



**3** YEAR WARRANTY



LM-80



RoHS Compliant

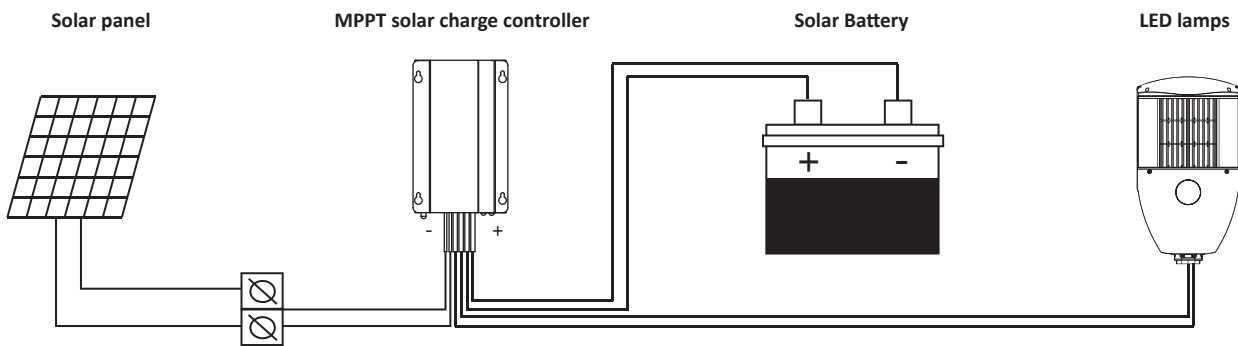
### Key Features

- Wide power range: 25W~120W.
- Special circuit design, single LED's damage won't affect others' normal work.
- High Lumen output up to 165lm/ w with high quality LED chips.
- Monocrystalline silicon solar panels, greatly improving solar energy conversion efficiency.
- High end battery improves the reliability of the luminaire.
- Smart MPPT controller realizes intelligent control of lamps.
- Multiple lighting control options are available, e.g. photocell, timer dimming.

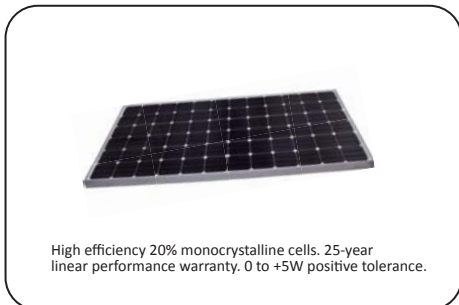
### Applications

Street | Road | Highway | Parking lot | Path | Garden

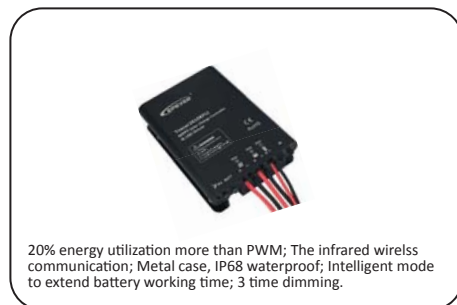
### Parts Connection Diagram



#### High Efficacy Solar Panel





#### MPPT Solar Controller






#### Stable Performance Battery




### Electrical & Photometric

Number of Modules	Model	Power	Luminaire efficacy (+/- 5%)	Lumen Output (+/- 5%)	Battery ( back up for 30 hours )	Solar Panel ( working 10h / night )	Controller	Peak sunshine
	ZGSM-LD40H4	40W	140 /165 lm/w	5600 /6600 lm	150AH /12V	100W /18V	10A	5h
	ZGSM-LD50H5	50W	140 /165 lm/w	6500 /8000 lm	200AH /12V	130W /18V	10A	5h
	ZGSM-LD60H6	60W	140 /165 lm/w	7500 /9300 lm	250AH /12V	160W /18V	15A	5h
	ZGSM-LD80H4	80W	140 /165 lm/w	11200 /13200 lm	150AH /12V*2pcs	200W /36V	10A	5h
	ZGSM-LD100H5	100W	140 /165 lm/w	13000 /16000 lm	200AH /12V*2pcs	130W /18V*2pcs	15A	5h
	ZGSM-LD120H6	120W	140 /165 lm/w	15000 /18600 lm	250AH /12V*2pcs	160W /18V*2pcs	15A	5h

Series	Model	Power	Luminaire efficacy (+/- 5%)	Lumen Output (+/- 5%)	Battery ( back up for 30 hours )	Solar Panel ( working 10h / night )	Controller	Peak sunshine
	ZGSM-LD25KS	25W	125 /145 lm/w	3125 /3625 lm	100AH /12V	75W /18V	10A	5h
	ZGSM-LD35KS	35W	125 /145 lm/w	4375 /5075 lm	120AH /12V	100W /18V	10A	5h
	ZGSM-LD55KS	55W	125 /145 lm/w	6875 /7975 lm	220AH /12V	150W /18V	15A	5h
	ZGSM-LD60KM	60W	125 /145 lm/w	7800 /9000 lm	250AH /12V	160W /18V	15A	5h
	ZGSM-LD90KM	90W	125 /145 lm/w	11700 /13500 lm	180AH /12V*2pcs	120W /18V*2pcs	10A	5h
	ZGSM-LD120KM	120W	125 /145 lm/w	15600 /18000 lm	250AH /12V*2pcs	160W /18V*2pcs	15A	5h

Series	Model	Power	Luminaire efficacy (+/- 5%)	Lumen Output (+/- 5%)	Battery ( back up for 30 hours )	Solar Panel ( working 10h / night )	Controller	Peak sunshine
	ZGSM-LD28Kmini	28W	135 lm/w	3780 lm	100AH /12V	75W /18V	10A	5h
	ZGSM-LD38Kmini	38W	130 lm/w	4940 lm	150AH /12V	100W /18V	10A	5h
	ZGSM-LD57Kmini	57W	130 lm/w	7410 lm	220AH /12V	150W /18V	15A	5h

Series	Model	Power	Luminaire efficacy (+/- 5%)	Lumen Output (+/- 5%)	Battery ( back up for 30 hours )	Solar Panel ( working 10h per night )	Controller	Peak sunshine
	ZGSM-LD27LM	27W	130 /150 lm/w	3510 /4050 lm	100AH /12V	75W /18V	10A	5h
	ZGSM-LD37LM	37W	130 /150 lm/w	4810 /5550 lm	150AH /12V	100W /18V	10A	5h
	ZGSM-LD56LM	56W	130 /150 lm/w	7280 /8400 lm	220AH /12V	150W /18V	15A	5h
	ZGSM-LD70LM	70W	130 /150 lm/w	9100 /10500 lm	150AH /12V*2pcs	200W /36V	10A	5h
	ZGSM-LD90LM	90W	130 /150 lm/w	11700 /13500 lm	180AH /12V*2pcs	120W /18V*2pcs	10A	5h
	ZGSM-LD120LM	120W	130 /150 lm/w	15600 /17400 lm	250AH /12V*2pcs	160W /18V*2pcs	15A	5h

### Customized service

Due to each city has its own sunshine condition, and customers have different working hours and rainy days on request,

if you want to know the more exact configuration, please contact us for below questions:

1. What is the geographical location your solar LED street lighting system will be installed?
2. How many hours per night the LED street light works?
3. How many days to backup in case of continuous rainy days?
4. Do you need dimming the LED street light (during the off-peak hours)?
5. Do you have any other requirements?

### Working Environment

System Voltage	DC12V/24V	Efficacy	125-165lm/w
LED Brand	Lumileds	CCT	3000K/ 4000K/ 5000K/ 5700K
Controller Type	MPPT controller	Min CRI	70 ( 80 optional )
Battery Type	Gel/Lead-acid or Lithium battery	Rating	IP66
Solar Panel type	Monocrystalline silicon solar panel	Optic ( IESNA )	Type I Medium, Type II Medium, Type III Medium
Operating Temperature	-25°C ~ +50°C	Dimming Options	Timer
Working Environment	-25°C ~ +50°C, 10% ~ 90%RH.	Control Options	Photocell