



 **SEVEN SS STARS<sup>®</sup>**

**2018**

**SOLAR  
SYSTEM**



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## About Us

SEVEN STARS SOLAR ENERGY COMPANY LIMITED has main factory in china itself,named HANSHZOU SUNRISE NEW ENERGY CO.,LTD. It is one of the leading manufacturers of the thermal solar energy technologies in the world.For more than 13 years we have designed and produced the highest quality solar water heaters on the market. Production using solar energy.It saves power,no pollution,no noise,safe and reliable,the initial investment,long-term benefit. Our main equipment are imported from Europe and other developed countries,with advanced production technology. With the most advanced all-glass vacuum tube production line,solar water heater production line.

Our commitment has always been to produce products specially designed to the local markets where they are used.

Our products have been widely used in the Middle East,South America,Africa,Europe and Asia.We have supplied solar systems to Egypt government for their projects. Seven Stars has complete line for all kinds of solar water heater,such as solar collector,integrate solar water heaters,split solar water heater,vacuum tube solar water heater and flat panel,pressurized and non pressurized.

The customer satisfaction has always been the highest requirement for us,keep moving,learning,exploring to be the best manufacturer in solar water heater filed.

The products conform to international standards of quality assurance ISO-9001-2016:2015 3C,CE and is tested according to international standard EN12976.

### Our Nission

Seven Stars mission is to provide clean,reliable,most efficient and cost effective power solutions for sustained growth and development in the region.To design and implement sustainable solutions that address client-specific needs.

### Our Vision

To create sustainable energy solutions and provide solar energy based products for the prevailing energy issues and challenges of tomorrow.



## INTEGRATIVE NON PRESSURE VACUUM TUBE SYSTEM



### STANDARD SPARE PARTS:

1. Solar water tank
2. Vacuum tube
3. Bracke

### OPTIONAL SPARE PARTS:

1. Assistant tank
2. Intelligent controller
3. Electricity heater element
4. Magnesium
- S. Brass Valve

## SPECIFICATION

1. Solar Collector  
Vacuum Tube Type: Three Target Vacuum Tube(Cu-S/S-AU NI,58mm" 1800mm size.  
Tube Material:1.6mm thickness borosilicate 3.3  
Hail Resistance:25mm
2. Water Tank  
Diameter:455mm  
Inner tank material:0.31 mm-0.5mm thickness SUS 304 food grade stainless steel  
Outer tank material:0.31 mm-0.5mm thickness galvanized steel
3. Insulation Layer Material  
High density polyurethane foaming(Germany),50mm thickness.42kg/m3
4. Bracket  
Material:1.5mm thickness galvanized steel,Angle:27°
5. Heat Preservation:72-80 hours.
6. Absorption Rate: 93%; Heat radiation rate:s6% (100°C).  
(different country might different)

## MODEL LIST

Model	Tube Qty (pcs]	Tube Size	Tank Size	Capality (L]	Hot water Yield(L]	Supply Ability (person]	Loading Qty (20'GP/HD]
SS-NP01-10	10	58x1800mm	96.5x45.5x45.Scm	100	80	1-2	78/200 units
SS-NP01-1b	15	58x1800mm	136x45.5x45.Scm	150	120	2-3	56/135 units
SSNP01-20	20	58x1800mm	174x45.5x45.Scm	200	160	4-5	43/110 units
SS-NP01-24	24	s8x1800mm	208x45.5x45.Scm	240	192	5-6	36/94 units
SSNP01-30	30	s8x1800mm	2s6x45.5x45.Scm	300	260	6-8	30/75 units
SS-NP01-36	36	s8x1800mm	304xS5.5xS5.Scm	360	288	8-10	25/65 units



# INTEGRATIVE HEATPIPE PRESSURIZED SYSTEM

## ADVANTAGE:

Our Heatpipe solar system use inner stainless 316(different than common market 304 material) which is reaching medical surgical equipment level, reduces the chromium content, increase the content of nickel, molybdenum, and increase the corrosion resistance greatly enhance thereby, our system can use in the environment which water not good, or seawater, long lifetime stay.

And heatpipe design solar water heater system which is good for replacement after some years of using. we clean the copper head, and change new to make sure that the solar system work as new.

All our system temperature can reach 100°C under the good sun for some days without using water. Which others product can only have temperature around 50°C-60°C When you choose our solar water heater system, 90% time of year use solar energy and very few time use electricity while rainy season. but all the products in market they use electricity power to heat water instead of solar energy. because they fix the heater element inside solar by automatic setting to be 80°C directly. And our heater element use controller panel to switch off. when need heating with electricity power, you can switch on. And all our controller panel and electricity element we adjust the power range to be 230V±10% which is more suitable for Kenya power to avoid the broken of unsteady voltage.



## INTEGRATE HEATPIPE PRESSURIZED SYSTEM



### SPECIFICATION

1. Solar Collector  
Tube Type: Three layer coating (Cu-S/S-AL/Ni) heatpipe vacuum pipe, size 58mm\*1800mm  
Tube Material: 1.6mm thickness borosilicate glass  
Hail Resistance: 25mm
2. Water Tank  
Diameter: 470mm  
Inner Tank: 1.2mm SUS316  
Outer Tank: 0.41mm thickness galvanized steel/SUS304 stainless
3. Insulation Layer Material  
High density polyurethane foaming (Germany), 50mm thickness, 42kg/m<sup>3</sup>.
4. Max Working Pressure: 0.6Mpa
5. Bracket  
Material: 1.5mm thickness galvanized/stainless available
6. Daily efficiency: »55% (»ñ2% in winter)
7. Heatpipe preservation: 72-80 hours

### MODEL LIST

Model	Tube Qty (pcs)	Tube Size	Tank Size	Capacity [L]	Supply Ability (person)	Loading Qty (20'GP/HQ)
SS-P01-15	15	58x1800mm	140x47x47cm	130	2-3	56/132 units
SS-P01-20	20	58x1800mm	177x47x47cm	180	3-5	43/101 units
SS-P01-30	30	58x1800mm	252x47x47cm	250	4-6	30/71 units

## INTEGRATE FLAT PANEL PRESSURIZED SYSTEM



### ADVANTAGE:

1. safe and steady
2. Pressurized operation
3. High heat efficiency
4. Good temperature preservation
5. Long usage lifetime
6. Several models fulfill different user need
7. Easy Installation
8. Freeze resistant

### SPECIFICATION

1. Solar Panel  
All copper, blue chrome selective coating.
2. Water Tank  
Diameter: 470mm  
Inner Tank: 1.2mm SUS316  
Outer Tank: 0.6mm thickness galvanized steel/SUS304 stainless
3. Insulation Layer Material  
High density polyurethane foaming (Germany), 50mm thickness, 2kg/m<sup>3</sup>.
4. Max Working Pressure: 0.6Mpa
5. Bracket  
Material: 1.5mm thickness galvanized/stainless available
6. Daily efficiency: >55% (>2% in winter)
7. Heatpipe preservation: 72-80 hours

### MODEL LIST

Model	Tube Qty (pcs)	Tube Size	Tank Size	Capacity [L]	Supply Ability (person)	Loading Qty (20'GP/HQ)
SS-P01-15	1	1.0x2.0x0.8mm	110x47x7cm	130	2-3	56/132 units
SS-P01-20	2	1.25x2.0x0.8mm	177x47x7cm	180	3-5	83/101 units
SS-P01-30	2	1.0x2.0x0.8mm	252x47x7cm	250	4-6	30/71 units



## SOLAR COLLECTOR FOR PROJECTV



### MODEL LIST

Model	Tube Qty (pcs]	Tube Size	CapalityMatch (L]	Loading Qty [20'GP/HQ]
SS-PM01V-25	25	58x1800mm	250	72/172sets
SS-PM01V-30	30	58x1800mm	300	62/144sets
SS-PM01V-50	50	58x1800mm	500	44/102sets
SS-PM01V-60	60	58x1800mm	600	36/86sets

### SPECIFICATION:

1. Solar collector: Three layer coating (Cu-S/S-AL/ N) vacuum tube, 58\*1800mm size.
2. Inner manifold: Food grade stainless steel, SUS304-2B, 0.40mm thickness.
3. Outer manifold: Silver drawing board, 0.40mm thickness.
4. Water tank insulation: High density polyurethane foaming, 45mm thickness.
5. Frame: Painted galvanized steel, 1.5mm thickness (Stainless steel is available).
6. Frame angle: 35°.
7. Heat preservation: 72-80 hours.
8. Absorption rate: »93%; Heat radiation rate: s6% (100°C) .
9. 3 years warranty and 15 years lifetime.

## SPIIT PRESSURIZED HEAT PIPE SOLAR WATER HEATER

### SPECIFICATION:



1. Solar collector: Three layer coating(Cu-S/S-AL/N) heat pipe tube, 58\*1800mm size.
2. Manifold: Aluminum alloy out casing and red copper flow passage, 2.0mm thickness.
3. Frame: Aluminum alloy, 2.5mm thickness.
4. Frame angle: 27°-50°is available.
5. Inner water tank: Food grade stainless steel, SUS304-2B, 2.0mm thickness.
6. Outer water tank: Stainless ceramic plate, 0.50mm thickness. [Looks like new after 5 years use).
7. Water tank insulation: High density polyurethane foaming, 50mm thickness (55mm, 60mm thickness is available).
8. Copper coil: p12mm\*1.0mm.
9. Electrical heater parts: 1.5KW.
10. Work station: Include expansion case, Check valve, Pressure relief valve, Circulation pump, Intelligent controller, temperature sensor.
11. 3years warranty and 15 years lifetime.

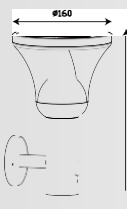
### MODEL LIST

Model	Tube Qty (pcs]	Tube Size	Tank Size	Capality (L]	Copper coil(Meters]	Supply Ability (person]	Loading Qty (20'GP/HQ]
SS-SP06-12	12	58x1800mm	100x48x48cm	100	15M	2-3	56/13ñ sets
SS-SP06-18	18	58x1800mm	150x48x48cm	150	18M	3-4	J0/96 sets
SS-SP06-24	24	58x1800mm	130x57x57cm	200	22M	4-5	33/78 sets
SS-SP06-30	30	58x1800mm	165x57x57cm	250	26M	5-6	27/66 sets
SS—SP06—36	36	58x1800mm	185x57x57cm	300	30M	6-8	23/56 sets
SS-SP06-60	60	58x1800mm	205x70x70cm	500	40M	10-12	15/36 sets
SS-SP06D-12	12	58x1800mm	100x48x/+8cm	100	15M/15M (Doubled	2-3	56/134 sets
SS-SP06D-18	18	58x1800mm	150x48x/+8cm	150	15M/18M (Double]	3-4	40/96 sets
SS-SP06D-24	24	58x1800mm	130x57x57cm	200	15M/22M (Double]	4-5	33/78 sets
SS-SP06D-30	30	58x1800mm	165x57x57cm	250	15M/26M (Double]	5-6	27/66 sets
SS-SP06D-36	36	58x1800mm	185x57x57cm	300	15M/30M (Doubled	6-8	23/56 sets
SS-SP06D-60	60	58x1800mm	205x70x72cm	500	15M/40M (Doubled	10-12	15/36 sets

SS801A



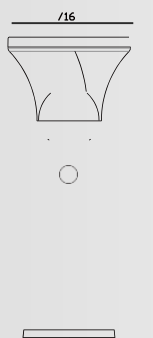
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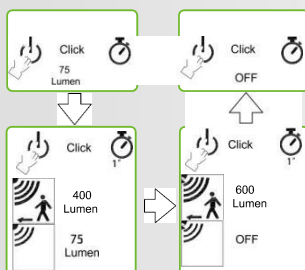
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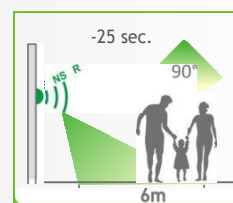
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**Material:**Stainless Steel+PC  
**Lamp color:**Grey/ Black  
**LED color:** 3000K/ 4000K/ 6500K



**MAX**  
**600 Lumen**  
SMD LED  
A+  
✓ cl.  
3,7V-



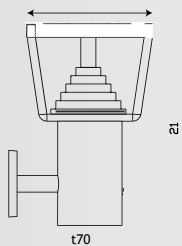


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SS802A



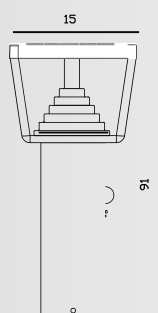
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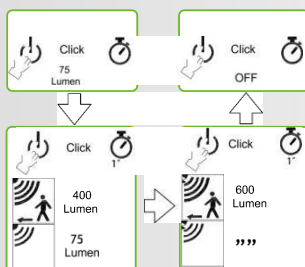
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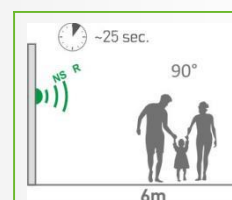
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Material: Stainless Steel+PC  
Lamp color: Natural/ Black  
LED color: 3000K/ 4000K/ 6500K



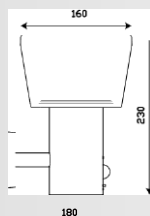
MAX 600 Lumen  
SND LED  
3,7V-



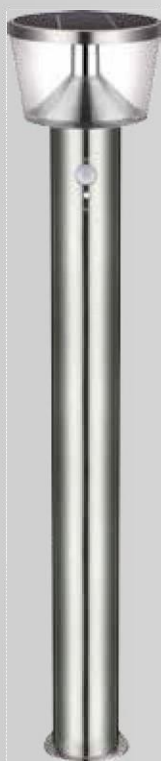
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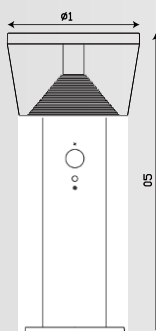
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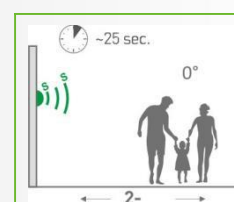
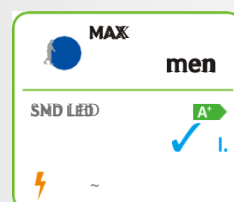
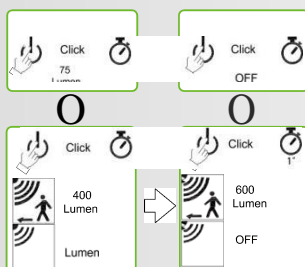
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SS803B-1



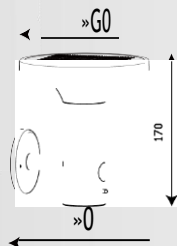
**Material:** Aluminum+Stainless Steel+PC  
**Lamp color:** Grey/ Black  
**LED color:** 3000K/ 4000K/ 6500K



SS804A



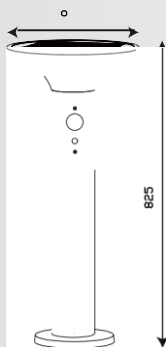
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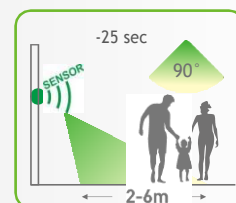
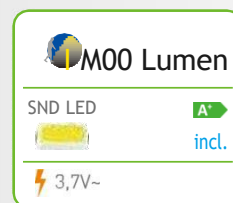
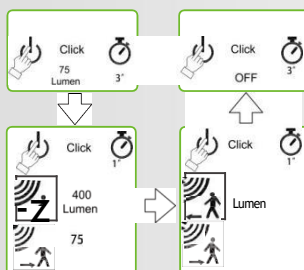
SS804A-1



SS804B-1



**Materiaf:** Aluminum+Stainless Steel+PC  
**Lamp color:** Grey/ Black  
**LED color:** 3000K/ 4000K/ 6500K

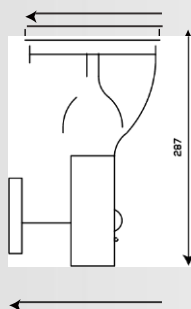




SS805A



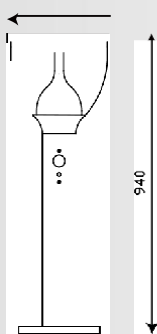
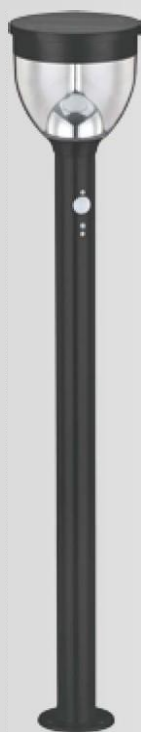
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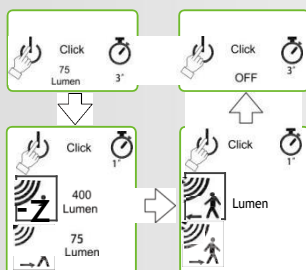
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SS805B-1

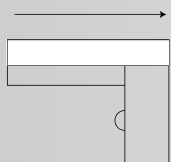


**Materiaf:**Aluminum+Stainless Steel+PC  
**Lamp color:** Grey/ Black  
**LED color:** 3000K/ 4000K/ 6500K



**MAX 600Lumen**  
 SMD LED **A+**  
 3,7V-  
 incl.

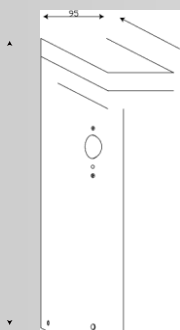
-25 sec  
 90°  
 2-6m



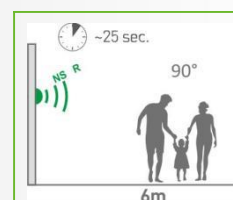
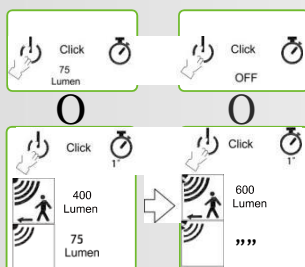
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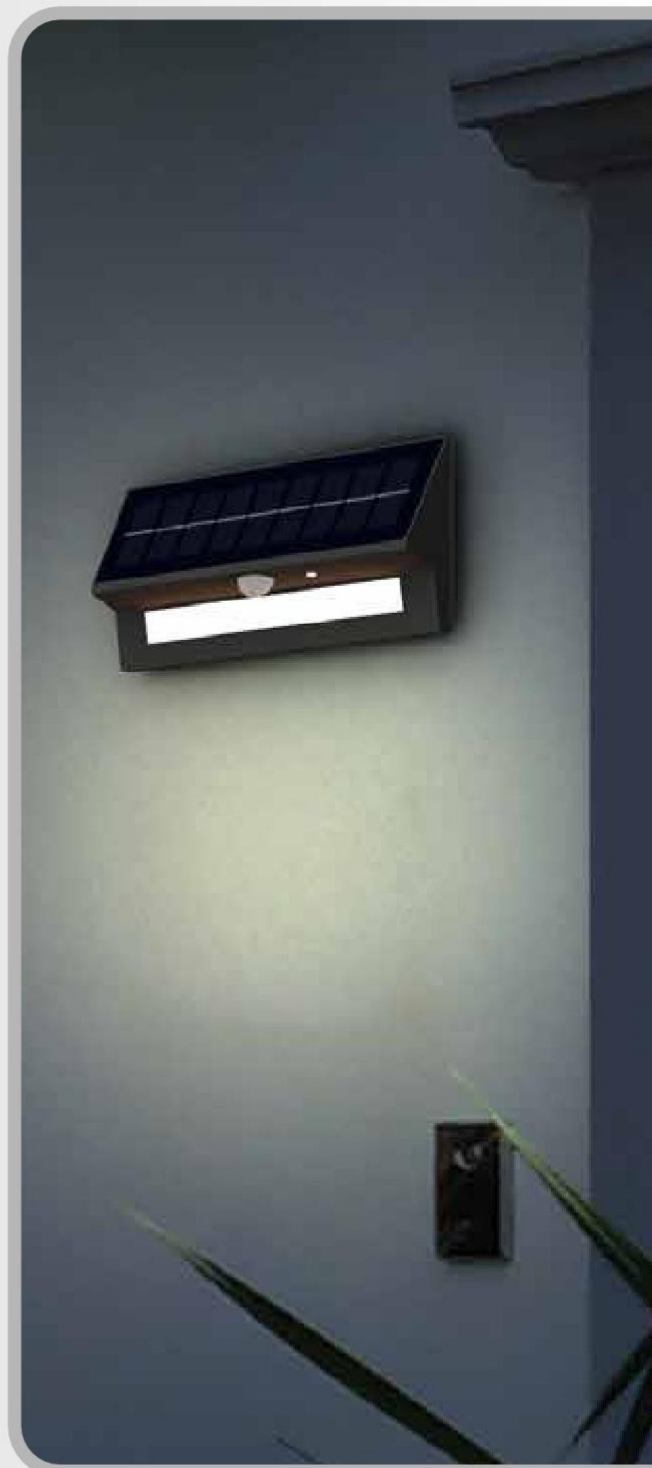
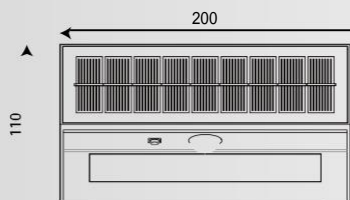
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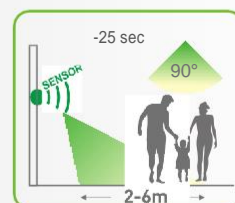
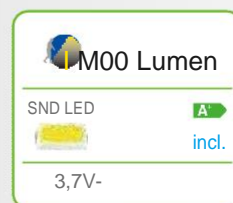
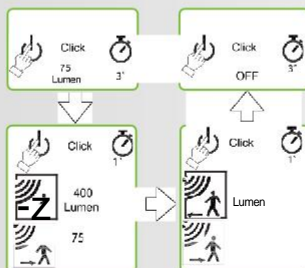
Material: Aluminum+Stainless Steel+PC  
Lamp color: Grey/ Black  
LED color: 3000K/ 4000K/ 6500K



SS807B



**Materiaf:** Aluminum+Stainless Steel+PC  
**Lamp color:** Grey/Black  
**LED color:** 3000K/ 4000K/ 6500K

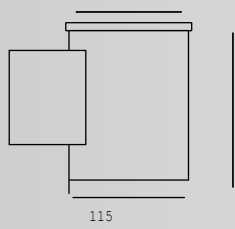




SS808A



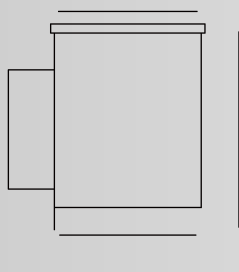
SS808B



SS809A



SS809B



Material: Aluminum+Stainless Steel+PC  
Lamp color: Grey/ Black  
LED color: 3000K / 4000K / 6500K



75 Lumen

SND LED



⚡ 3,7V~

## Solar Flood Light : FSBA1

FSBA1-30W



FSBA1-50W



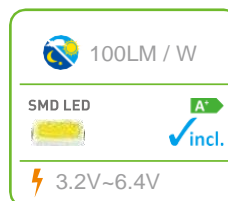
FSBA1-100W



FSBA1-150W



**Material:** Aluminum  
**Lamp color:** Black  
**LED color:** 3000K / 4000K / 6500K



## Solar Street Light : SSBJ2



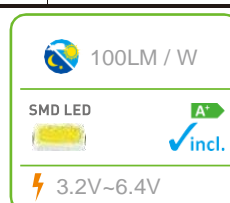
### TECHNICAL PARAMETERS

Nominal Wattage (W)	Solar Panel		Bettery(Lithium Iron Phosphate)		Charge time/Light time	
50W	15W/6V	15W/6V	3/18AH*3.2V=57.6WH	4/24AH*3.2V=76.8WH	5H/20H	5H/28H
80W	20W/6V	25W/6V	4/24AH*3.2V=76.8WH	6/36AH*3.2V=115.2WH	5H/20H	5H/28H
100W	25W/6V	30W/6V	5/30AH*3.2V=96WH	8/48AH*3.2V=153.6WH	5H/20H	5H/28H
120W	30W/9V	45W/18V	6/18AH*6.4V=115.2WH	12/18AH*12.8V=230.4WH	5H/20H	5H/36H
150W	35W/9V	50W/18V	8/24AH*6.4V=153.6WH	16/24AH*12.8V=307.2WH	5H/20H	5H/36H

**Material:** Aluminum

**Lamp color:** Black

**LED color:** 3000K / 4000K / 6500K





## Solar Street Light : SSBB1



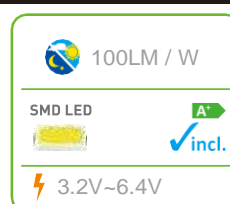
### TECHNICAL PARAMETERS

Nominal Wattage ( W )	Solar Panel	Battery(Lithium Iron Phosphate)	Charge time/Light time
20W	8 W/6 V	3/6.6AH*3.7V=24.4WH(Lithium)	5 H /20H
30W	20W/6 V	3 /18AH*3 . 2 V=57 . 6 WH	5 H /36H
50W	30W/6 V	5 /30AH*3 . 2 V=96WH	5 H /36H
80W	35W/9 V	6 /18AH*6 . 4 V=115 . 2 WH	5 H /36H
100W	40W/9 V	8 /24AH*6 . 4 V=153 . 6 WH	5 H /36H
150W	50W/9 V	10/30AH*6 . 4V=192WH	5 H /36H
200W	60W/9 V	12/36AH*6 . 4 V=230 . 4 WH	5 H /36H

**Material:** Aluminum

**Lamp color:** Grey / Black

**LED color:** 3000K / 4000K / 6500K



## Solar Street Light : SSBA1/2



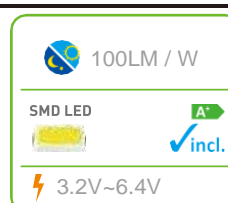
### TECHNICAL PARAMETERS

Nominal Wattage (W)	Solar Panel	Battery(Lithium Iron Phosphate)	Charge time/Light time
30W	15W/6V	3/18AH*3.2V=57.6WH	5H/20H
50W	20W/6V	4/18AH*3.2V=76.8WH	5H/20H
80W	22W/6V	5/30AH*3.2V=96WH	5H/20H
100W	25W/9V	6/18AH*6.4V=115.2WH	5H/20H
120W	30W/9V	8/24AH*6.4V=153.6WH	5H/20H
150W	35W/9V	10/30AH*6.4V=192WH	5H/20H

**Material:** Aluminum

**Lamp color:** Grey / Black

**LED color:** 3000K / 4000K / 6500K



## Solar Street Light : SSAA1



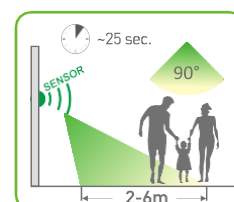
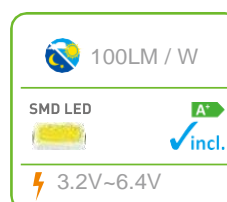
### TECHNICAL PARAMETERS

Nominal Wattage (W)	Solar Panel	Battery(Lithium Iron Phosphate)	Charge time/Light time
20W	10W/6V	2/12AH*3.2V=38.4WH	5H/20H
40W	15W/6V	3/18AH*3.2V=57.6WH	5H/20H
60W	20W/6V	4/24AH*3.2V=76.8WH	5H/20H

**Material:** Aluminum

**Lamp color:** Grey

**LED color:** 3000K / 4000K / 6500K





## Solar Street Light : SSAA3



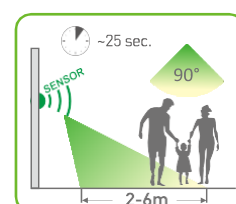
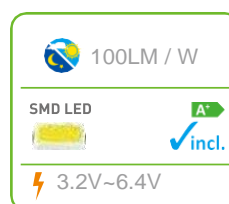
### TECHNICAL PARAMETERS

Nominal Wattage (W)	Solar Panel	Battery(Lithium)	Charge time/Light time
20W/30W	35W/18V	3S14P/30.8AH*12V=369.6WH	6~8H/36H
40W	45W/18V	3S15P/33AH*12V=396WH	6~8H/36H
50W	55W/18V	3S16P/35.2AH*12V=422.4WH	6~8H/36H
60W	65W/18V	3S17P/37.4AH*12V=448.8WH	6~8H/36H

**Material:** Aluminum

**Lamp color:** Grey

**LED color:** 3000K / 4000K / 6500K



## Solar Street Light : SSBT1



### TECHNICAL PARAMETERS

Nominal Wattage (W)	Solar Panel	Battery	Charge time/Light time
50W	40W/18V	Lithium: 4S2P/12AH*12.8V=153WH	6H~8H/36H~48H
60W	50W/18V	Lithium Iron Phosphate 3S8P/17.6AH*12V=211.2WH	6H~8H/36H~48H
80W	60W/18V	Lithium Iron Phosphate 3S9P/19.8AH*12V=237.6WH	6H~8H/36H~48H
100W	70W/18V	Lithium Iron Phosphate 3S10P/22AH*12V=264WH	6H~8H/36H~48H

**Material:** Aluminum

**Lamp color:** Grey

**LED color:** 3000K / 4000K / 6500K

