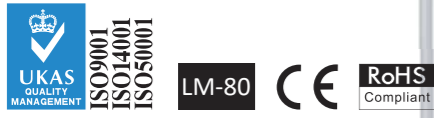




3 YEAR WARRANTY



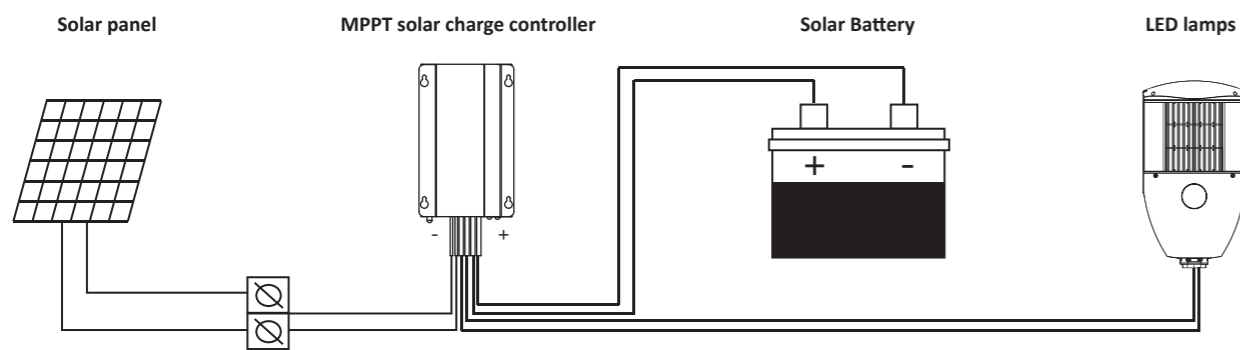
Key Features

- Wide power range: 20W~130W.
- 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



High efficiency 20% monocrystalline cells. 25-year linear performance warranty. 0 to +5W positive tolerance.

MPPT Solar Controller



20% energy utilization more than PWM; The infrared wireless communication; Metal case, IP68 waterproof; Intelligent mode to extend battery working time; 3 time dimming.

Stable Performance Battery



Long lifetime up to 8-10 years; Maintenance free operation; Gel/Lead-acid Battery, or Lithium Battery; Environmental & non-polluting; Safe and reliable.

SERIES-PV LED SOLAR STREET LIGHTS

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
1	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
2	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
KS	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
KM	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
Kmini	ZGSM-LD20Kmini+	20W	156 /160 lm/ w	3120 /3200 lm	100AH /12V	75W /18V	10A	5h
	ZGSM-LD30Kmini+	30W	151 lm/ w	4530 lm	100AH /12V	75W /18V	10A	5h
	ZGSM-LD40Kmini+	40W	147 lm/ w	5880 lm	150AH /12V	100W /18V	10A	5h
	ZGSM-LD50Kmini	50W	142 lm/ w	7100 lm	200AH /12V	130W /18V	10A	5h
	ZGSM-LD60Kmini	60W	137 /144 lm/ w	8220 /7632 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
Kmini2	ZGSM-LD60Kmini2+	60W	153 /163 lm/ w	9180 /9780 lm	250AH /12V	160W /18V	15A	5h
	ZGSM-LD70Kmini2+	70W	153 /160 lm/ w	10710 /11200 lm	150AH /12V*2pcs	200W /36V	10A	5h
	ZGSM-LD80Kmini2+	80W	153 /160 lm/ w	12240 /12800 lm	150AH /12V*2pcs	200W /36V	10A	5h
	ZGSM-LD90Kmini2+	90W	150 /157 lm/ w	13500 /14130 lm	180AH /12V*2pcs	120W /18V*2pcs	10A	5h
	ZGSM-LD100Kmini2+	100W	146 /154 lm/ w	14600 /15400 lm	200AH /12V*2pcs	130W /18V*2pcs	15A	5h
	ZGSM-LD110Kmini2	110W	143 /155 lm/ w	15730 /17050 lm	250AH /12V*2pcs	160W /18V*2pcs	15A	5h
	ZGSM-LD120Kmini2	120W	140 /152 lm/ w	16800 /18240 lm	250AH /12V*2pcs	160W /18V*2pcs	15A	5h
	ZGSM-LD130Kmini2	130W	136 /150 lm/ w	17680 /19500 lm	250AH /12V*2pcs	160W /18V*2pcs	15A	5h

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