# PV5 SERIES LED SOLAR STREET LIGHT





## AREAS OF APPLICATION

- Village Roads
- Public Areas
- Courtyards
- Parking Lots



### PV5 | PRODUCT FEATURES





## **Key Features**

- AC/DC Hybrid Function is optional.
- Multiple installation modes are supported.
- 10-period programmable load power/time control.
- High-efficiency monocrystalline silicon solar panels with a conversion efficiency of 23%.
- Intelligent battery management, prolong the service life of lithium battery.
- Adopting MPPT intelligent controller, the charging efficiency is up to 96%.
- Microwave and human body induction control, realize intelligent power saving mode.
- Intelligent power mode, power adjustable automatically according to the battery level.
- Extensible to IoT remote communication monitoring function.

## PV5 | INSTALLATION





### **Horizontal Installation**

## Vertical Installation



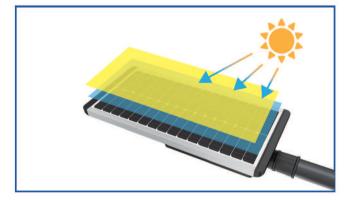
### PV5 | PRODUCT ADVANTAGE



#### **High Efficiency**

Using high-efficiency Bridgelux LED Chips, the whole light efficiency is up to 220LM/W.





#### Mono Solar Panel

23% photoelectric conversion efficiency.

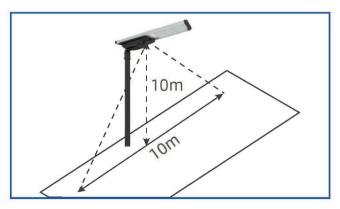
#### LiFePo4 Battery

100% new battery cells and high-quality protection boards to ensure a long battery life, the battery pack is replaceable and easy to change.



#### Sensor

With microwave inductive sensor, Up to 10m sensing distance and 10m sensing height.



### PV5 | PRODUCT ADVANTAGE



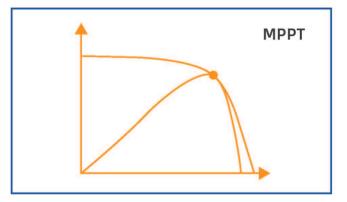
#### **Remote Control**

2.4G wireless communication, allowing for the setting, reading of parameters, and checking the status of lighting fixtures.



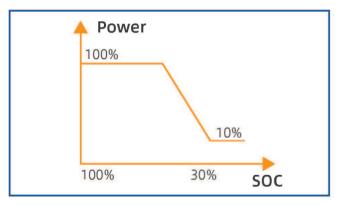
#### **MPPT Controller**

Maximum power tracking technology, tracking efficiency up to 99.5%, charging conversion efficiency up to 96%.



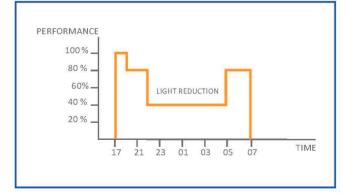
## Intelligent

A variety of intelligent power modes are available for choice, with load power adjustable automatically according to the battery level.



### **Timer Dimming**

Supports up to 10-period programmable load power/time control.



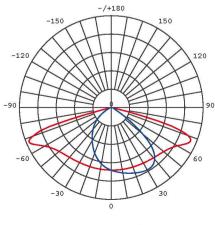
## PV5 | PRODUCT SPECIFICATIONS



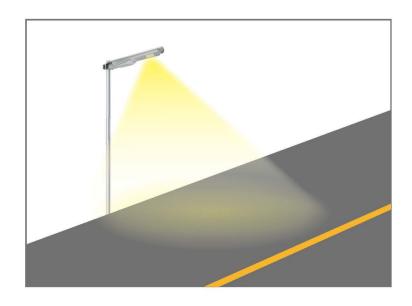
#### **Product Information**

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Model No	ZGSM-PV5-40	ZGSM-PV5-50	ZGSM-PV5-60	ZGSM-PV5-80	ZGSM-PV5-100	ZGSM-PV5-120			
Efficiency	220LM /W	220LM /W	220LM /W	220LM /W	220LM /W	220LM /W			
Lumen	8800LM	11000LM	13200LM	17600LM	22000LM	26400LM			
PV module	Monocrystalline 65W	Monocrystalline 70W	Monocrystalline 70W	Monocrystalline 100W	Monocrystalline 120W	Monocrystalline 120W			
LiFePo4 Battery	18AH /12.8V (230WH)	24AH / 12.8V (307WH)	30AH /12.8V (384WH)	36AH /12.8V (461WH)	48AH /12.8V (614WH)	54AH / 12.8V (691WH)			
Charge Time	4.2hours	4.8hours	5.9hours	5.1hours	5.6hours	6.3hours			
Installation Height	6-7m	6-8m	6-8m	8-9m	8-10m	9-11m			
Installation Distance	20-28m	20-32m	20-32m	25-35m	30-40m	35-45m			
LED Chip	High Bright Bridgelux								
ССТ	3000-6500K (can be customized)								
Life Span	L70>100, 000 hours								
Working Time	8-40 hours /5-7 days								
Working Mode	Motion / PIR Sensor / Timer								
Charging Mode	MPPT								
Light Distributions	Туре II								
Working Temperature	-15°C to +70°C								
Pole diameter	70-76mm (suggestion)								
IP Rating	IP66								
Warranty	3 Years								

#### Photometry

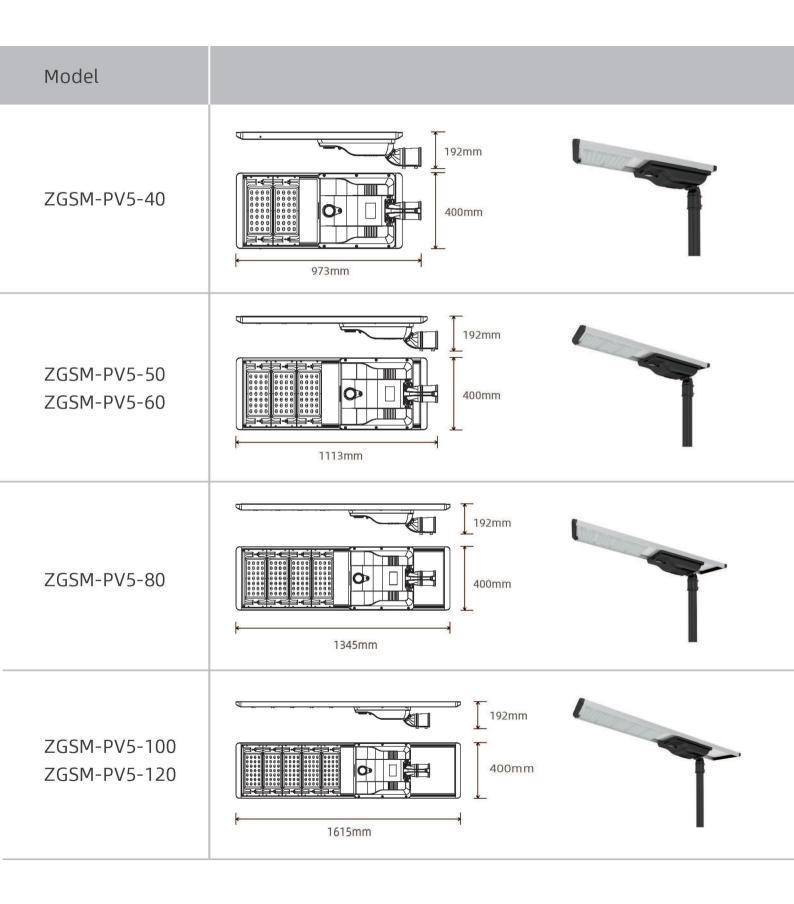


Type II Medium



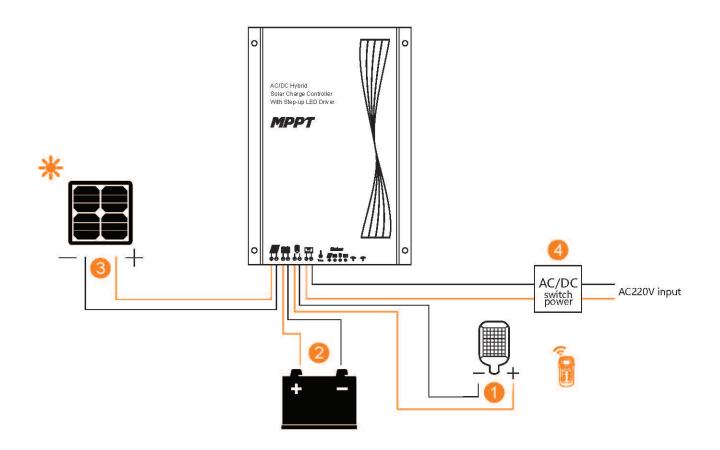
## PV5 | DIMENSION FIGURE







## AC/DC Hybrid Function Diagram



In areas with insufficient solar energy, a AC/DC Hybrid Solution is available. When the battery level is low, the system automatically switches to AC power supply, and when the battery is sufficiently charged, it switches back to battery operation. Please confirm with the ZGSM sales team if you have similar requirements before making a purchase.

Here have two modes for choosing, Battery priority and AC priority.

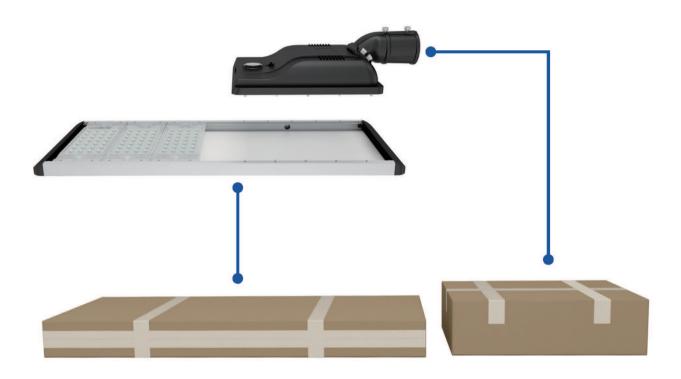
#### **Battery Priority**

When the battery voltage is higher than the [switching voltage], the battery power should be used preferentially; when the battery voltage is lower than the power supply and [switching voltage] is set lower than the battery voltage, the battery is in the preferential mode.

#### **AC Priority**

In case of municipal power access, municipal power shall be supplied to the load preferentially. Whenthere is no municipal power or the municipal power voltage is incorrect, it shall switch to battery for power supply. When [switching voltage] is set higher than the maximum voltage of the battery, the commercial power is in the preferential mode.





2 packages: 1pc lamp body per carton + 1pc battery box per carton

#### Packing information

Model No	ZGSM-PV5-40	ZGSM-PV5-50	ZGSM-PV5-60	ZGSM-PV5-80	ZGSM-PV5-100	ZGSM-PV5-120
Fixture Dimension(mm)	973 x400 x192	1113 x400 x192	1113 x400 x192	1345 x400 x192	1615 x400 x192	1615 x400 x192
Fixture Weight (Kgs)	12.1	13.4	14.3	16.6	19.3	19.9
Packing Type	Two-Part Packing					
Lamp Body Carton Size (mm)	950 x110 x475	1130 x110 x475	1130 x110 x475	1420 x110 x475	1690 x110 x475	1690 x110 x475
Battery Box Carton Size (mm)	560 x440 x165					
Lamp Body Carton Weight (kgs)	6.4	7.7	7.7	9.7	10	10
Battery Box Carton Weight (Kgs)	8.1	8.7	9.3	9.9	11.1	11.7

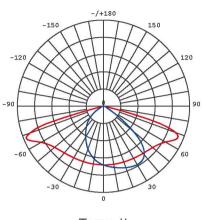
## PV5 | PRODUCT EXPLODED VIEW



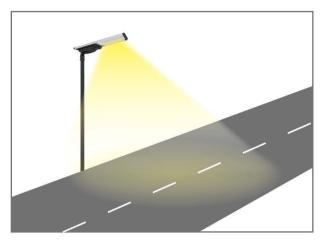








Type II



#### Factory Default Setting:



With sufficient natural light, the light keeps charging.



The light keeps 100% brightness when presence is detected, and the induction delay is about 155.



The light keeps 20% brightness when no presence is detected.

