新智高照明
trismart lighting

Shenzhen Trismart Lighting Technology Co., Ltd. is a research and development, design, production and sales of private high-tech enterprises. Company's management and technical team has 20 years' experience in the development and design of industrial lightings, professional lightings and lighting engineering systems. Trismart Lighting is a cooperative supplier of European Union led street lamps, a network supplier of Royal Shell (shell) and a network supplier of large enterprises such as Sinopec, PetroChina, State Grid, Datang Electric Power and Huadian Group.

Trismart Lighting provides customers with the most reliable products as the basis of management and provides customers with intelligent and high-efficiency products to help customers reduce operating costs and management costs as a source of power for enterprise development, focusing on R & D, production and sales of smart, intelligent, high efficient, environmentally friendly led industrial lights, led high bay lights, led floodlights, explosionproof led floodlight, led street lights and solar led street lights, and wireless remote lighting control systems based on the latest Internet of things technology, video surveillance and safety management systems.

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super brightness

MPPT solar controller

power LFP battery

microwave sensor

angle adjustable

SZG554 all-in-two solar led street light

Applications:

- urban secondary roads
- county, township, town, village road
- economic development zone and high-tech park road
- industrial and mining plant road
- tourist attractions
- resort road
- park, parking roads
- villas and high-end residential roads

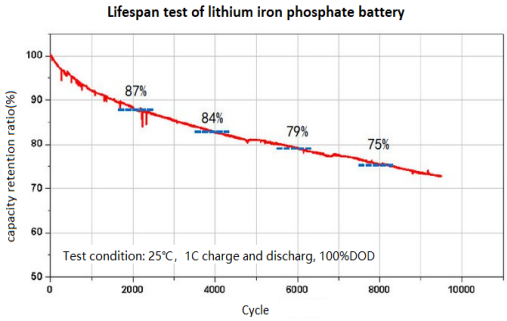
Description of performances:

❖ *Super brightness Philips led chip*

- led chip luminous efficiency：210 lm/W @80mA
- light efficiency of luminaire：≥160 lm/W
- average service life：100,000 hours
- The thermal resistance is only 6℃ and 55% lower
- The illuminance is 20%-25% higher
- no blue light hazard

❖ *Power lithium iron phosphate battery*

- used for electric car, electric bike, solar light, energy storage
- cycle life：≥3000 cycles for more than 8 years' use
- cell capacity：6000mAh
- Less than 3mΩ internal resistance can reduce internal energy loss and offer high current discharge.
- High temperature discharge efficiency is over 95%.
- Low temperature discharge efficiency is about 70%.
- free of cobalt and other heavy metals
- no fire, no explosion, absolutely safe and reliable

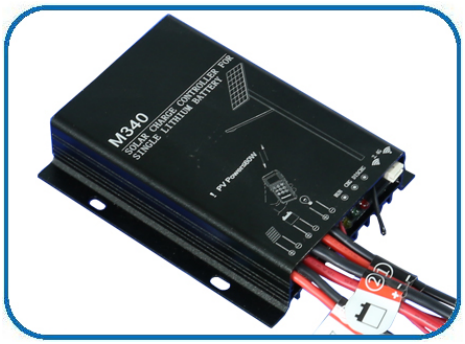


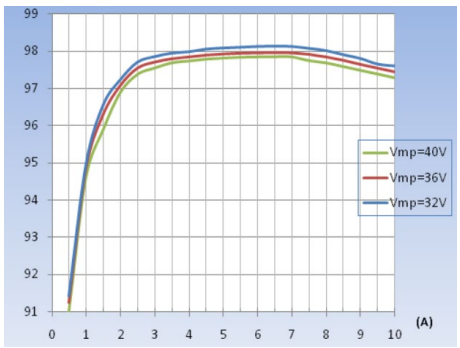
❖ High efficiency solar panel from Taiwan

- poly solar wafers imported from Taiwan
- solar conversion efficiency：≥20%
- wafer specification：156*156 mm
- lifespan：≥20 years

❖ MPPT intelligent solar controller

- Adopting MPPT technology to track the maximum power of solar panel
- MPPT efficiency：≥99.9%
- charge conversion efficiency：≥98.5%
- constant current drive efficiency：≥96%
- Adopting IPT(intelligent power technology) can adjust the optimal power according to the weather conditions of the next 7 days and the remaining energy of battery to ensure 365 days' lighting every day
- control mode: light control, time control, motion sensor control





❖ Adjustable angle of solar panel in the horizontal and vertical direction

adjustable bracket in horizontal direction for solar panel

adjustable bracket in vertical direction for solar panel

Components of product:

① Poly crystalline solar panel

③ Led modular with Philips led chips

② Microwave sensor（optional）

④ Built-in MPPT intelligent solar controller

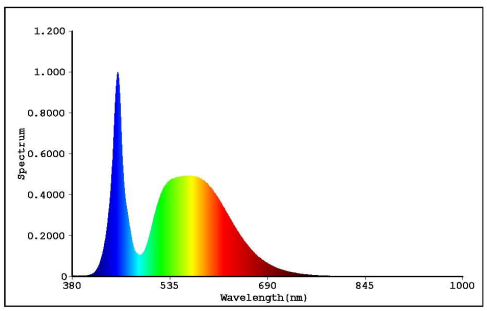
⑤ Built-in power lithium iron phosphate battery

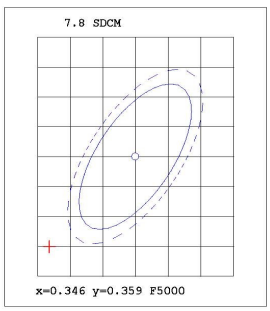
⑥ Angle adjustable of solar panel in horizontal direction

⑦ Angle adjustable of solar panel in vertical direction

Test report for led chip:

Spectrum Test Report





Color Parameters:

Chromaticity Coordinate(2Deg):x=0.3328 y=0.3439/u'=0.2060 v'=0.4791 duv=1.302e-003

Tc=5484K Dominant WL:Ld=552.1nm Purity=3.1%

Ratio:R=14.0% G=82.3% B=3.7% Peak WL:Lp=452.8nm HWL:18.5nm

Render Index:Ra=75.7

R1 =74.13	R2 =80.20	R3 =82.28	R4 =76.12	R5 =74.24
R6 =71.69	R7 =84.13	R8 =62.77	R9 =-13.42	R10=50.62
R11=72.60	R12=43.24	R13=75.20	R14=89.82	R15=70.27

TM30 Parameters: Rf = 73.3, Rg:94.2

Photo Parameters:

Flux = 93.21 lm Eff. : 204.40 lm/W Fe = 273.6 mW

Electrical parameters:

VF = 5.708 V IF = 79.89 mA P = 456.0 mW Ch1

LEVEL:**[OUT] WHITE:ANSI_5700K

Status: T=140.00ms Ip=33646 (51%) [HAAS1200_V1_USB] V2.00.288

Technical parameters:

Parameter items	45W	60W	90W	120W
Brand of led chip	Philips	Philips	Philips	Philips
Luminous efficiency for led（lm/W）	210 lm/W	210 lm/W	210 lm/W	210 lm/W
luminous flux of luminaire（lm）	2500±5% lm	3300±5% lm	5000±5% lm	6400±5% lm
Beam angle	140°*70°	140°*70°	140°*70°	140°*70°
Correlated color temperature（K）	3000-6500K	3000-6500K	3000-6500K	3000-6500K
Color rendering index（Ra）	75Ra	75Ra	75Ra	75Ra
LED lifespan（h）	100000 hrs	100000 hrs	100000 hrs	100000 hrs
Type of battery	LiFePO4 battery	LiFePO4 battery	LiFePO4 battery	LiFePO4 battery
Capacity of battery	115Wh	150Wh	230Wh	280Wh
Lifespan of battery	≥2500 cycle	≥2500 cycle	≥2500 cycle	≥2500 cycle
Charging time（h）	6-7 hrs	6-7 hrs	6-7 hrs	6-7 hrs
Continuous rainy days	3 days	3 days	3 days	3 days
Induction dimming	custom-made	custom-made	custom-made	custom-made
Power of poly solar panel	30Wp	40Wp	60Wp	70Wp
Tilt angle of solar panel	adjustable	Adjustable	Adjustable	adjustable
Shell material	ADC12 die-cast aluminum	ADC12 die-cast aluminum	ADC12 die-cast aluminum	ADC12 die-cast aluminum
Lens material	PC	PC	PC	PC
Discharging temperature	-20～+60℃	-20～+60℃	-20～+60℃	-20～+60℃
Charging temperature	-5～+55℃	-5～+55℃	-5～+55℃	-5～+55℃
IP protection	IP65	IP65	IP65	IP65
Dimension	lamp: 480*170*245 mm /solar pane: 635*350*17mm	lamp: 650*355*270 mm /solar pane: 520*535*25 mm	lamp: 650*355*270 mm /solar panel: 610*670*30 mm	lamp: 650*355*270 mm /solar panel: 610*670*30 mm
Weight	lamp: 6.0 Kg /solar panel: 3.2 Kg	lamp: 7.8 Kg /solar panel: 4.5 Kg	lamp: 8.0 Kg /solar panel: 5.8 Kg	lamp: 8.0 Kg /solar panel: 5.8 Kg
Diameter of mounting pipe	Φ76 mm	Φ76 mm	Φ76 mm	Φ76 mm
Recommended mounting height	4-5 m	5-6 m	6-7 m	7-8 m