SA-All-in-one solar street lighting
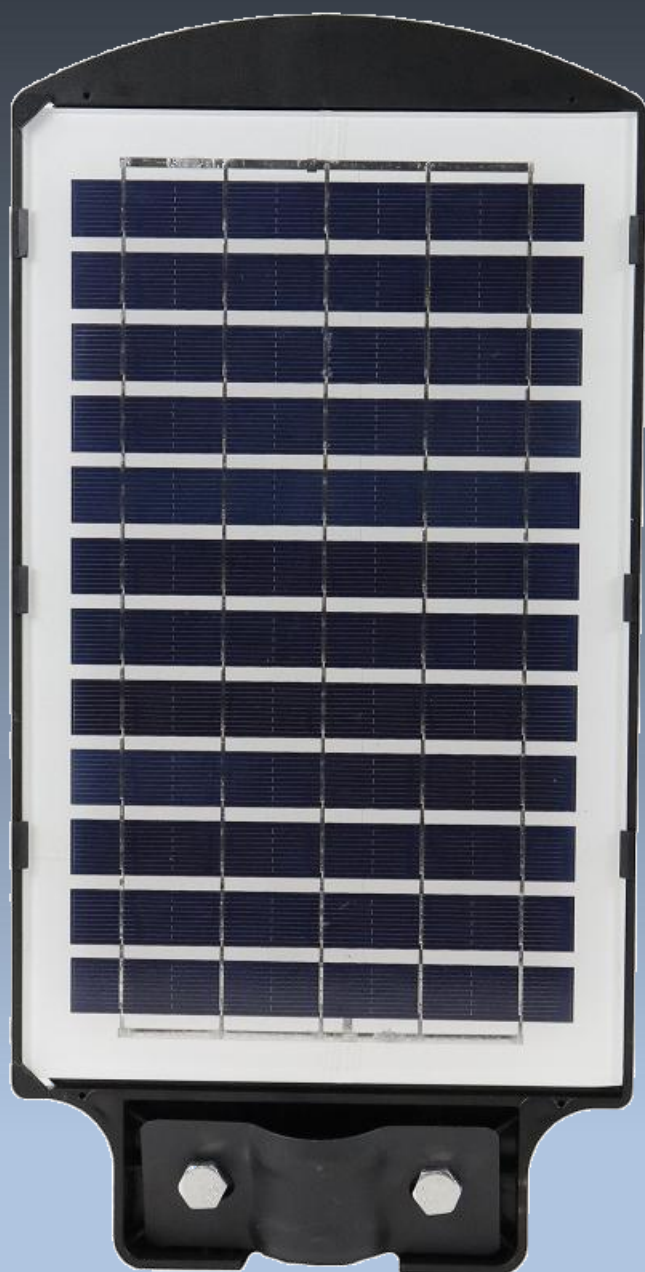
1. Parameter

LED Power	30W
Size	388*193*55mm
Battery	Lithium Iron Phosphate 3.2V/5000mAH
Solar Panel	Grade A Monocrystalline 6V/8W
Number of LED Chips	48 pieces of 5730 high-brightness LED chips
Charging Time	6-8 hours in strong sunlight
Working Time	2 rainy days
Control System	Light Control + Time Control + Remote Control
Lifespan	≥50,000 hours
Color Temperature	6500K (Conventional), 4000K, 3000K
Installation Height	2-3m
Warranty	2 years
Operating temperature	-20°C~ 60°C

1. Parameter

LED Power	60W
Size	484*218*55mm
Battery	Lithium iron phosphate 3.2V/6000mAH
Solar Panel	Grade A Monocrystalline 6V/11W
Number of LED Chips	96 high brightness 5730 LEDs
Charging Time	6-8 hours in strong sunlight
Working Time	2 rainy days
Control System	Light Control + Time Control + Remote Control
Lifespan	≥50,000 hours
Color Temperature	6500K (Conventional), 4000K, 3000K
Installation Height	2-3m
Warranty	2 years
Operating temperature	-20°C~ 60°C

1. Parameter

LED Power	90W
Size	620*238*55mm
Battery	Lithium iron phosphate 3.2V/10000mAH
Solar Panel	Grade A Monocrystalline 6V/16W
Number of LED Chips	144 high brightness 5730 LEDs
Charging Time	6-8 hours in strong sunlight
Working Time	2 rainy days
Control System	Light Control + Time Control + Remote Control
Lifespan	≥50,000 hours
Color Temperature	6500K (Conventional), 4000K, 3000K
Installation Height	3-4m
Warranty	2 years
Operating temperature	-20°C~ 60°C

1. Parameter

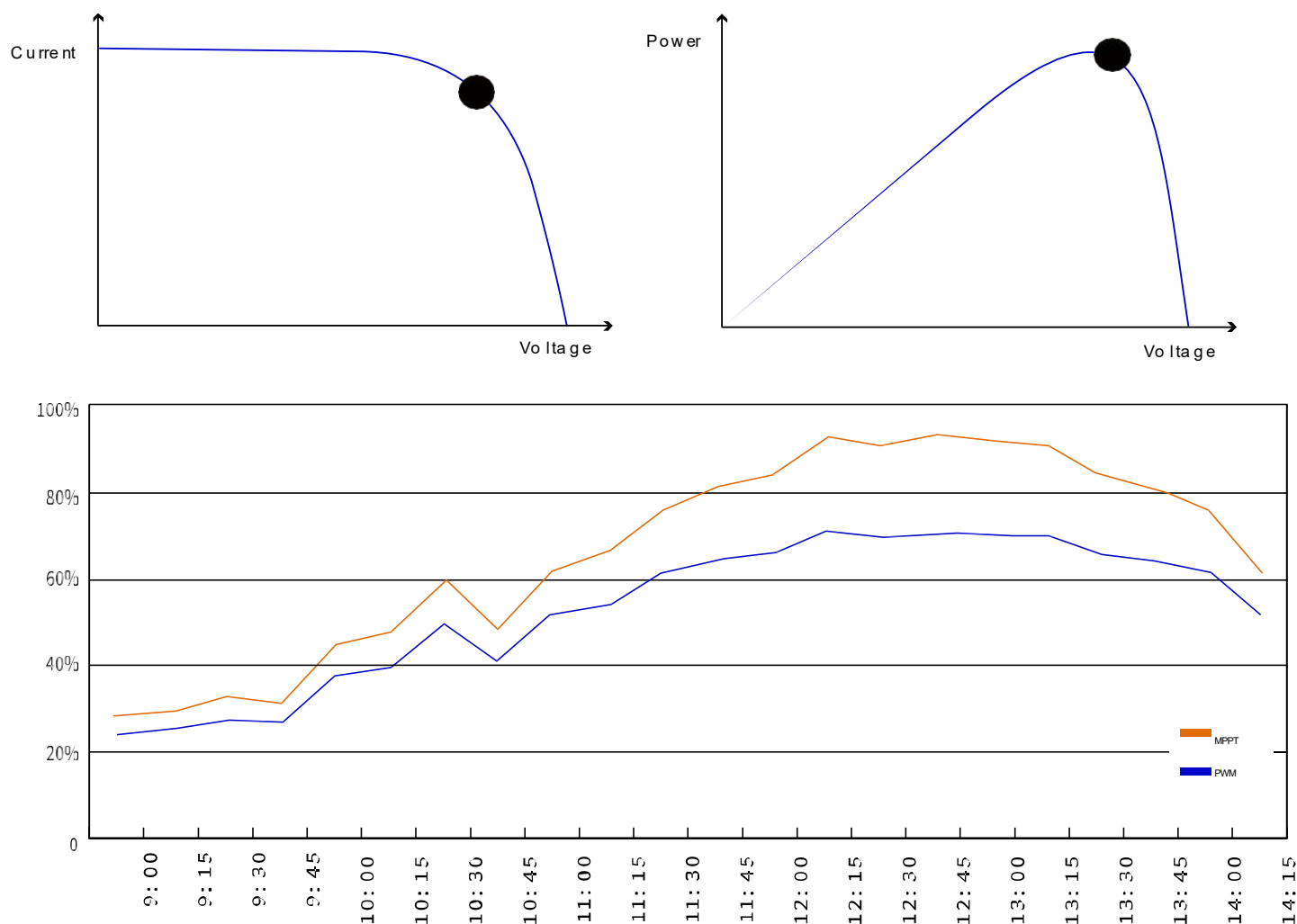| LED Power	120W
Size	720*240*55mm
Battery	Lithium iron phosphate 3.2V/13500mAH
Solar Panel	Grade A Monocrystalline 6V/20W
Number of LED Chips	192 high brightness 5730 LEDs
Charging Time	6-8 hours in strong sunlight
Working Time	2 rainy days
Control System	Light Control + Time Control + Remote Control
Lifespan	≥50,000 hours
Color Temperature	6500K (Conventional), 4000K, 3000K
Installation Height	4-5m
Warranty	2 years
Operating temperature	-20°C~ 60°C

1. Parameter

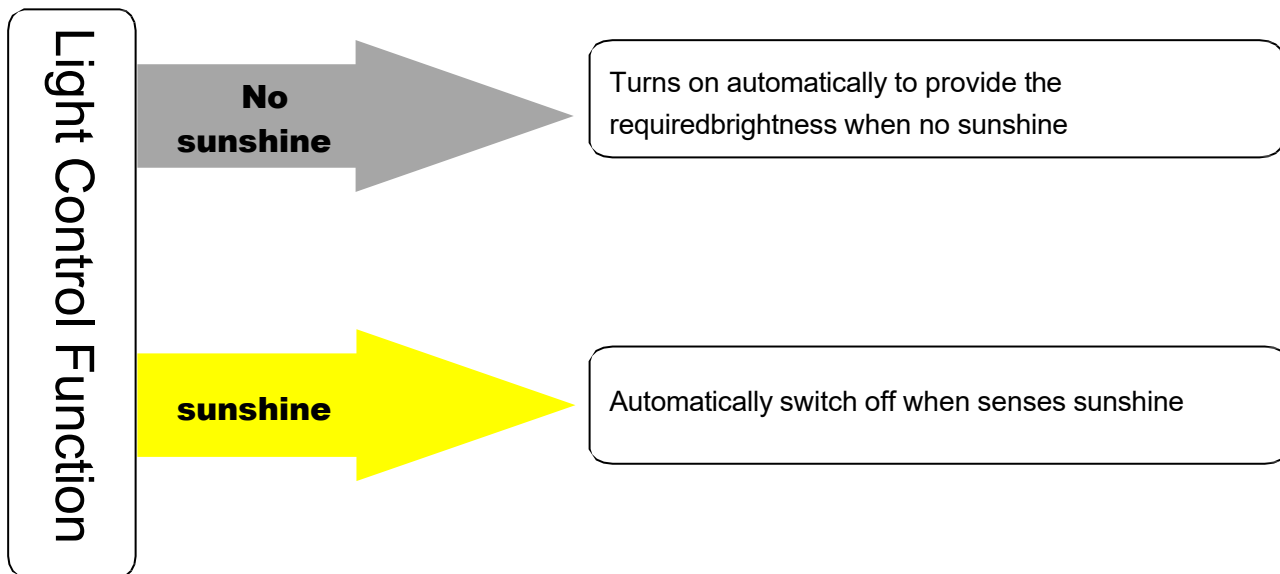| LED Power	150W
Size	820*238*55mm
Battery	Lithium iron phosphate 3.2V/15000mAH
Solar Panel	Grade A Monocrystalline 6V/23W
Number of LED Chips	240 high brightness 5730 LEDs
Charging Time	6-8 hours in strong sunlight
Working Time	2 rainy days
Control System	Light Control + Time Control + Remote Control
Lifespan	≥50,000 hours
Color Temperature	6500K (Conventional), 4000K, 3000K
Installation Height	5-6m
Warranty	2 years
Operating temperature	-20°C~ 60°C

MPPT charging Technology

"MPPT "Maximum point Tracking" controller integrates solar panel maximum power tracking charge management technology, tracking efficiency of up to 99.5%, charging conversion efficiency of up to 96%. MPPT is an advanced charging method, which can detect the solar panel's power generation in real time, and track the highest voltage and current value, so that the system can charge with the highest efficiency. MPPT can play the maximum power of the solar panel, can provide greater charging current, the charging efficiency of the MPPT controller is 15%-20% higher than the PWM controller.
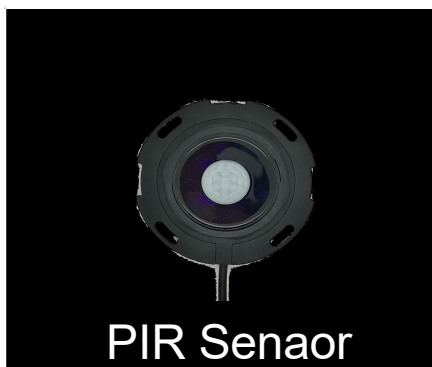

Loadingcomparisonsheet

Intelligent Control

Light Control Function

No sunshine → Turns on automatically to provide the requiredbrightness when no sunshine

sunshine → Automatically switch off when senses sunshine

PIRSensor：

PIR sensor with 100% brightness in 10m distance for 20seconds, become energy saving modle once no movenent

PIR Senaor

100% light

30% light

Lighting Mode: (Mode can be customized)
(The daily lighting duration time need to be designed to 13 hours)

100% bright lighting infrared motion sensor+60% lighting before midnight and 30% lighting till dawn (energy saving mode to prolong overcast backup days)

Command Center

Displays overall street light information, including total quantity, status, number of alerts, yesterday's and last month's energy ranking, energy statistics, and power generation/consumption trends.
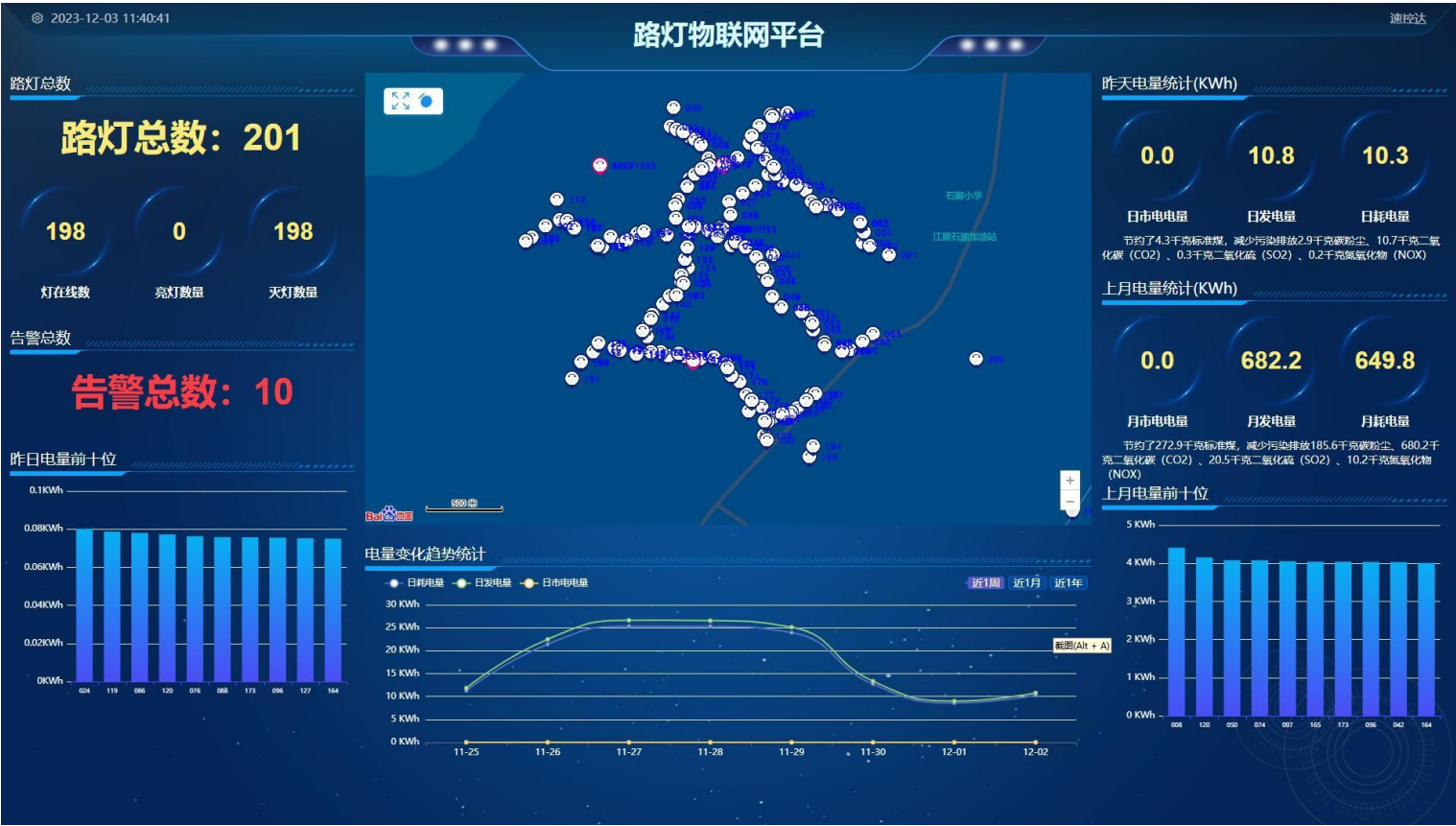
Tech. Support: Tell us the room length, width, height and the usage.
We have an engineer team to respond the DIALUX simulations for lights quantity calculation and effects.
ies files are available upon request.

Example of cross installation effect on both sides of the road:

Energy Saving Design

Highly Uniformity Design

Cut-off Angle Design
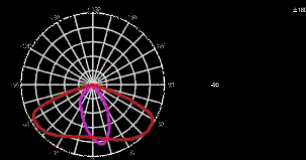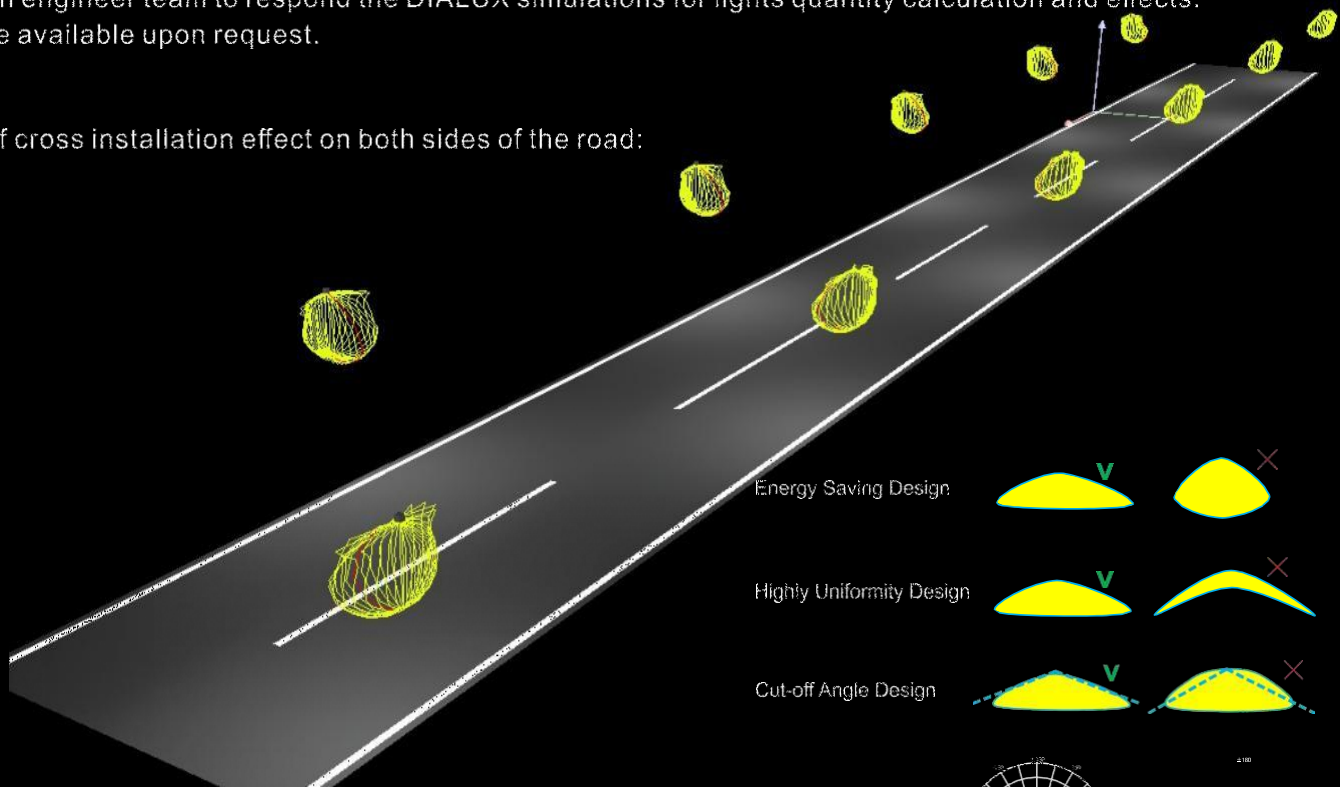
Professional road light distribution design, illuminate the road without dazzling.

Plane Lighting Distributions