FLUX

Multifunctional Flood Light
6W 20W
Installation Manual

SOLTECH Provides Advanced LED
Technology Powered With Eco-friendly,
Clean, Solar Energy.

SOLTECH
Smart Solar Lighting

01 **Introduction**

Thank you for purchasing FLUX Multifunctional Flood Light Products.

Important

Please read these instructions before installation to ensure optimum results and longevity of your lights. The solar panel should be charged in full sunlight for 8 to 9 hours before initial first use to provide optimum results.
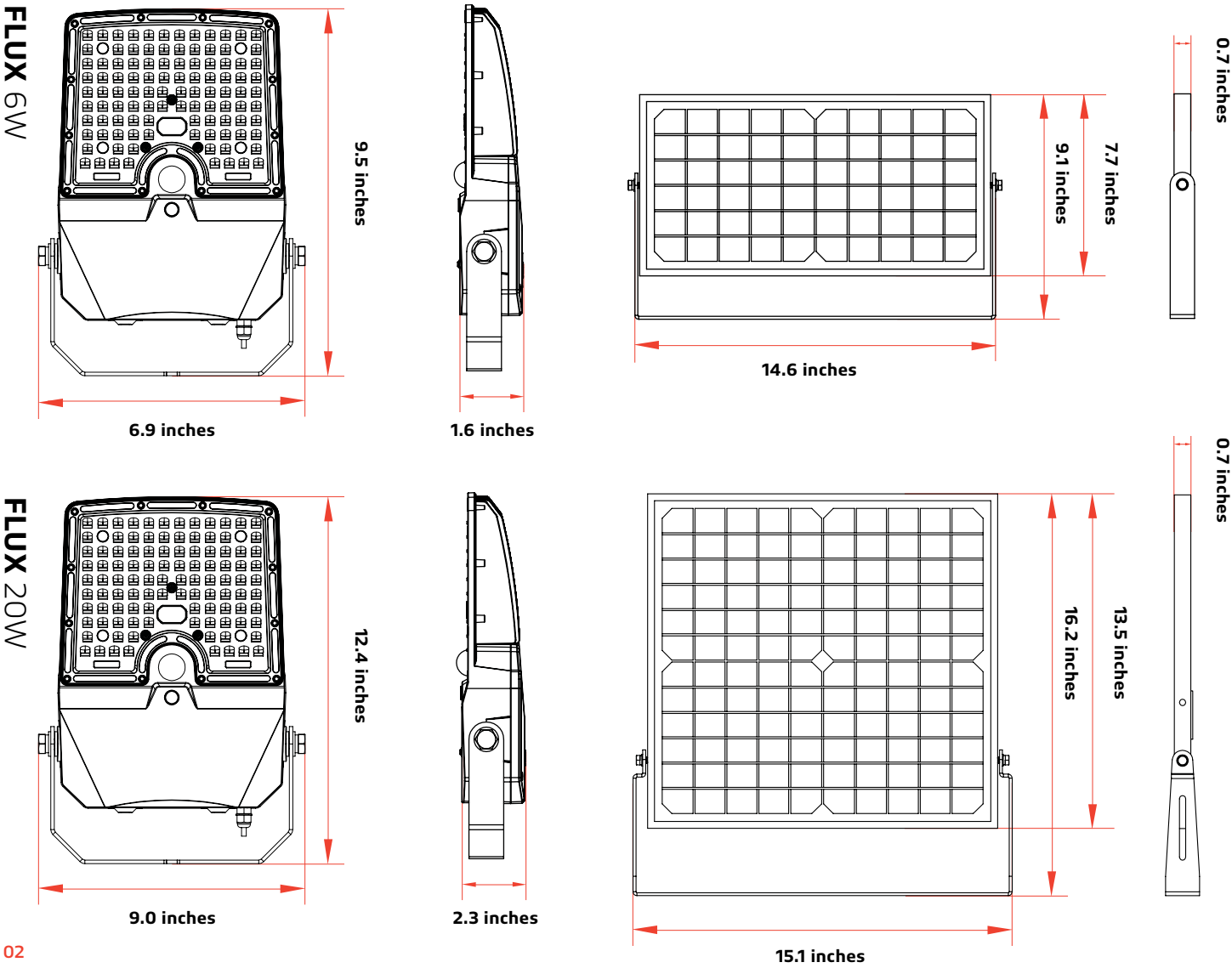
Features

- Eliminates trenching, cabling, and electricity costs
- Solar panel bracket is 360 degrees adjustable, and the light module is 270 degrees adjustable. Adjusting the solar panel angle maximizes solar energy collection, and allows snow, dirt, and other debris to slide or wash off
- Large battery capacity of 7,680 mAh enables long run times and high light output
- Wall-mounting and post-mounting accessories available
- The latest advanced Li-ion battery lasts 2000+ charging cycles.
- 7 operating modes are programmable via remote control or controls on the fixture
- IP66 rated protection from water, dirt, and dust
- The easiest way to bring lighting to any outdoor application
- Photo and motion sensors, wide angle 360° detection, high sensitivity

Notice & Warning

1. The FLUX will provide optimal performance where there is direct sunshine.
2. Please note the lighting run time depends on sunshine duration and weather.
3. The fixture will turn on automatically at dusk.
4. Built-in intelligent IC provides over-charge, over-discharge, and over-voltage protection.
5. Do not disassemble the fixture.
6. Do not dispose of the battery with household garbage, to avoid explosion.

Please Note

During continuous rainy or cloudy days, run time may be reduced as the battery will not be fully charged.

FLUX 6W

9.5 inches

6.9 inches

1.6 inches

7.7 inches

9.1 inches

14.6 inches

0.7 inches

FLUX 20W

12.4 inches

9.0 inches

2.3 inches

13.5 inches

16.2 inches

15.1 inches

0.7 inches

02 **Specification**

Specifications	FLUX 6W	FLUX 20W
LED Nominal Power	6W	20W
Solar Panel	Mono-Crystalline 10V 10W	Mono-Crystalline 10V 20W
LiFePO$_4$ Battery	6.4V 3AH	6.4V 12AH
CCT	4,000K	4,000K
Lumen Output@4000K	1,020	3,400
CRI	> 70	> 70
Product Size	Light Head 9.5 X 6.9 X 1.6 Inches Solar Panel 7.7 X 14.6 X 0.7 Inches	Light Head 12.4 X 9.0 X 2.3 Inches Solar Panel 13.5 X 15.1 X 0.7 Inches
Beam Spread	>130°, NEMA type 7 Very Wide	>130°, NEMA type 7 Very Wide
Cable Length	16.5 ft	16.5 ft
IP Rating	IP66	IP66
Casting	PC & Aluminum	PC & Aluminum
Efficiency@4000K	170 lm/W	170 lm/W
*Charging Time	6hrs (1000W/m²)	6hrs (1000W/m²)
Run Time (@Full Charged)	5–7 Rainy Days	5–7 Rainy Days
Operation Mode	7 Operating Modes	7 Operating Modes
PIR Sensor Angle / Distance	360° / 16.4 ft	360° / 16.4 ft
*Operating Temperature	-4 °F to 122 °F	-4 °F to 122 °F
*Charging Temperature	32 °F to 149 °F	32 °F to 149 °F

Ordering Information Chart

SERIES	WATTAGE	COLOR TEMPERATURE	MOUNTING OPTIONS	FINISH
STL-FLX=FLUX	**6**=6W 1,020 Lumens **20**=20W 3,400 Lumens	**4**=4,000K	**WM**=Wall Mount **PM**=Pole Mount	**GY**=GRAY **BZ**=BRONZE

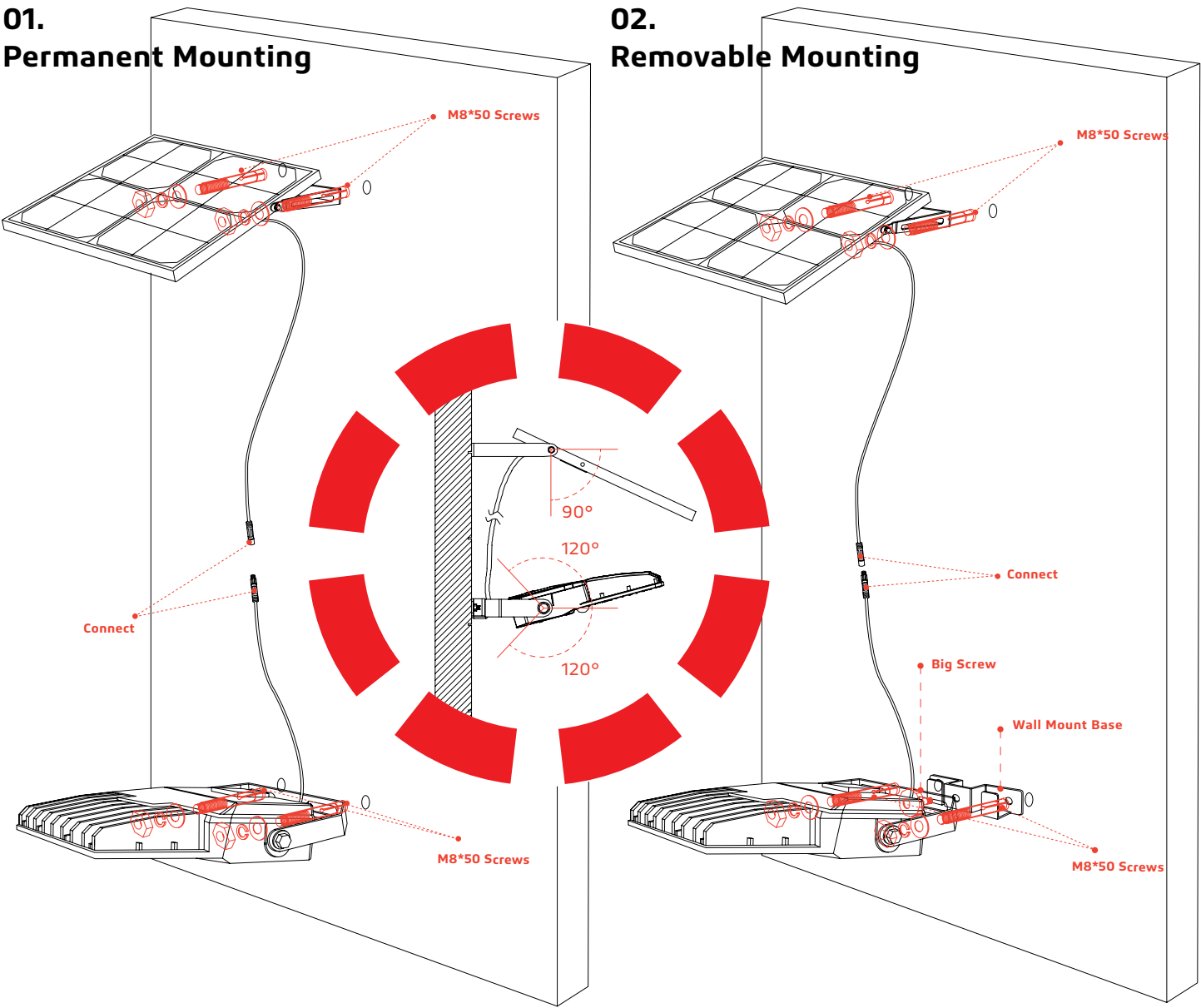[ ] - [ ] - [ ] - [ ] - [ ]

* The temperature can impact the battery's charge and daily operation.

* The solar charge data is base on 77 degree F ambient temperature with the panel facing direct solar radiation. The standard radiation value is 1000W/m².

03 Installation

WALL MOUNT

01.
Permanent Mounting

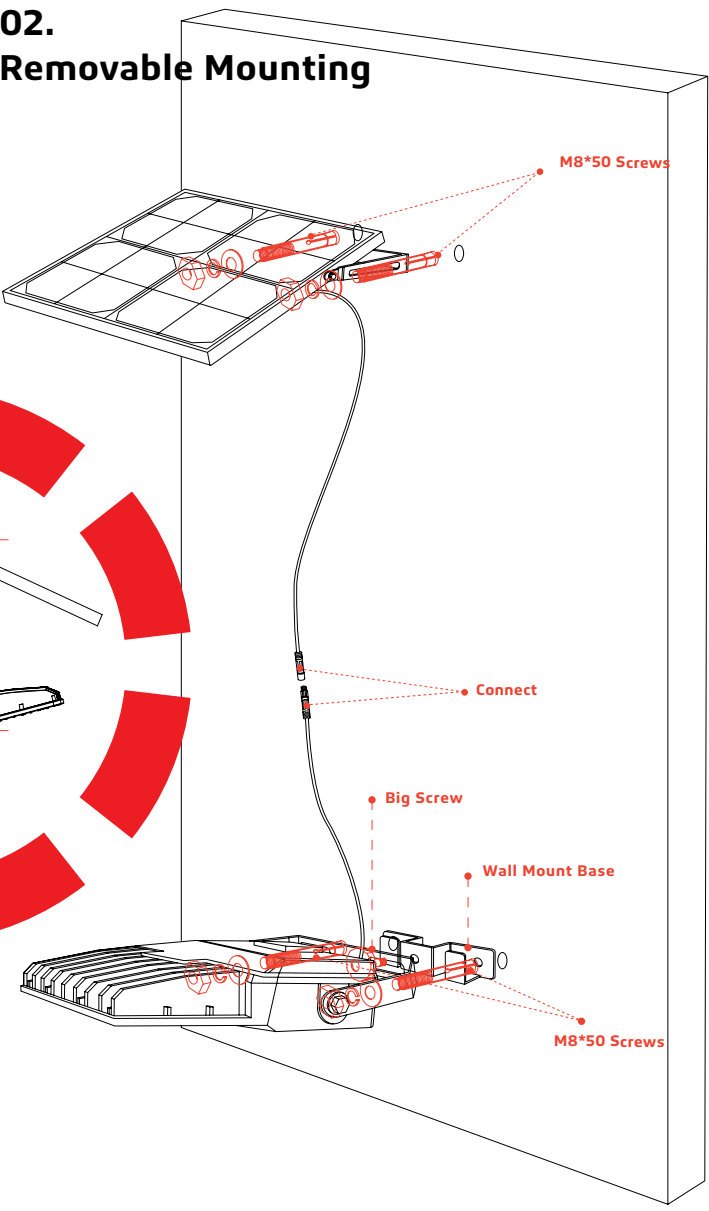M8*50 Screws

90°

120°

120°

Connect

M8*50 Screws

First mount the solar panel:
1. Drill two holes into the wall surface then use the screw kit to secure the solar panel bracket on the wall.
2. After you secure the solar panel bracket, attach the solar panel to the bracket.

Then mount the fixture:
3. Drill two holes into the wall surface. Attach the bracket to the fixture then secure to the wall surface with the screw kit.
4. Connect the light and solar panel cables.

02.
Removable Mounting

M8*50 Screws

Connect

Big Screw

Wall Mount Base

M8*50 Screws

First mount the solar panel:
1. Drill two holes into the wall surface, then use the screw kit to secure the solar panel bracket on the wall.
2. After you secure the solar panel bracket, attach the solar panel to the bracket.

Then mount the fixture:
3. Drill two holes into the wall surface, then screw in the wall mount base to the wall.

4. Attach the bracket to the fixture and then hang the bracket on the wall mount base. Lastly, use the big screw nob to hold them together.
5. Connect the light and solar panel cables.

POLE MOUNT

M8*60 Screws

Connect

M8*60 Screws

90°

120°

90°

120°

120°
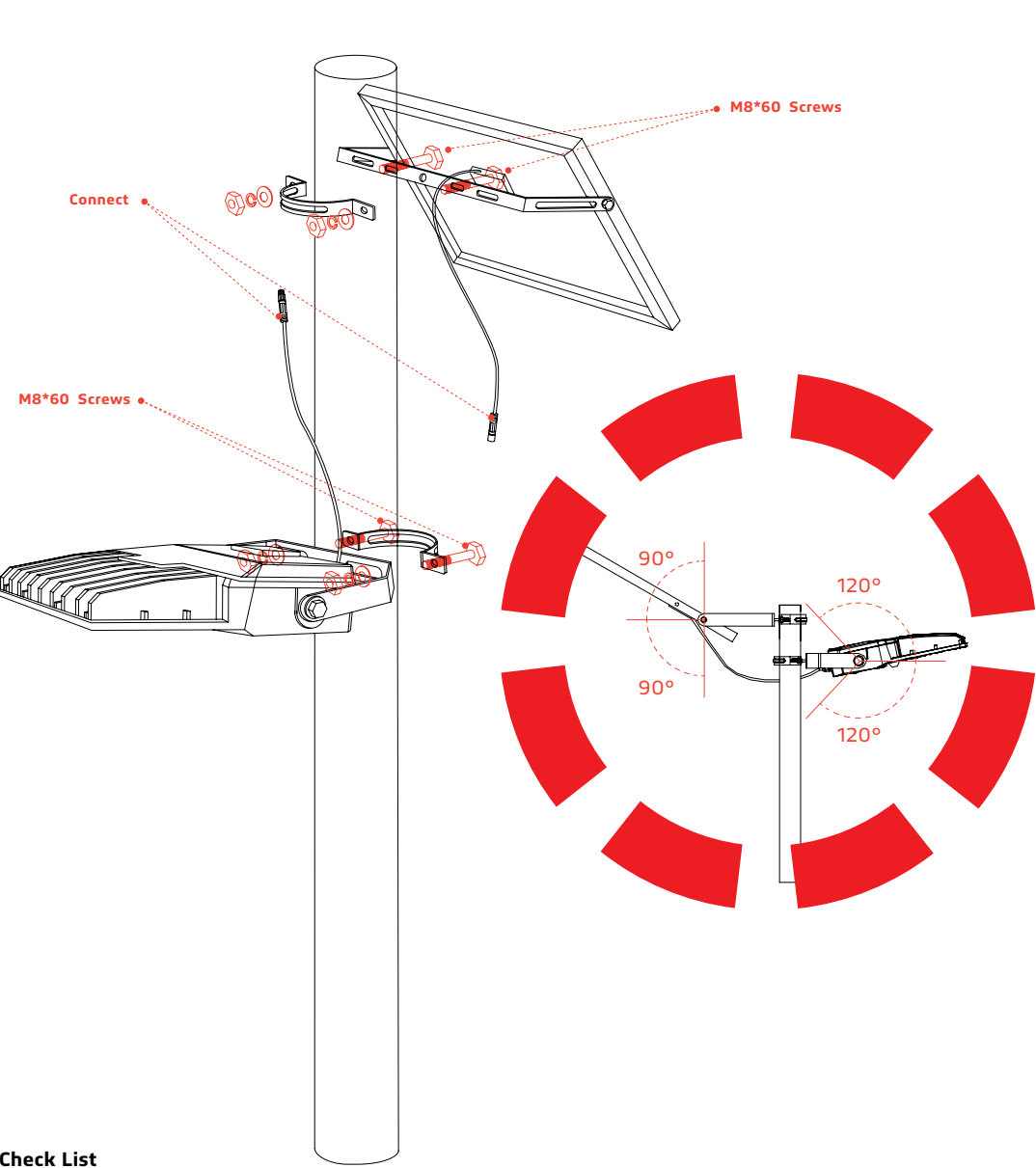
First, mount the solar panel to the pole:
1. Use the screw kit to secure the pole mount base and the solar panel bracket to the pole.
2. Then attach the solar panel to the bracket.
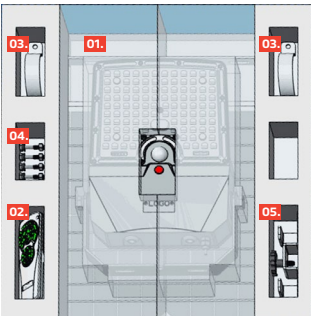
Then, mount the fixture:
3. Attach the bracket to the fixture.
4. Use the screw kit to secure the fixture bracket to the pole mount base on the pole.
5. Connect the light and solar panel cables.

Check List
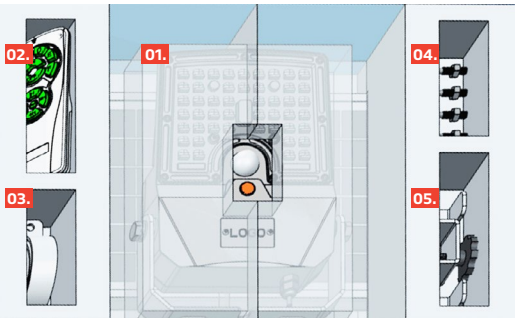
FLUX 6W

01. Fixture
02. Remote Control
03. Pole Mount
04. Screw Kit *(M8*60 X 4, M8*50 X 4)*
05. Wall Mount Base

FLUX 20W

01. Fixture
02. Remote Control
03. Pole Mount
04. Screw Kit *(M8*60 X 4, M8*50 X 4)*
05. Wall Mount Base

04 Remote Control

MOTION SENSOR MODES

A Light on 100% if motion is detected, stand-by period is 60 seconds. Light will turn off when no motion is detected.

B Light on 100% if motion is detected, stand-by period is 60 seconds. Light will dim down to 5% output when no motion is detected.

C Light on 100% if motion is detected, stand-by period is 120 seconds. Light will turn off when no motion is detected.
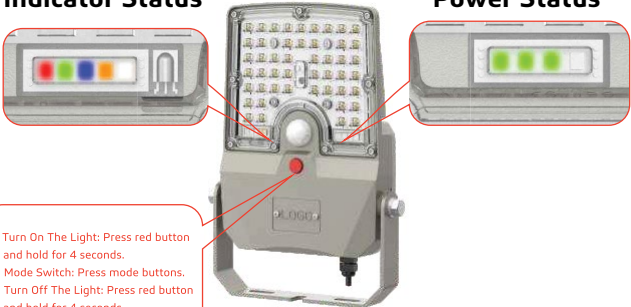

D Light on 100% if motion is detected, stand-by period is 120 seconds. Light will dim down to 5% output when no motion is detected.

E Light on 50% for 3 hours (Sensor disabled), then returns to motion sensor mode. If motion detected, stand-by period is 60 seconds. Light will turn off when no motion is detected.

F Light on 50% for 3 hours (Sensor disabled), then returns to motion sensor mode. If motion detected, stand-by period is 60 seconds. Light will dim down to 5% output when no motion is detected.

RST Light on 50% for 2 hours, then dims down to 20% for 6 hours, then dims down to 10% untill dawn (Sensor disabled).

REMOTE CONTROL INSTRUCTIONS

Indicator Status   **Power Status**

1. Turn On The Light: Press red button and hold for 4 seconds.
2. Mode Switch: Press mode buttons.
3. Turn Off The Light: Press red button and hold for 4 seconds.

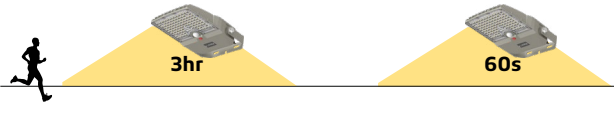| Remote Buttons	Indicator Status
A	Red
B	Green
C	Red+Green
D	Blue
E	Blue+Red
F	Blue+Green

Additonal Notes

1. The flood lights "Turn On" time depends on the client's local time (Turn-on Light Level:< 20Lux).

2. A, B, C, D, E and F modes have memory functions. For example, if you press mode A and then press the OFF button, Mode A will still be activated when you turn the light on again until end user resets the mode.
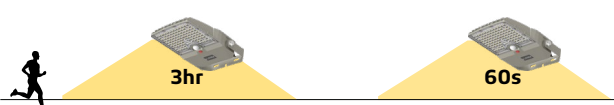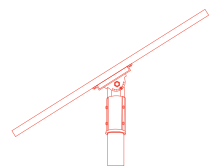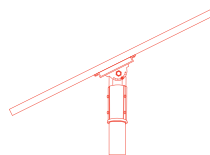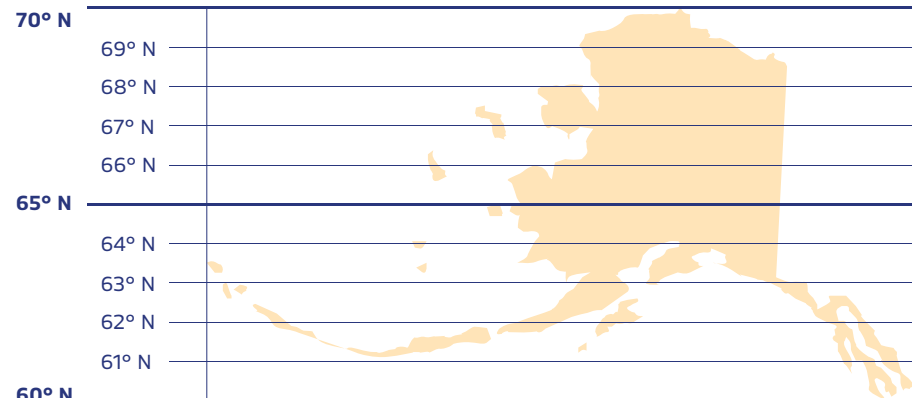
The solar charge in a battery pack won't last forever. The off–grid system relies on stored solar energy for autonomy. Angling your solar panels properly can boost the power intake of your solar lighting system. You want to angle your solar panels at a tilt based on the area's latitude.
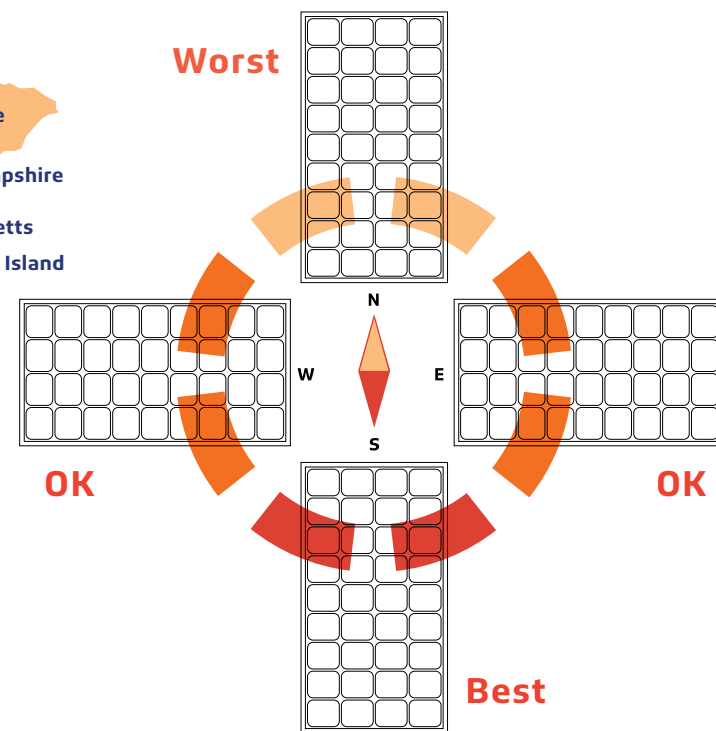
Tip

You can increase the tilt 15° in the winter or decrease 15° in the summer. In this way you can get the maximum sunlight to recharge the battrey.
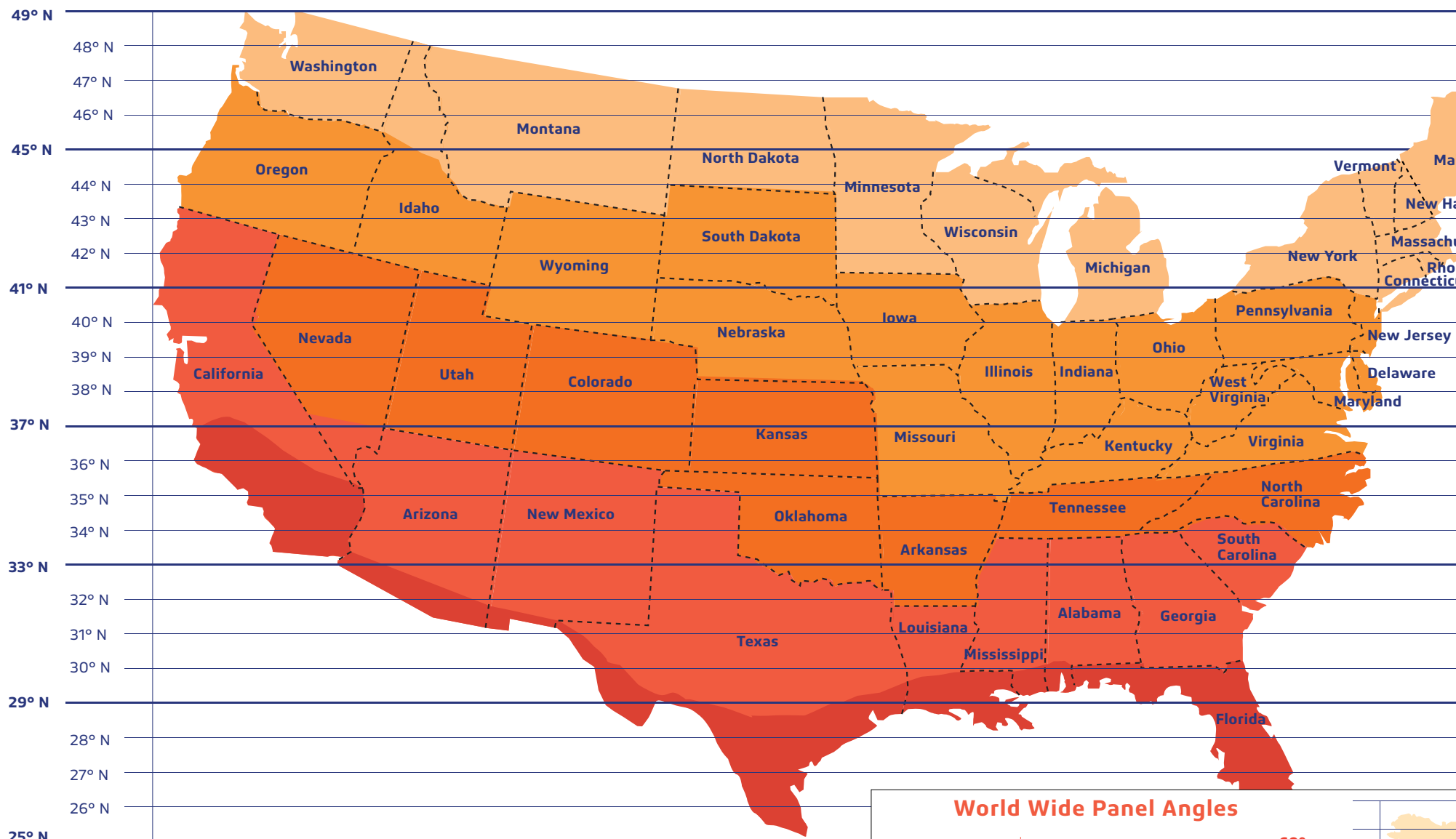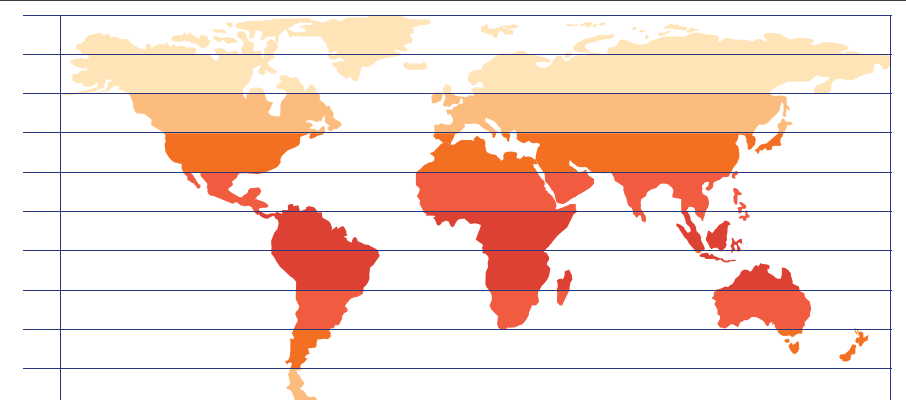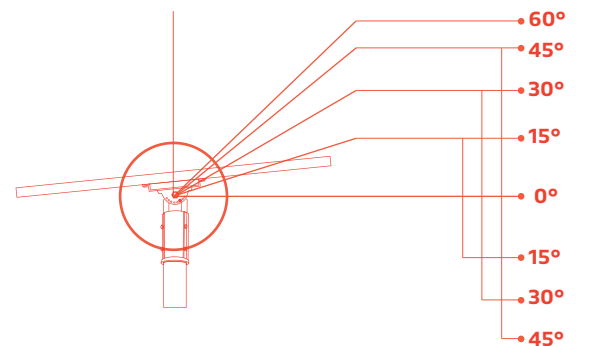
Key

Strong sunlight   Normal sunlight   Less sunlight

Best Facing Direction of Solar Panel

Worst

N

W   E

S

OK   **OK**

Best

The area will dictate the installation of the fixtures and will sometimes prevent the lights from facing south. But that's okay! Panels facing West & East won't get as much light as Southern facing panels, but will still collect a good amount of sunlight. A North facing panel also works, but it will take longer to charge than any other direction. This would mean that the solar charge will be less optimal if installations are facing North.
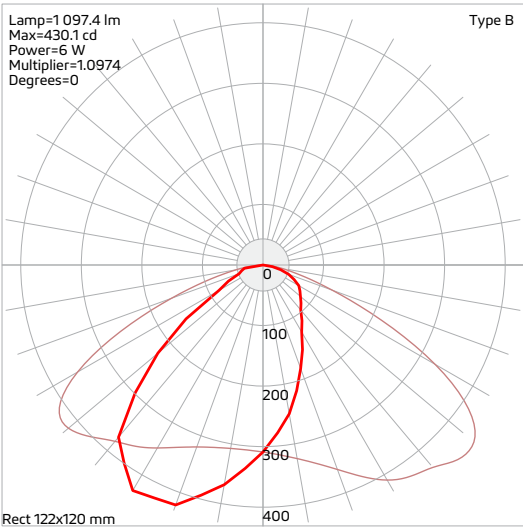
60°

70° N
69° N
68° N
67° N
66° N
65° N
64° N
63° N
62° N
61° N
60° N

Alaska

45°

49° N
48° N
47° N
46° N
45° N
44° N
43° N
42° N
41° N
40° N
39° N
38° N
37° N
36° N
35° N
34° N
33° N
32° N
31° N
30° N
29° N
28° N
27° N
26° N
25° N

Washington
Montana
North Dakota
Minnesota
Maine
Vermont
New Hampshire
Massachusetts
Rhode Island
Connecticut
Oregon
Idaho
South Dakota
Wisconsin
New York
Wyoming
Michigan
Pennsylvania
New Jersey
Nevada
Iowa
Nebraska
Ohio
Delaware
California
Utah
Colorado
Illinois
Indiana
West Virginia
Maryland
Kansas
Missouri
Kentucky
Virginia
Arizona
New Mexico
Oklahoma
Tennessee
North Carolina
Arkansas
South Carolina
Texas
Louisiana
Mississippi
Alabama
Georgia
Florida

30°

21° N
20° N
19° N

Hawaii

15°

World Wide Panel Angles

60°
45°
30°
15°
0°
15°
30°
45°

06 IES Light Distribution

FLUX 6W

Lamp=1 097.4 lm
Max=430.1 cd
Power=6 W
Multiplier=1.0974
Degrees=0

Type B

0
100
200
300
400

Rect 122x120 mm

FLUX 20W

Lamp=3 125.2 lm
Max=1 143.6 cd
Power=18 W
Multiplier=3.1252
Degrees=0

Type B

0
200
400
600
800
1 000
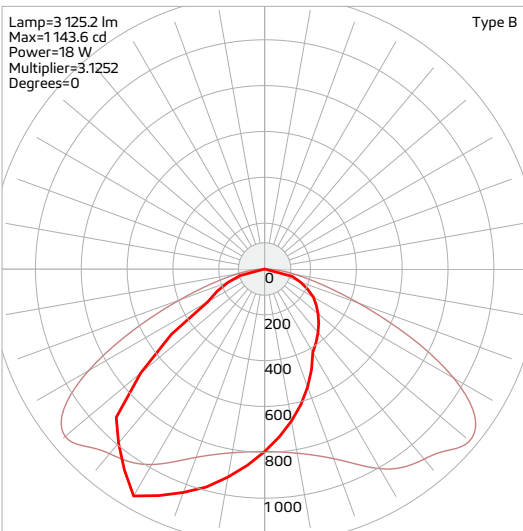
07 Warranty

FLUX is covered by a 3 year limited warranty. SOLTECH urban light warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 3 years from date of purchase. To obtain warranty service please contact your local distributor or sales rep for further instruction.

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SOLTECH

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