

SZG555 all-in-one solar led garden light



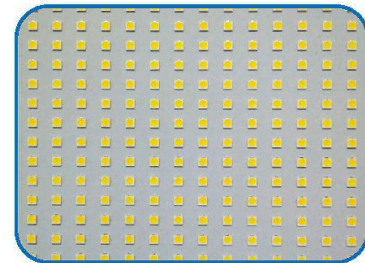
Applications:

- garden and courtyard
- public park
- commercial plaza
- recreation square
- tourist attractions & resort center
- villas and high-end residential

Description of performances:

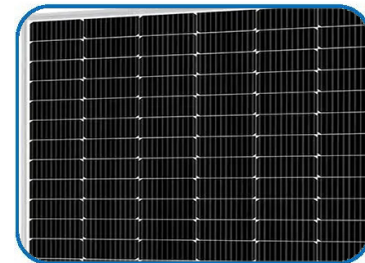
❖ Super brightness Philips led chip

- luminous efficiency for led chip: 240 lm/W @40mA
- light efficacy for luminaire: 200 lm/W
- The thermal resistance is only 3°C and 75% lower
- The illuminance is 50% higher
- average service life: ≥100,000 hours



❖ High efficiency mono solar panel

- high efficiency mono solar wafers
- solar conversion efficiency: 23%~24%
- wafer specification: 182*182 mm
- lifespan: ≥25 years
- Average attenuation speed: 0.6%
- 25 years maximum output power attenuation: 15%



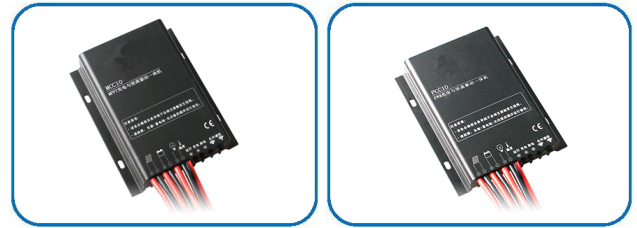
❖ Low temperature powerful lithium iron phosphate battery

- Adopt low temperature powerful lithium iron phosphate battery which can discharge at -25°C reliably.
- 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



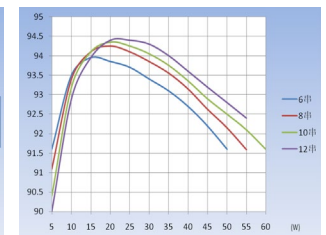
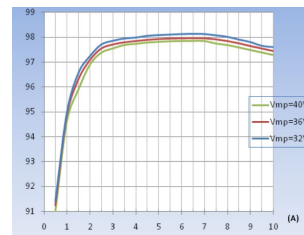
❖ Intelligent solar controller

- adopting MPPT technology to track the maximum power of solar panel
- MPPT efficiency: $\geq 99.9\%$
- charge conversion efficiency: $\geq 98.5\%$ (MPPT)
 $\geq 94.5\%$ (PWM)
- constant current drive efficiency: $\geq 96\%$ (MPPT)
 $\geq 95\%$ (PWM)
- IPT(intelligent power technology) can adjust the optimal power according to the weather conditions of the next 7 days and the remaining energy of the battery to ensure 365 days' lighting every day
- control mode: light control, time control, induction control
- 2.4G remoter optional



MPPT controller

PWM controller



Technical parameters:

Parameter items	40W
Brand of led chip	Philips
Luminous efficiency for led chip	240 lm/W
Total luminous flux	9600 \pm 5% lm
Luminous efficacy for luminaire	200 lm/W
Beam angle	120°
Correlated color temperature	3000-6500K
Color rendering index	≥ 75 Ra
Type of battery	lithium iron phosphate battery
Capacity of battery	260Wh
Lifespan of battery	≥ 3000 cycle
Charging time	6-7 hrs
Continuous rainy days	3 days
Induction dimming	microwave sensor
Power of mono solar panel	48Wp
Shell material	extruded aluminum alloy
Discharging temperature	-25~+60°C
Charging temperature	-10~+55°C
IP protection	IP65
Dimensions	720*720*210 mm
Weight	8.5 Kg
Diameter of mounting pipe	$\Phi 60$ mm
Recommended mounting height	7-8 m

Product details:



Test report of luminous efficiency for led chip:

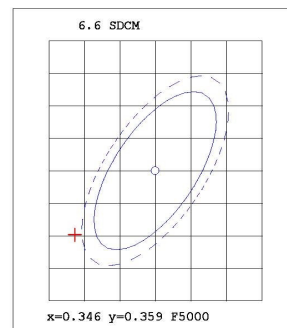
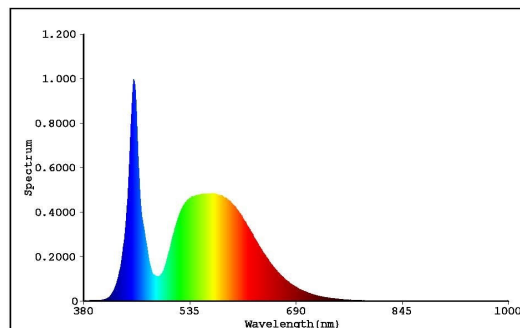
EVERFINE 远方

Test report

EVERFINE LEDspec Test Report

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Spectrum Test Report



Color Parameters:

Chromaticity Coordinate(2Deg): $x=0.3347$ $y=0.3492/u'=0.2053$ $v'=0.4819$ $duv=3.134e-003$

$T_c=5410K$ Dominant WL:Ld=558.0nm Purity=5.2%

Ratio:R=14.0% G=82.2% B=3.8% Peak WL:Lp=453.1nm HWL:17.2nm

Render Index:Ra=75.9

R1 =73.76 R2 =81.05 R3 =84.21 R4 =75.46 R5 =73.73

R6 =72.76 R7 =84.81 R8 =61.67 R9 =-15.45 R10=52.76

R11=71.59 R12=42.32 R13=75.35 R14=90.99 R15=69.42

TM30 Parameters: Rf = 74.3, Rg:93.3

Photo Parameters:

Flux = 50.96 lm Eff. : 241.29 lm/W Fe = 153.5 mW

Electrical parameters:

VF = 5.294 V IF = 39.90 mA P = 211.2 mW Ch1

LEVEL:**[OUT] WHITE:ANSI_5700K

Status: T=201.00ms Ip=26653 (41%) [HAAS1200_V1_USB] V2.00.288