



SOLAR STREET LIGHT



SF-SYT308

50W/100W/150W/200W
MONO SOLAR PANEL
MOTION SENSOR

SUNFREE





100W



150W



200W



SF-SYT308B
ALL IN ONE SOLAR STREET LIGHT



SF-SYT308A



SF-SYT308B

★General Information

Based on original design of intergrated solar street light in our company, SF-SYT308 is updated and independently developed by our senior ID, engineers.

With advantages of artistic appearance, easy installation and high cost performance, SF-SYT308 can meet the philosophy of PV industry mostly----Safety, Eco-friendly, High efficiency.

★Product Overview

1. Product Introduction

As an outdoor lighting fixture, SF-SYT308 Solar Street Light is powered by solar energy and designed to offer outstanding quality by utilizing A-class LED beads, integrated optical LED lens, high efficiency mono solar panel, powerful lithium battery, independently developed PWM controller and PIR sensor.

2. Operation Principle

It is designed to constantly absorb solar energy in daylight and convert to electricity, the intelligent controller could precisely control the charge, discharge and well preserve electricity into the lithium battery. And start to illuminate, which is powered by the lithium battery, once the illuminance of ground reduced to 10 lux in nighttime, or solar panel voltage to 2V below. The intelligent controller not only protects the battery from over-charging, over-discharging, but also can control the light switch-on, the time of switch-on and optimize the brightness effectively according to the-time environment.

3. Product Function

With time control, light control, PIR infrared sensing all in one.



26800
5C POWER BATTERY



PWM CONTROLLER



ePIR SENSOR



PHILIPS 2835 LED CHIP

★Components:

- 1.LED Chip: Philips 2835
- 2.Lens:Optical lens
- 3.Battery:Terpolymer lithium battery
- 4.Material:6063 Aluminum housing
- 5.Controller:PWM controller
- 6.Sensor: ePIR sensor
- 7.Solar Panel: Mono solar cell panels

★Advantages:

1. All brand new materia.
2. Powerful Lithium battery, ultra-thin 26800 in 26mm.
3. Longer working life.
4. Unique design with attractive blending.
5. Simple installation.

★Benefits:

1. Environment friendly.
2. Expenses cost reduction and saving.
3. Company's image and awareness increased.
4. Build a good company's reputation.

★Product Structure



★Sensor Fution

When the ambient light under 10lux, the solar street light will automatically light and the battery start to work.

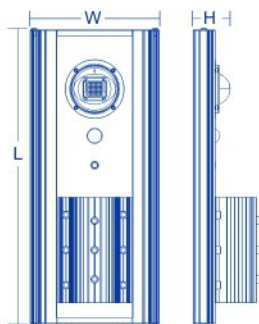
① When people come near about 10 meters, it will change to 100% power for better brightness.

② When people walk away about 15 seconds, it will change to 30% power for longer lighting time.

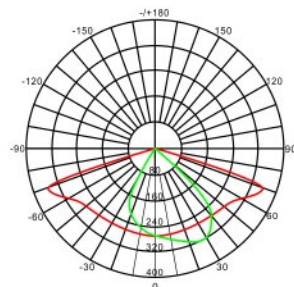


★Product Parameters

SF-SYT308A-50W



Dimensional drawing



Light distribution curve

01 Electrical Characteristic

LED Power	50W
Solar Panel Power	6V 16W Mono silicon solar panel
Battery Capacity	3.7V 21000mAh
Controller	PWM Controller
Charge Time	4-6 hours by bright sunlight
Discharge Time	3~4 rain days
Switch Threshold	10lux
Motion Sensor	Yes (ePIR Sensor)
IP Rating	IP65
Operating Temperature	-25℃ to 65℃

02 LED Parameters

LED Brand	Philips
LED Chip	48pcs*2835
Luminous Efficiency	150lm/w
Color Teperature	3000/4000/6500K
Beam Angle	70*140°

03 Mechanical Specification

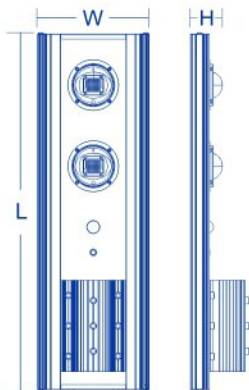
Material	6063 Aluminum
Light Body Size	L500*W220*H55 mm
Net Weight	3.5KG/PCS
Install Pole Diameter	D60mm
Mounting Height	3~4m
Pole InstallDistance	8-15m

04 Packing Dimension

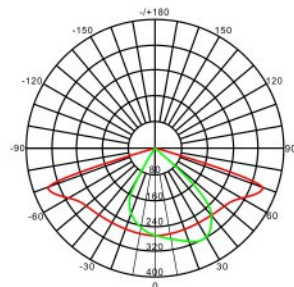
Quantity	1pcs/ctn
Inside Carton Size	27*11*65cm
Outside Carton Size	67*35*56cm 6pcs/ctn
Gross Weight	23.5KG

★Product Parameters

SF-SYT308A-100W



Dimensional drawing



Light distribution curve

01 Electrical Characteristic

LED Power	100W
Solar Panel Power	6V 20W Mono silicon solar panel
Battery Capacity	3.7V 35000mAh
Controller	PWM Controller
Charge Time	4-6 hours by bright sunlight
Discharge Time	3~4 rain days
Switch Threshold	10lux
Motion Sensor	Yes (ePIR Sensor)
IP Rating	IP65
Operating Temperature	-25℃ to 65℃

02 LED Parameters

LED Brand	Philips
LED Chip	96pcs*2835
Luminous Efficiency	150lm/w
Color Teperature	3000/4000/6500K
Beam Angle	70*140°

03 Mechanical Specification

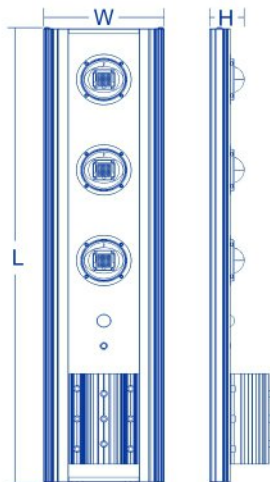
Material	6063 Aluminum
Light Body Size	L700*W220*H55 mm
Net Weight	4.5KG/PCS
Install Pole Diameter	D60mm
Mounting Height	4 ~ 5m
Pole InstallDistance	18-22m

04 Packing Dimension

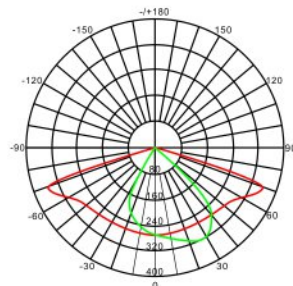
Quantity	1pcs/ctn
Inside Carton Size	27*11*85cm
Outside Carton Size	87*24*56cm 4pcs/ctn
Gross Weight	21KG

★Product Parameters

SF-SYT308A-150W



Dimensional drawing



Light distribution curve

01 Electrical Characteristic

LED Power	150W
Solar Panel Power	6V 25W Mono silicon solar panel
Battery Capacity	3.7V 42000mAh
Controller	PWM Controller
Charge Time	4-6 hours by bright sunlight
Discharge Time	3~4 rain days
Switch Threshold	10lux
Motion Sensor	Yes (ePIR Sensor)
IP Rating	IP65
Operating Temperature	-25℃ to 65℃

02 LED Parameters

LED Brand	Philips
LED Chip	144pcs*2835
Luminous Efficiency	150lm/w
Color Teperature	3000/4000/6500K
Beam Angle	70*140°

03 Mechanical Specification

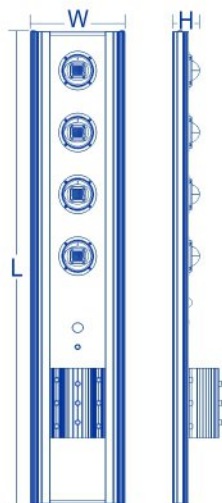
Material	6063 Aluminum
Light Body Size	L900*W220*H55 mm
Net Weight	5.5KG/PCS
Install Pole Diameter	D60mm
Mounting Height	4 ~ 6m
Pole InstallDistance	22-25m

04 Packing Dimension

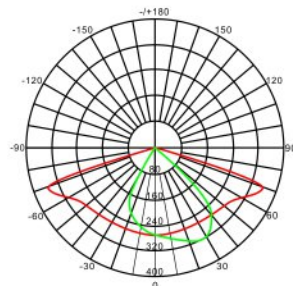
Quantity	1pcs/ctn
Inside Carton Size	27*11*105cm
Outside Carton Size	107*35*29cm 3pcs/ctn
Gross Weight	21KG

★Product Parameters

SF-SYT308A-200W



Dimensional drawing



Light distribution curve

01 Electrical Characteristic

LED Power	200W
Solar Panel Power	6V 35W Mono silicon solar panel
Battery Capacity	3.7V 63000mAh
Controller	PWM Controller
Charge Time	4-6 hours by bright sunlight
Discharge Time	3~4 rain days
Switch Threshold	10lux
Motion Sensor	Yes (ePIR Sensor)
IP Rating	IP65
Operating Temperature	-25℃ to 65℃

02 LED Parameters

LED Brand	Philips
LED Chip	192pcs*2835
Luminous Efficiency	150lm/w
Color Teperature	3000/4000/6500K
Beam Angle	70*140°

03 Mechanical Specification

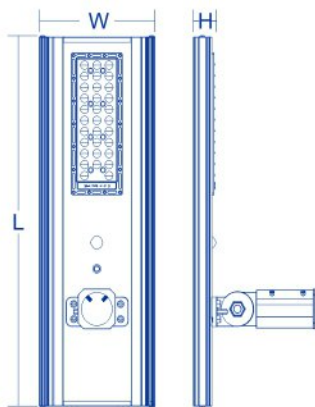
Material	6063 Aluminum
Light Body Size	L1180*W220*H55 mm
Net Weight	7.5KG
Install Pole Diameter	D60mm
Mounting Height	6~8m
Pole InstallDistance	25-28m

04 Packing Dimension

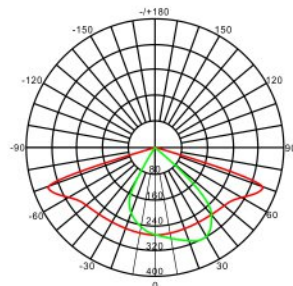
Quantity	1pcs/ctn
Inside Carton Size	27*11*120cm
Outside Carton Size	122*35*29cm 3pcs/ctn
Gross Weight	24KG

★Product Parameters

SF-SYT308B-100W



Dimensional drawing



Light distribution curve

01 Electrical Characteristic

LED Power	100W
Solar Panel Power	6V 20W Mono silicon solar panel
Battery Capacity	3.7V 35000mAh
Controller	PWM Controller
Charge Time	4-6 hours by bright sunlight
Discharge Time	3~4 rain days
Switch Threshold	10lux
Motion Sensor	Yes (ePIR Sensor)
IP Rating	IP65
Operating Temperature	-25℃ to 65℃

02 LED Parameters

LED Brand	Philips
LED Chip	128pcs*2835
Luminous Efficiency	150lm/w
Color Teperature	3000/4000/6500K
Beam Angle	70*140°

03 Mechanical Specification

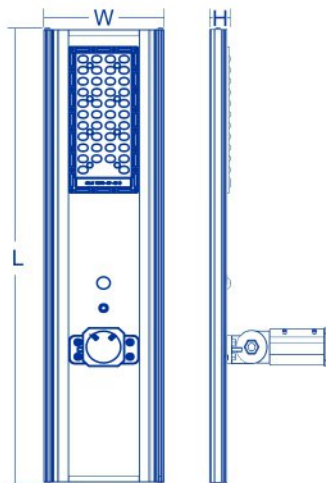
Material	6063 Aluminum
Light Body Size	L700*W220*H55 mm
Net Weight	4.5KG
Install Pole Diameter	D60mm
Mounting Height	4 ~ 5m
Pole InstallDistance	18-22m

04 Packing Dimension

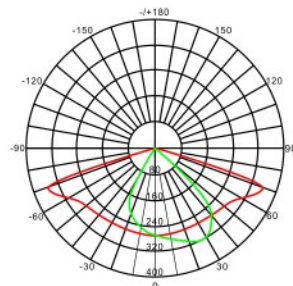
Quantity	1pcs/ctn
Inside Carton Size	27*11*85cm
Outside Carton Size	87*24*56cm 4pcs/ctn
Gross Weight	21KG

★Product Parameters

SF-SYT308B-150W



Dimensional drawing



Light distribution curve

01 Electrical Characteristic

LED Power	150W
Solar Panel Power	6V 25W Mono silicon solar panel
Battery Capacity	3.7V 42000mAh
Controller	PWM Controller
Charge Time	4-6 hours by bright sunlight
Discharge Time	3~4 rain days
Switch Threshold	10lux
Motion Sensor	Yes (ePIR Sensor)
IP Rating	IP65
Operating Temperature	-25℃ to 65℃

02 LED Parameters

LED Brand	Philips
LED Chip	168pcs*2835
Luminous Efficiency	150lm/w
Color Teperature	3000/4000/6500K
Beam Angle	70*140°

03 Mechanical Specification

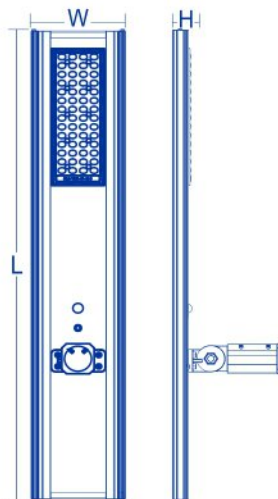
Material	6063 Aluminum
Light Body Size	L900*W220*H55 mm
Net Weight	5.5KG
Install Pole Diameter	D60mm
Mounting Height	4~6m
Pole InstallDistance	22-25m

04 Packing Dimension

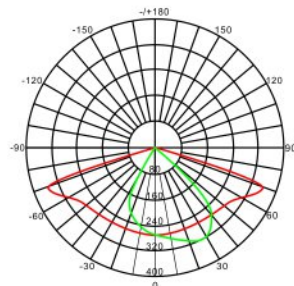
Quantity	1pcs/ctn
Inside Carton Size	27*11*105cm
Outside Carton Size	107*35*29cm 3pcs/ctn
Gross Weight	21KG

★Product Parameters

SF-SYT308B-200W



Dimensional drawing



Light distribution curve

01 Electrical Characteristic

LED Power	200W
Solar Panel Power	6V 35W Mono silicon solar panel
Battery Capacity	3.7V 63000mAh
Controller	PWM Controller
Charge Time	4-6 hours by bright sunlight
Discharge Time	3~4 rain days
Switch Threshold	10lux
Motion Sensor	Yes (ePIR Sensor)
IP Rating	IP65
Operating Temperature	-25℃ to 65℃

02 LED Parameters

LED Brand	Philips
LED Chip	224pcs*2835
Luminous Efficiency	150lm/w
Color Teperature	3000/4000/6500K
Beam Angle	70*140°

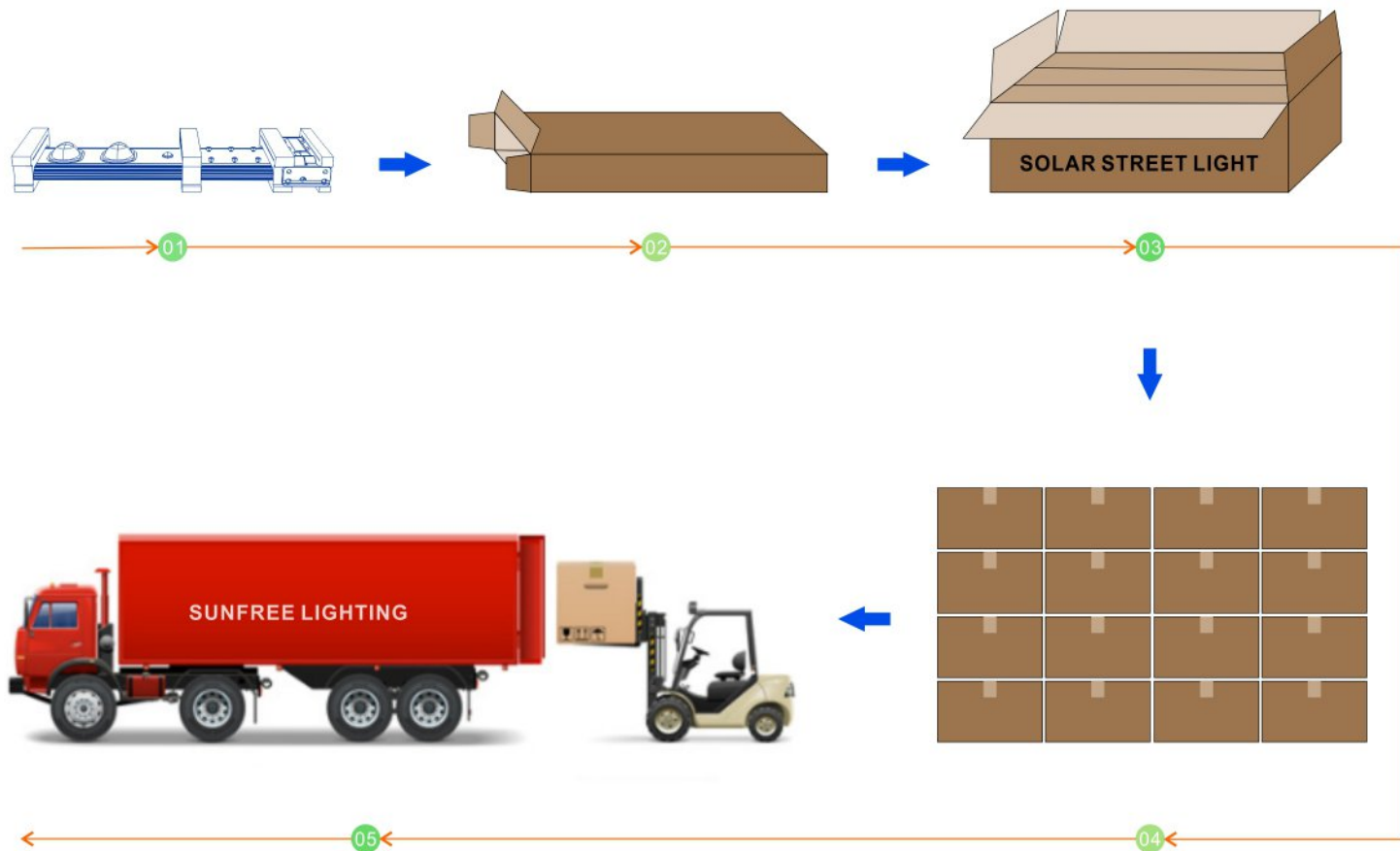
03 Mechanical Specification

Material	6063 Aluminum
Light Body Size	L1180*W220*H55 mm
Net Weight	7.5KG
Install Pole Diameter	D60mm
Mounting Height	6~8m
Pole InstallDistance	25-28m

04 Packing Dimension

Quantity	1pcs/ctn
Inside Carton Size	27*11*120cm
Outside Carton Size	122*35*29cm 3pcs/ctn
Gross Weight	24KG

★Product Packaging & Delivery



★Application

Where can use it:

- Roadside
- Park
- Stadium
- Plaza
- Street
- Parking lots
- Gas/Bus/Railway Station
- Community
- Factory
- School
- Courtyard
- Other places where need to be brighten up



★Project

We provide the customized solar allocation plan for each place of destinations to meet with different customers' needs, save 100% power, which can make your business more profitable.



★Maintenance and Warranty

Maintenance

- 1.Regularly clean the solar panel from dirt spots, dusting or other kinds of soiled is suggested to assure the charging efficiency.
- 2.Regularly maintenance is suggested keep the locking screws of pole are secured to the ground, and keep the pole clear from rust or corrosion.

Warranty

Product Warranty:

We provide you 3 years warranty. Besides, we do not accept any damages by personal reason.

Disclaimer Declaration:

- 1.The manufacturer shall not be responsible or liable for failure to perform all or any portion of this specification due to earthquake, thunder or other natural hazards, and fire disaster which not caused by the manufacturer product.
- 2.The manufacturer shall not be responsible for damage and loss caused by any unforeseen events such theft, traffic accidents.
- 3.The manufacturer shall not be responsible for loss which not complied with this product manual.
- 4.The manufacturer shall not be responsible for loss which caused by use in conjunction with irrelevant the manufacturer products.



★Contact information

A large background image showing two hands shaking in a firm grip, symbolizing a business deal or partnership. The hands are wearing light-colored suit sleeves. The background is a dark blue world map with the continents in a lighter shade of blue.

SUNFREE

www.sunfree-led.com

Factory address: 6th Floor (Elevator No.6),
Building E, Zhenbao Industrial Park, Guzhen
Town, Zhongshan, Guangdong Province, China