PV2-SERIES





PRODUCT CATALOG



Overview

The solar street light is integrated with solar panel, led light, lithium battery, controller, constant current driver and luminaire housing. It is combined with multiple practical control technology including photoelectric effect, constant current control, microcontroller, human infrared induction. It can be used in the area without power gird.

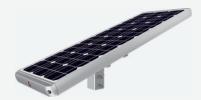
LED LUMINOUS SOURCE

Greater than 150lm/W high efficacy, illumination grade LED light source.



SOLAR PANEL

Solar panel absorbs sunlight and convert it into electricity. Efficiency more than 17%.



LITHIUM BATTERY

Lithium battery improves the reliability of the luminaire. Low temperature charging protection, which effectively protects the battery.

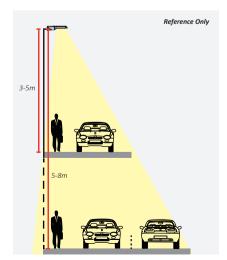


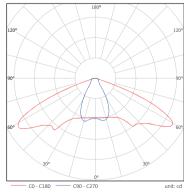
INDUCTION CONTROLLER / REMOTE CONTROL



Main Features

- $\bullet \ \mathsf{Adopts} \ \mathsf{MPPT} \ \mathsf{charging} \ \mathsf{method}, \mathsf{which} \ \mathsf{increases} \ \mathsf{the} \ \mathsf{utilization} \ \mathsf{of} \ \mathsf{solar} \ \mathsf{panel}.$
- $\bullet \ \, \text{Lithium battery low temperature charging protection, which effectively protects the battery} \; .$
- Three induction stages design. Working time can be set from 0h to 15hours, power range from 0~100%
- Human infrared induction or microwave induction function for optional, Factory default is infrared induction.
- Sensitive time delay can be set from 0s~250s.
- Record system status, can record 7days and monitor the whole system.
- Overheat protection function, when the controller reaches a certain temperature, it will decrease or close the load.
- · Working status indication, easy to maintain.





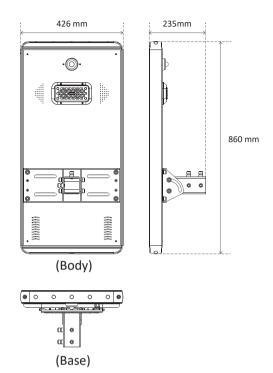
Lens code: 1S

Application (Driverway width=3.5M):

Garden, Residence, Courtyard Pedestrian and Branch Road Mine and Parking Lot Areas with no electrical supply





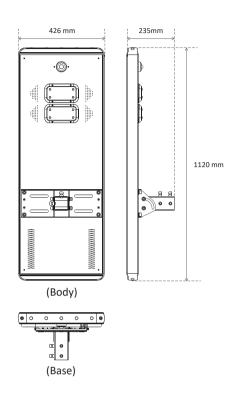


Electriccal & Photometric

| Solar Panel Spec. | Model | Power | Modules Qty | Luminaire effcacy (+/- 5%) | Lumen Output (+/- 5%) | Battery Spec. (Lithium) | Constant worktime at 100% power | Constant worktime at 30% power (Energy save mode) | Charge Time (low battery voltage) | Installation Height | Pole Distance |
|-------------------|-----------------------|-------------|-------------|-------------------------------|--------------------------|----------------------------|---------------------------------|---|--------------------------------------|---------------------|---------------|
| | ZGSM-PV501010 | 10W | 1 (30 LEDs) | 145 lm/ w | 1450 lm | 10AH /12.8V | 10 Hours | >34 Hours | 2.5 Hours | 3~4m | 9~14m |
| | ZGSM-PV501510 | 15W | 1 (30 LEDs) | 140 lm/ w | 2100 lm | 10AH /12.8V | 6.5 Hours | >22.5 Hours | 2.5 Hours | 3~5m | 9~17m |
| | ZGSM-PV502020 20W 1 (| 1 (30 LEDs) | 130 lm/ w | 2600 lm | 10AH /12.8V | 5 Hours | >17 Hours | 2.5 Hours | 4~5m | 12~17m | |
| 50W Monocrystal | | 1 (30 LEDs) | 130 lm/ w | 2600 lm | 20AH /12.8V | 10 Hours | >34 Hours | 5 Hours | 4~5m | 12~17m | |
| 30W WONOCTYSTAI | ZGSM-PV503020 | 30W | 2 (60 LEDs) | 140 lm/ w | 4200 lm | 20AH /12.8V | 6.5 Hours | >22.5 Hours | 5 Hours | 4~6m | 12~21m |
| | ZGSM-PV504020 | 40W | 2 (60 LEDs) | 130 lm/ w | 5200 lm | 20AH /12.8V | 5 Hours | >17 Hours | 5 Hours | 5~6m | 15~21m |
| | ZGSM-PV504030 | 40W | 2 (60 LEDs) | 130 lm/ w | 5200 lm | 30AH /12.8V | 7.5 Hours | >25.5 Hours | 7.5 Hours | 5~6m | 15~21m |
| | ZGSM-PV505030 | 50W | 2 (60 LEDs) | 125 lm/ w | 6250 lm | 30AH /12.8V | 6 Hours | >20 Hours | 7.5 Hours | 5~7m | 15~25m |





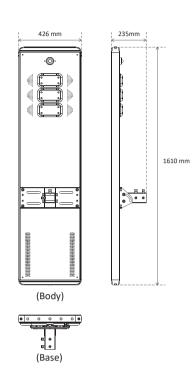


Electriccal & Photometric

| Solar Panel Spec. | Model | Power | Modules Qty | Luminaire effcacy (+/- 5%) | Lumen Output (+/- 5%) | Battery Spec. (Lithium) | Constant worktime at 100% power | Constant worktime at 30% power (Energy save mode) | Charge Time (low battery voltage) | Installation Height | Pole Distance |
|-------------------|--|---|-------------|-------------------------------|--------------------------|----------------------------|---------------------------------|---|--------------------------------------|---------------------|---------------|
| | ZGSM-PV702020 20W 2 (60 LEDs) 145 lm/ w 2900 lm 20AH /12.8V 10 Hours >34 Hours | 4~5m | 12~17m | | | | | | | | |
| | ZGSM-PV703020 | 2GSM-PV703020 30W 2 (60 LEDs) 140 lm/ w 4200 lm 20AH /12.8V 6.5 Hours >22.5 Hours | 4 Hours | 4~6m | 12~21m | | | | | | |
| | ZGSM-PV703030 | 30W | 2 (60 LEDs) | 140 lm/ w | 4200 lm | 30AH /12.8V | 10 Hours | >34 Hours | 5.5 Hours | 4~6m | 12~21m |
| | ZGSM-PV704020 | 40W | 2 (60 LEDs) | 130 lm/ w | 5200 lm | 20AH /12.8V | 5 Hours | >17 Hours | 4 Hours | 5~6m | 15~21m |
| 70W Monocrystal | ZGSM-PV704030 | 40W | 2 (60 LEDs) | 130 lm/ w | 5200 lm | 30AH /12.8V | 7.5 Hours | >25.5 Hours | 5.5 Hours | 5~6m | 15~21m |
| 70W Worldcrystal | ZGSM-PV704040 | 40W | 2 (60 LEDs) | 130 lm/ w | 5200 lm | 40AH /12.8V | 10 Hours | >34 Hours | 7.5 Hours | 5~6m | 15~21m |
| | ZGSM-PV705030 | 50W | 3 (90 LEDs) | 135 lm/ w | 6750 lm | 30AH /12.8V | 6 Hours | >20 Hours | 5.5 Hours | 5~7m | 15~25m |
| | ZGSM-PV705040 | 50W | 3 (90 LEDs) | 135 lm/ w | 6750 lm | 40AH /12.8V | 8 Hours | >27 Hours | 7.5 Hours | 5~7m | 15~25m |
| | ZGSM-PV706030 | 60W | 3 (90 LEDs) | 130 lm/ w | 7800 lm | 30AH /12.8V | 5 Hours | >17 Hours | 5.5 Hours | 6~8m | 18~35m |
| | ZGSM-PV706040 | 60W | 3 (90 LEDs) | 130 lm/ w | 7800 lm | 40AH /12.8V | 6.5 Hours | >22.5 Hours | 7 .5 Hours | 6~8m | 18~35m |







Electriccal & Photometric

| Solar Panel Spec. | Model | Power | Modules Qty | Luminaire effcacy (+/- 5%) | Lumen Output (+/- 5%) | Battery Spec. (Lithium) | Constant worktime at 100% power | Constant worktime at 30% power (Energy save mode) | Charge Time (low battery voltage) | Installation Height | Pole Distance |
|-------------------|----------------|-------|-------------|-------------------------------|--------------------------|----------------------------|---------------------------------|---|--------------------------------------|---------------------|---------------|
| | ZGSM-PV1003020 | 30W | 3 (90 LEDs) | 145 lm/ w | 4350 lm | 20AH /12.8V | 6.5 Hours | >22.5 Hours | 2.5 Hours | 4~6m | 12~21m |
| | ZGSM-PV1003030 | 30W | 3 (90 LEDs) | 145 lm/ w | 4350 lm | 30AH /12.8V | 10 Hours | >34 Hours | 4 Hours | 4~6m | 12~21m |
| | ZGSM-PV1004020 | 40W | 3 (90 LEDs) | 140 lm/ w | 5600 lm | 20AH /12.8V | 5 Hours | >17 Hours | 2.5 Hours | 5~6m | 15~21m |
| | ZGSM-PV1004030 | 40W | 3 (90 LEDs) | 140 lm/ w | 5600 lm | 30AH /12.8V | 7.5 Hours | >25.5 Hours | 4 Hours | 5~6m | 15~21m |
| | ZGSM-PV1004040 | 40W | 3 (90 LEDs) | 140 lm/ w | 5600 lm | 40AH /12.8V | 10 Hours | >34 Hours | 5 Hours | 5~6m | 15~21m |
| 100W Monocrystal | ZGSM-PV1005030 | 50W | 3 (90 LEDs) | 135 lm/ w | 6750 lm | 30AH /12.8V | 6 Hours | >20 Hours | 4 Hours | 5~7m | 15~25m |
| | ZGSM-PV1005040 | 50W | 3 (90 LEDs) | 135 lm/ w | 6750 lm | 40AH /12.8V | 8 Hours | >27 Hours | 5 Hours | 5~7m | 15~25m |
| | ZGSM-PV1005045 | 50W | 3 (90 LEDs) | 135 lm/ w | 6750 lm | 45AH /12.8V | 9 Hours | >30.5 Hours | 6 Hours | 5~7m | 15~25m |
| | ZGSM-PV1006030 | 60W | 3 (90 LEDs) | 130 lm/ w | 7800 lm | 30AH /12.8V | 5 Hours | >17 Hours | 4 Hours | 6~8m | 18~35m |
| | ZGSM-PV1006040 | 60W | 3 (90 LEDs) | 130 lm/ w | 7800 lm | 40AH /12.8V | 6.5 Hours | >22.5 Hours | 5 Hours | 6~8m | 18~35m |
| | ZGSM-PV1006045 | 60W | 3 (90 LEDs) | 130 lm/ w | 7800 lm | 45AH /12.8V | 7.5 Hours | >25.5 Hours | 6 Hours | 6~8m | 18~35m |



SERIES-PV2 LED SOLAR STREET LIGHTS

Working Environment & Packing

| Solar Panel | Model | Working Temperature | CRI | ССТ | Optic | Rating | Induction Type | Pole Aperture | Body/ Base Carton Size (mm) | N.W (kg) | Body/ Base G.W (kg) |
|------------------|--|------------------------|-----|-----------------------|-------|--------------|---|---|--------------------------------|-------------|------------------------|
| | ZGSM-PV501010 ZGSM-PV501510 ZGSM-PV502010 | | | | | | microwave induction function for optional, Factory default Sq | | 915*485*140/ 410*160*205 | 13.8 | 11.9/ 4.2 |
| Manager 150M/ | ZGSM-PV502020 |] | | | | | | | | 14.9 | 13.0/ 4.2 |
| Monocrystal 50W | ZGSM-PV503020 ZGSM-PV504020 | | | | | | | | | 15.3 | 13.4/ 4.2 |
| | ZGSM-PV504030 ZGSM-PV505030 | | | 3000* 4000 5000 | | | | | | 16.5 | 14.6/ 4.2 |
| | ZGSM-PV702020 ZGSM-PV703020 ZGSM-PV704020 | -20 °C ~ +60 °C | | | | IP65 IK10 | | | | 16.8 | 15.3/ 4.2 |
| | ZGSM-PV703030 ZGSM-PV704030 | | | | 15 | | | Round pole: Ф60mm; Square pole: 60 x60mm | | 18.0 | 16.4/ 4.2 |
| Monocrystal 70W | ZGSM-PV704040 | | >70 | | | | | | | 19.0 | 17.4/ 4.2 |
| | ZGSM-PV705030 ZGSM-PV706030 | | | 5700 | | | | | | 18.4 | 16.8/ 4.2 |
| | ZGSM-PV705040 ZGSM-PV706040 | | | | | | | | | 19.4 | 17.8/ 4.2 |
| | ZGSM-PV1003020 ZGSM-PV1004020 | | | | | | | | | | |
| Monocrystal 100W | ZGSM-PV1003030 ZGSM-PV1004030 ZGSM-PV1005030 ZGSM-PV1006030 | | | | | | | | 1665*485*140/ 410*160*205 | 22.8 | 22.1/ 4.2 |
| | ZGSM-PV1004040 ZGSM-PV1005040 ZGSM-PV1006040 | | | | | | | | | 23.8 | 23.1/ 4.2 |
| | ZGSM-PV1005045 ZGSM-PV1006045 | | | | | | | | | 25.0 | 24.3/ 4.2 |

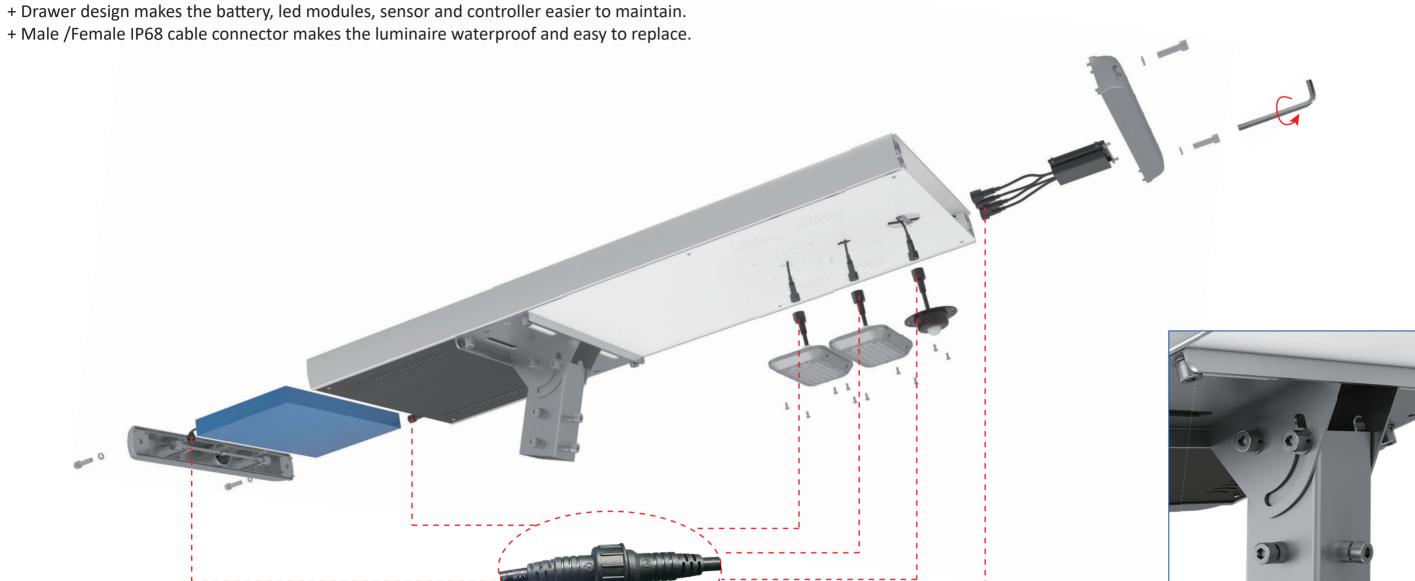
Note: Above data of weight are all typical values.

Certification

| Manufacturer |
|-------------------------------|
| ISO9001, ISO14001 |
| PV2 Series [All the models] |
| CE, ROHS, LM80 |



Convenient maintenance:



Angle of Mounting bracket: 0-90°

