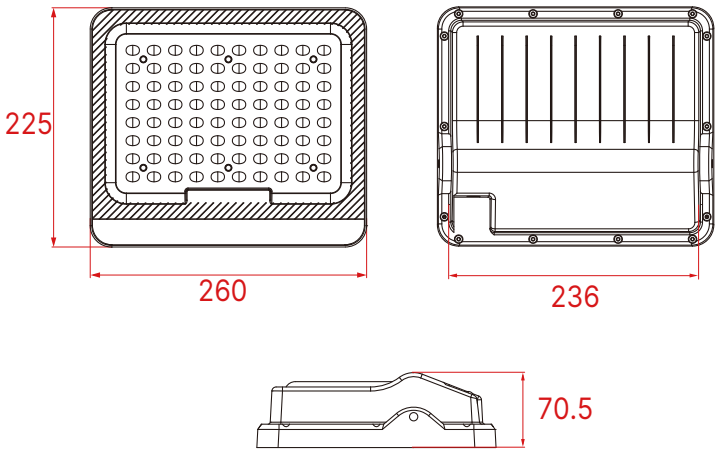
3.On rooftop

Dimension

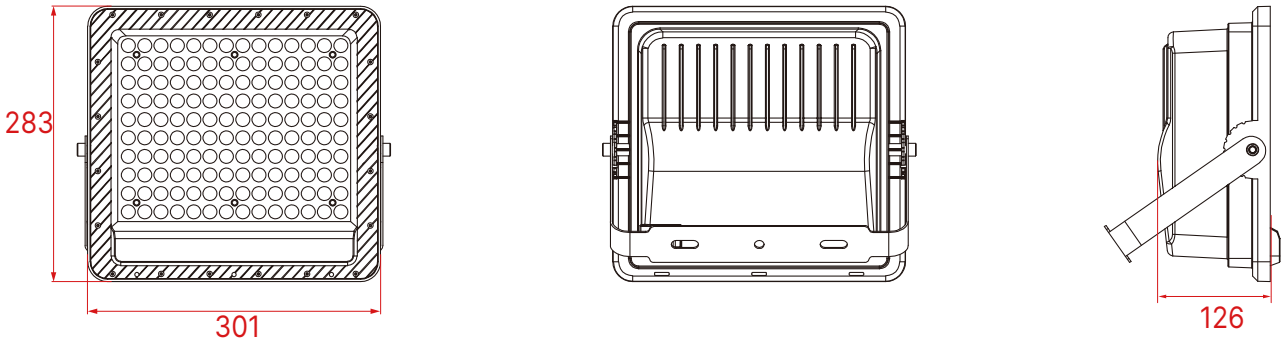
BL20000



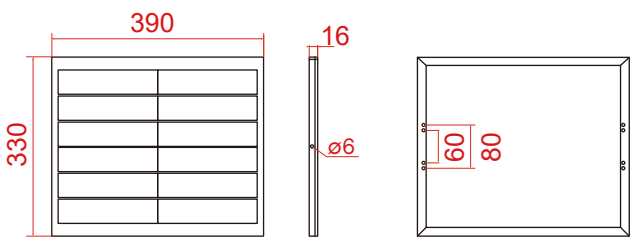
BL30000/BL40000/BL50000/BL60000



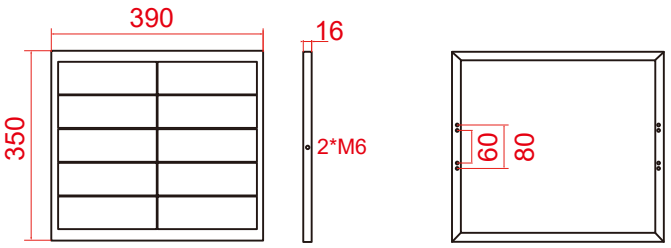
BL80000/BL90000



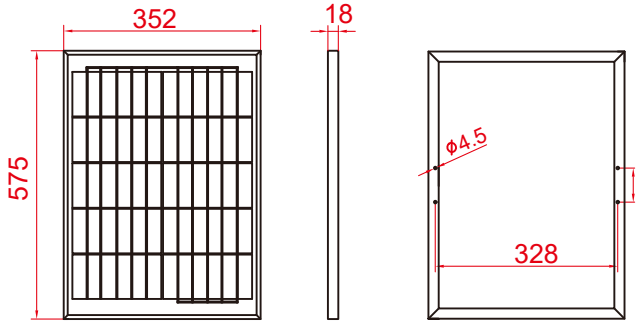
Solar panel



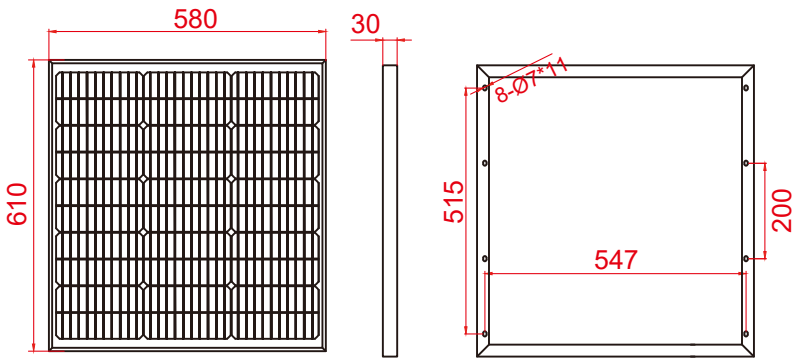
20W



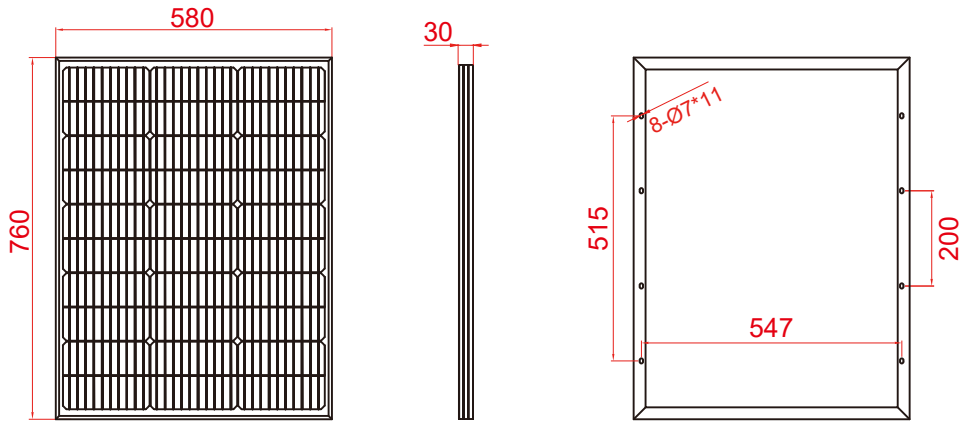
25W



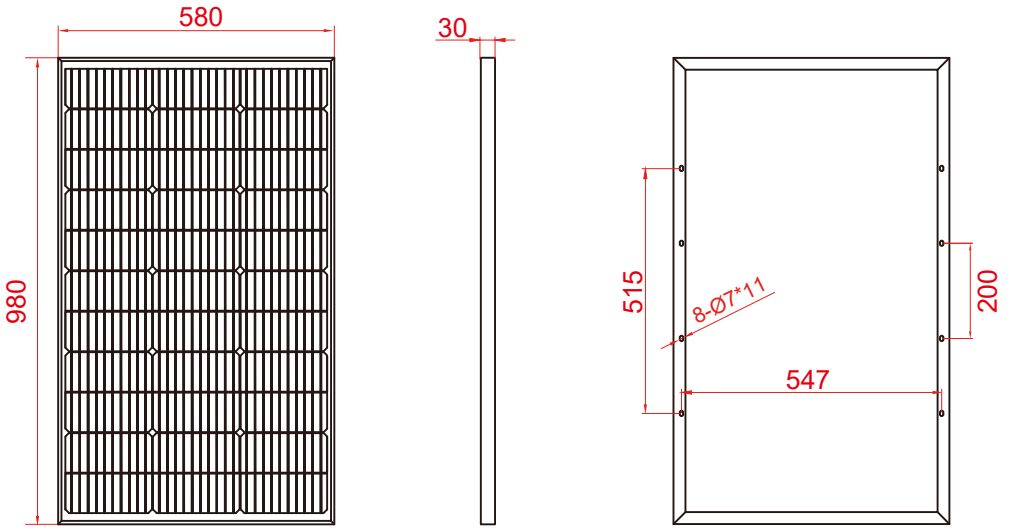
30W



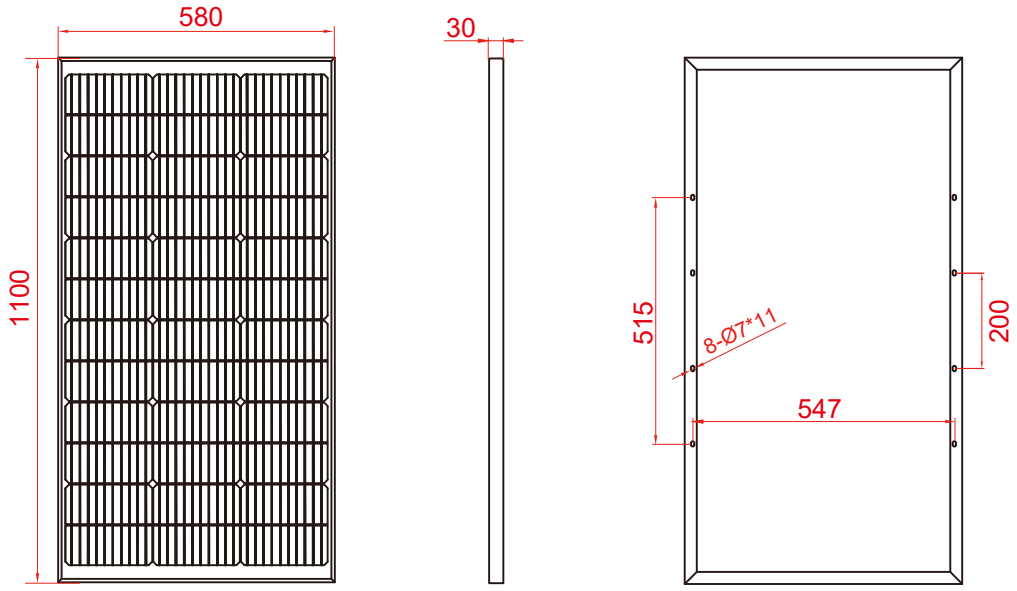
60W



80W



100W



120W

Parameter

Type	RS-BL20000	RS-BL30000	RS-BL40000	RS-BL50000
Panel				
Power	20W/5V	25W/5V	30W/5V	60W/5V
Material	polycrystalline silicon			Monocrystalline silicon
Solar cell efficiency	19-20%			
LiFePO4 battery				
Capacity	96WH/30AH	64WH/20AH	144WH/45AH	192WH/60AH
Charge cycle times	2000 times			
Lamp head				
Luminous flux	2000-2100lm	1600-1700lm	2600-2700lm	3300-3600lm
Light output	12W	9W	15W	20W
LED qty	58 pcs	80 pcs		
Color temperature	3000-7500K			
CRI	>70Ra			
Material of lamp head	Aluminium+PC			
Lifespan	50000hrs			
Beam angle	150*70			
System				
Lighting time (full charged)	2-3rainy days			
Operation temperature	-20℃~60℃			
Installation options	pole, lawn, wall			

Type	RS-BL60000	RS-BL80000	RS-BL90000
Panel			
Power	80W/5V	100W/18V	120W/18V
Material	Monocrystalline silicon		
Solar cell efficiency	19-20%		
LiFePO4 battery			
Capacity	256WH/80AH	384WH/120AH	480WH/150AH
Charge cycle times	2000 times		
Lamp head			
Luminous flux	4500-5400lm	7500-9000lm	9000-10800lm
Light output	30W	50W	60W
LED qty	80 pcs	140 pcs	
Color temperature	3000-7500K		
CRI	>70Ra		
Material of lamp head	Aluminium+PC		
Lifespan	50000hrs		
Beam angle	150*70		
System			
Lighting time (full charged)	2-3rainy days		
Operation temperature	-20℃~60℃		
Installation options	pole, lawn, wall		

Application





