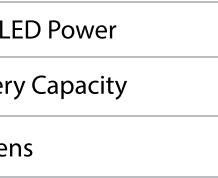




Specification



	ML-MAXIMA-40	ML-MAXIMA-64	ML-MAXIMA-100	ML-MAXIMA-120
Height	650mm	950mm	1330mm	1610mm

Parameter

Solar Panel Power	60W	80W	140W	160W
Max LED Power	40W	64W	100W	120W
Battery Capacity	18Ah*12.8V	24Ah*12.8V	39Ah*12.8V	48Ah*12.8V
Lumens	6400lm	9600lm	16000lm	19200lm
L*W*H	650*550*63mm	950*550*63mm	1330*550*63mm	1610*550*63mm
Mounting Height	4-6m	6-8m	7-9m	9-12m
Mounting Space	15-20m	20-25m	25-30m	30-35m

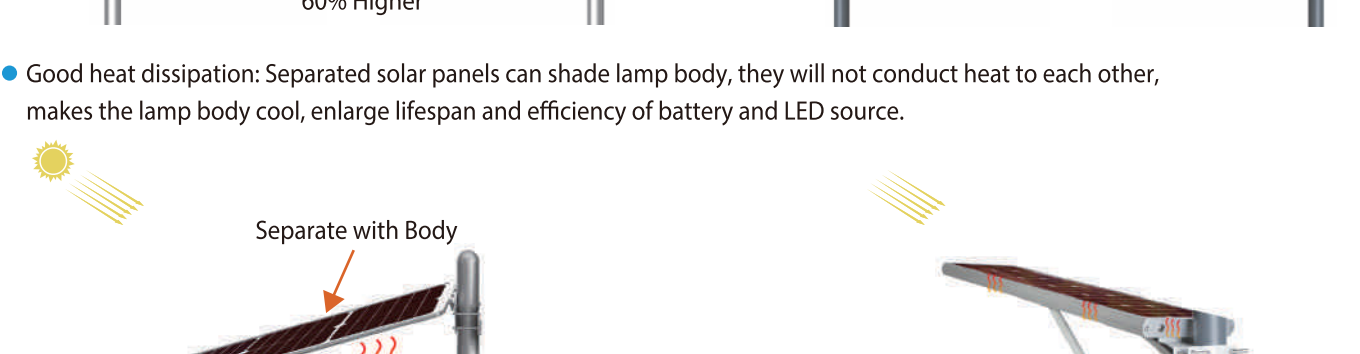
General

Solar Panel	A-Class, Mono-crystalline silicon, Efficiency 19.6%, 25 years Lifespan
LED Chip	CREE from USA with high brightness, 50 000 hours Lifespan
Battery	Lithium battery, 8-10 years Lifespan
Viewing Angle	80°x150°
Charge Time	4-6 hours (in strong enough sunshine)
Back up Raining days	3-5 days
Working Temperature	-20 °C ~+70 °C
Colour Temperature	5000K
Lamps Material	All Die-Casting Aluminium Alloy
Certificate	CE / ROHS / IP65

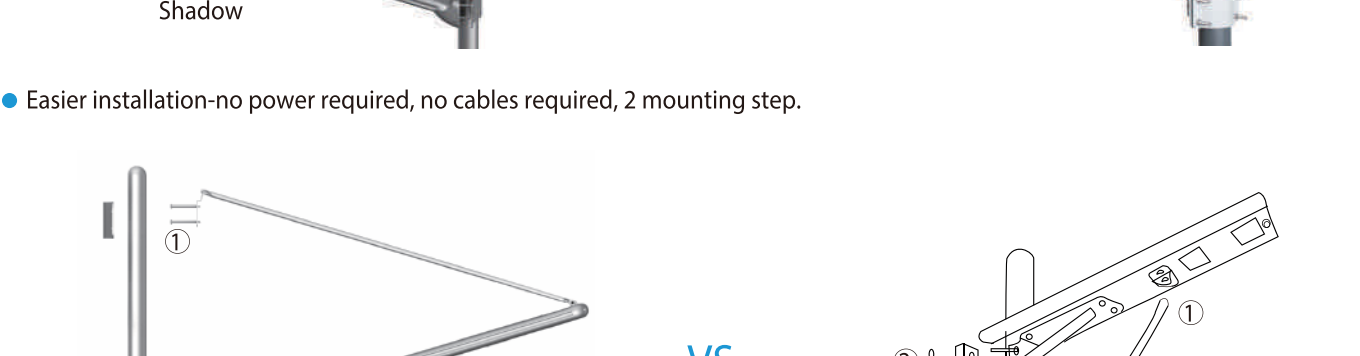
Advantages (MAXIMA VS Traditional ALL IN ONE)



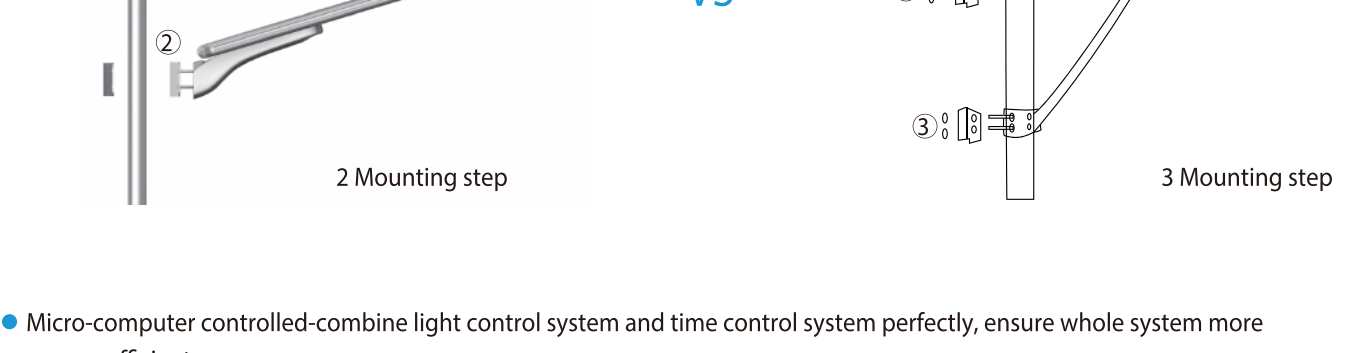
- Solar panel could rise up and fold, which is better for solar panel face the sun direction in both side of road.



- Good heat dissipation: Separated solar panels can shade lamp body, they will not conduct heat to each other, makes the lamp body cool, enlarge lifespan and efficiency of battery and LED source.



- Easier installation-no power required, no cables required, 2 mounting step.



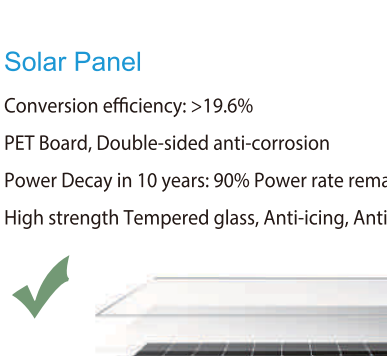
- Micro-computer controlled-combine light control system and time control system perfectly, ensure whole system more energy-efficient.
- Extreme light efficiency reach 180lm/w, at same illumination, lower watt available.
- Low cost-Compared with traditional solar led lights, much lower cost, easy to transport No Hg, Pb or other hazardous materials, no radiation, human safety.

Advantages -Material

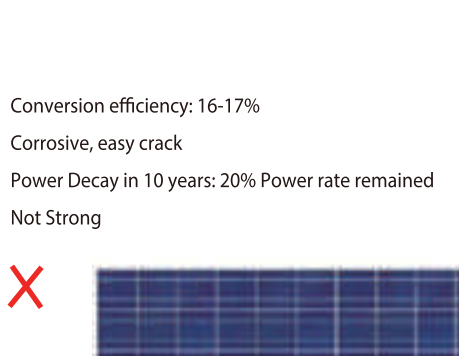


LED Chip

Light Efficiency: 160lm/w for complete Lamp, 210lm/s for single LED Chip
Brightness decay in 5 years: More than 80% Brightness Remained
CRI: >70
Viewing Angle: 150° * 80° (use large viewing angle optical lens)

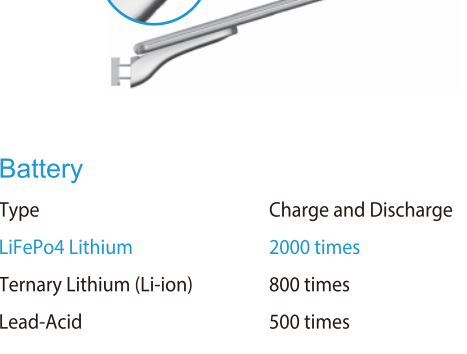


Light Efficiency: 110lm/w for entire Lamp, 160lm/s for single LED Chip
Brightness Decay in 5 years: Only 20% brightness remained
CRI: <70
Viewing Angle: 120° * 60° (use common optical lens)

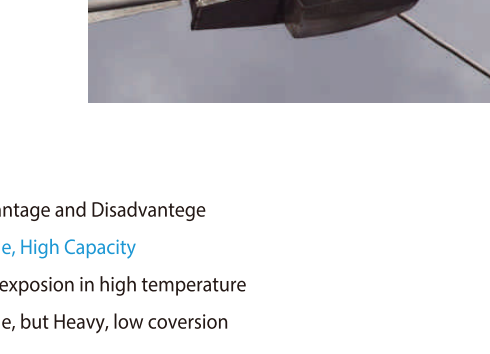


Solar Panel

Conversion efficiency: >19.6%
PET Board, Double-sided anti-corrosion
Power Decay in 10 years: 90% Power rate remained
High strength Tempered glass, Anti-icing, Anti-Sandstorm

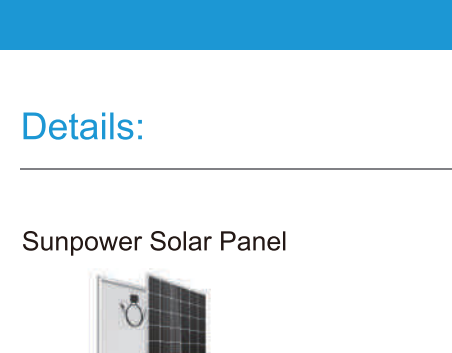


Conversion efficiency: 16-17%
Corrosive, easy crack
Power Decay in 10 years: 20% Power rate remained
Not Strong

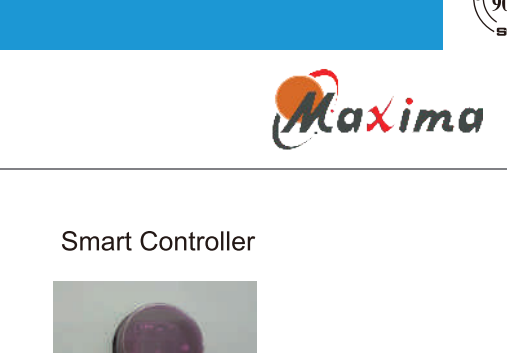


Hardware

High quality All Die-cast Aluminum Alloy
stronge, corrosion resistance in seaside and desert



Normal Iron, easy corrosion and break



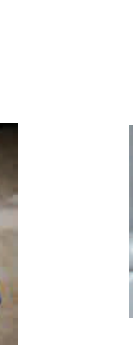
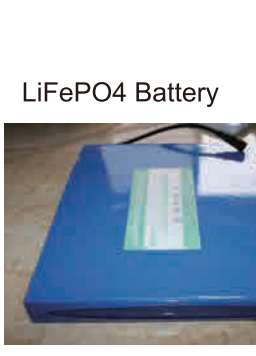
Battery

Type
LiFePO4 Lithium
Ternary Lithium (Li-ion)
Lead-Acid

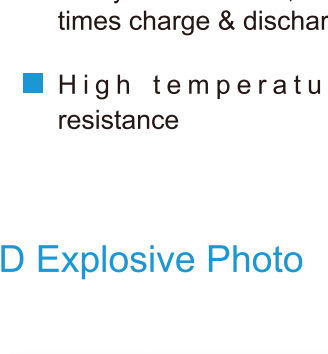
Charge and Discharge
2000 times
800 times
500 times

Price
High
1/2 of LiFePO4
1/3 of LiFePO4

Advantage and Disadvantage
Stable, High Capacity
May exposure in high temperature
Stable, but Heavy, low conversion

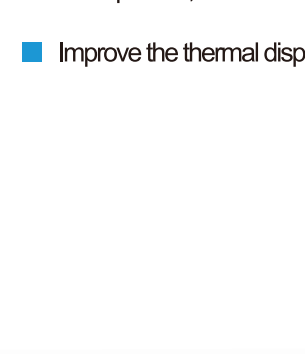


LiFePO4 Battery



- High capacity
- No pollution and stable
- 5-8 years lifetime, ≥20 00 times charge & discharge
- High temperature resistance

High quality body



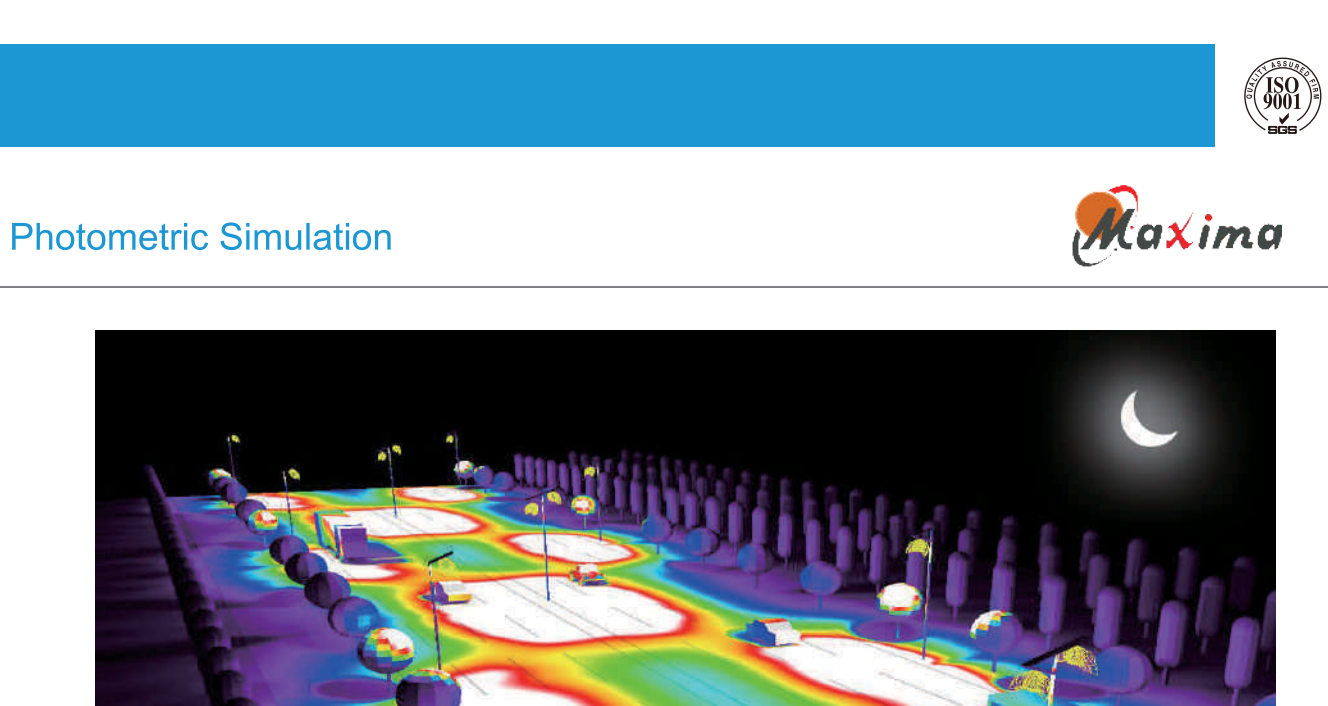
- patent design
- Aluminum alloy, solid and firm
- Zinc plated, anti-rust corrosion
- Improve the thermal dispersion

Thermal dispersion Slot



- patent design
- Improved thermal dispersion efficiency with 20%
- patent design

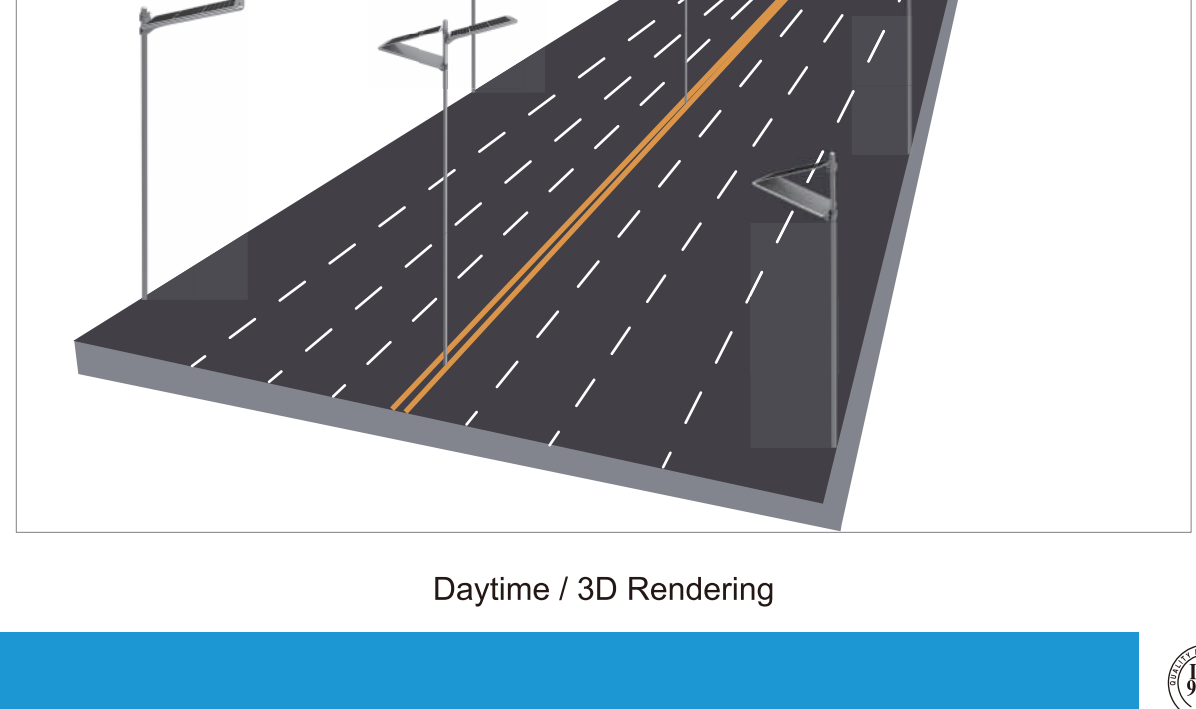
3D Explosive Photo



3D Photometric Simulation

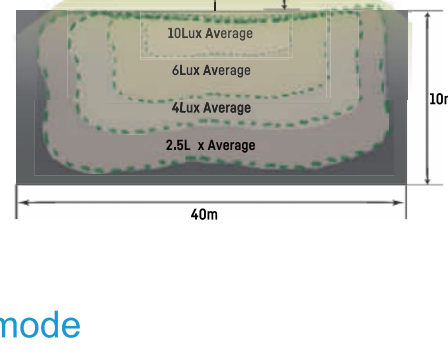
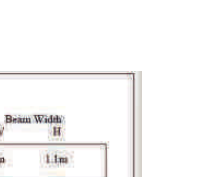


Night / False Color Rendering



Daytime / 3D Rendering

Luminous intensity distribution curves:



4m	10.33 LUX	3.3m	3.3m
5m	10.33 LUX	3.7m	3.7m
6m	10.33 LUX	4.6m	4.6m
10m	10.33 LUX	6.5m	5.5m
12m	12.50 LUX	7.2m	6.6m

View-Spread 33.8

Minor Spread 35.8