Electrical Information

Model No.	CPS-ST57-010	CPS-ST57-020	CPS-ST57-030	CPS-ST57-040	CPS-ST57-050	CPS-ST57-060
Power Consumption (W)	10	20	30	40	50	60
Battery	LiFePO4 battery					
Battery Capacity (WH)	38.4	57.6	76.8	153.6	153.6	230.4
Solar Panel	Mono-crystalline solar panel					
Solar Panel Wattage (W)	20	30	50	60	70	90
Charging Time (Hours)	2	2	2	3	2.5	3
Operating Time	Full power on 2.5-3 hours, Intelligent mode: 3 days					
Solar Charge Controller	MPPT					

Default Working mode (Intelligent Mode)		Time 1	Time 2	Time 3	Time 4	Time 5	Time 6	Time 7
	Working hours	0.5H	1H	1.5H	1.5H	1.5H	10H	1H
	Detected	100%	30%	26%	20%	12%	10%	30%
	Not detected	30%	10%	8%	6%	5%	3%	10%

Control	Microwave induction

* The tolerance for power is ±5%.

Optic Information

LED Type	LED 2835					
Luminous Flux (lm)	2000	4000	6000	8000	10000	12000
Efficacy (lm/W)	200					
Correlated Color Temperature	4000K (3000K, 5000K optional)					
Color Rendering Index	Ra70 (Ra80 optional)					
Beam Angle	R10801/ R10803/ R10805			R22802		
UGR level	N/A					

* The tolerance for luminious flux is ±10%.

Description

ST57 is a full range solar streetlight, six sizes cover 10W, 20W, 30W, 40W, 50W and 60W, well satisfy different applications. Smart control with built-in microwave and timer dimming offer longer discharge time. Adjustable mounting angle improves charging efficiency. Easy maintenance with removable battery.

Dimensions and Mount

Luminaire	Dimension (mm)	502x216x106					
	Net Weight (kg)	3.7	3.9	4	4.5	4.5	5.2
	Export Carton Size (mm)	570x345x140					
	Gross Weight (kg)	6.9	7.1	7.2	7.7	7.7	8.4
Solar Panel	Dimension (mm)	400x350x62	410x400x62	670x490x67	670x540x67	670x610x67	820x670x67
	Net Weight (kg)	1.7	2.3	4.6	5.6	6.1	7.5
	Export Carton Size (mm)	490x440x195	500x500x195	760x580x130	760x630x130	765x700x130	910x760x130
	Gross Weight (kg)	4.5	5.9	6.2	7.4	8.1	10
Mounting Option	Side entry					
Material	Aluminum alloy					
	Polycarbonate optical lens					
	LiFePO4 battery					
	Mono-Crystalline solar panel					
Fixture Color	Silver(RAL9006)					
EPA	1.8ft²/0.17m²	2.12ft²/0.20m²	4.24ft²/0.39m²	4.67ft²/0.43m²	5.28ft²/0.49m²	7.1ft²/0.66m²
IP Rating	IP66					
Category of corrosion	C3					

* The tolerance for weight is ±6%.

Key Features

- System efficiency up to 200lm/W.
- Six wattage with different size achieves high cost-effectivity.
- Higher conversion Mono-crystalline photovoltaic solar panel.
- Built-in microwave sensor and timmer dimming optional.
- Easy adjustment and maintenance.

Lifespan and Warranty

Operating Temperature (°C)		0 to + 50
Life Time of LED @Ta=25°C (hours)		40000hrs-L90
		82000hrs-L80
		131000hrs-L70
Warranty (Years)	Battery	3
	Other accessories	5

Applications

- Rural roadway
- Urban road
- Walk path
- Courtyard
- Parking lot
- Park
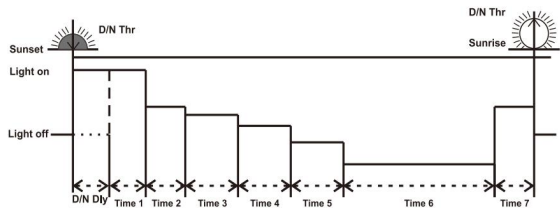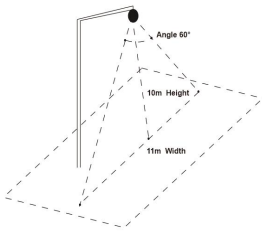- Plazas

New Features

Please consult us for details.

10W/20W/30W

40W/50W/60W

R10801

R10803

R10805

R22802
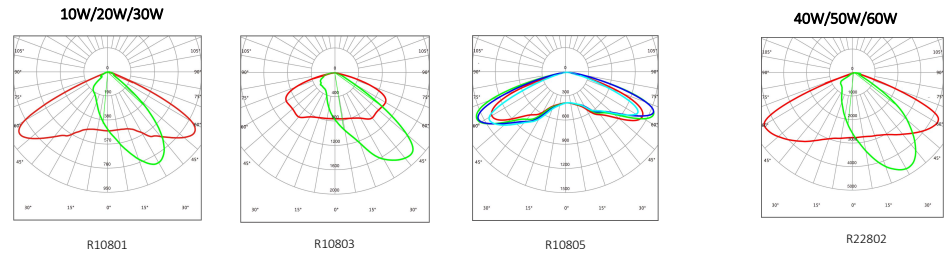
Mounting Option

Intelligent Control Mode

7 Stage Night Mode

D/N Thr

Sunset
Light on

D/N Thr

Sunrise

Light off

D/N Dly Time 1 Time 2 Time 3 Time 4 Time 5 Time 6 Time 7

*You can set the fixtures with 7 stages timmer dimming yourself by the remote Controller.

Angle 60°

10m Height

11m Width

Microwave Sensor Detection Range

Factory Default Setting:

With sufficient natural light, the light keeps charging.

The light keeps 100% brightness when presence is detected in the 1st 0.5hours.

The light keeps 30% when there is no presence is detected after 30S hold time in the 1st 0.5hours.

The light keeps 30% brightness when presence is detected in the 2st 1hours.

The light keeps 10% when there is no presence is detected after 30S hold time in the 2st 1hours.

The light keeps 26% brightness when presence is detected in the 3st 1.5hours.

The light keeps 8% when there is no presence is detected after 30S hold time in the 3st 1.5hours.

The light keeps 20% brightness when presence is detected in the 4st 1.5hours.

The light keeps 6% when there is no presence is detected after 30S hold time in the 4st 1.5hours.

The light keeps 12% brightness when presence is detected in the 5st 1.5hours.

The light keeps 5% when there is no presence is detected after 30S hold time in the 5st 1.5hours.

The light keeps 10% brightness when presence is detected in the 6st 10hours.

The light keeps 3% when there is no presence is detected after 30S hold time in the 6st 10hours.

The light keeps 30% brightness when presence is detected in the 7st 1hours.
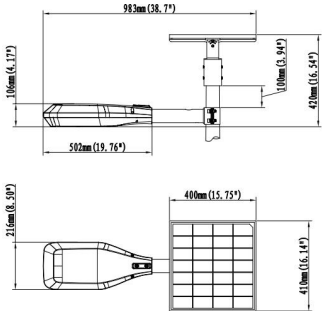
The light keeps 10% when there is no presence is detected after 30S hold time in the 7st 1hours.
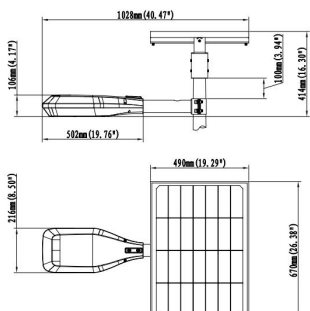
The Controller recognizes day and night based on the Solar Array Open Circuit Voltage, this day/night threshold can be modified according to local light conditions and the Solar Array Used, setting range 3.0 ~8.0V
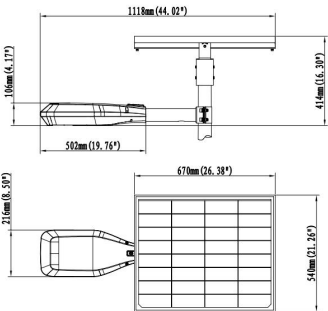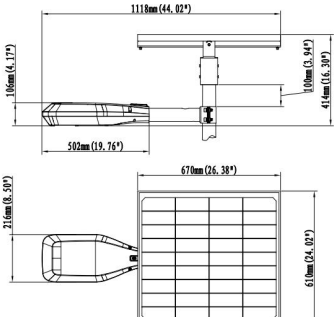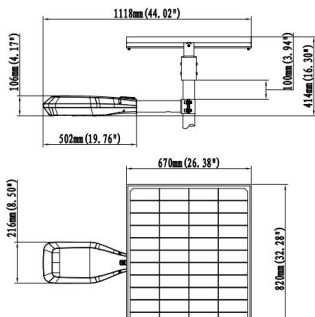
10W
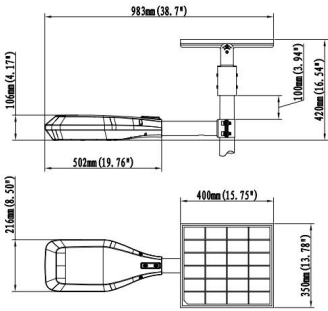
20W

30W

40W

50W

60W

Accessories

Outreach Arm with Clamp

AL6063+SPCC materials
Code: SP-R57-01(for dia 60mm lamp head)

Solar Panel Support

AL6063+SPCC materials
Code: SP-R57-02(for dia 60mm pole)

Remote control

Remote controller for solar street light
code: 8019-G