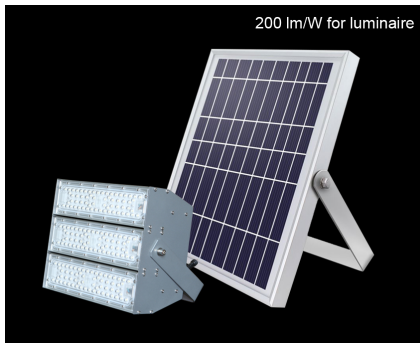


SNF208S two-in-one solar led floodlight



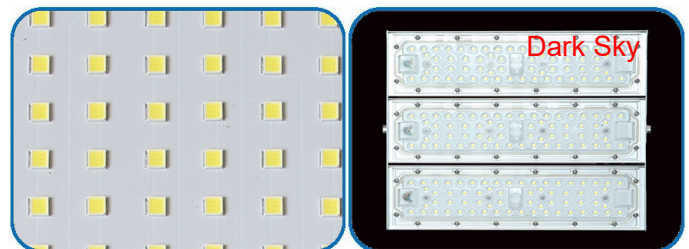
Applications:

- Outdoor equipment areas, loading and unloading areas, office and living squares, remote production operation areas for industrial and mining enterprises, etc
- Commercial centers, shopping centers, leisure and entertainment squares, etc
- Outdoor small parking lots
- Outdoor small sports field
- Outdoor construction workplace

Description of performances:

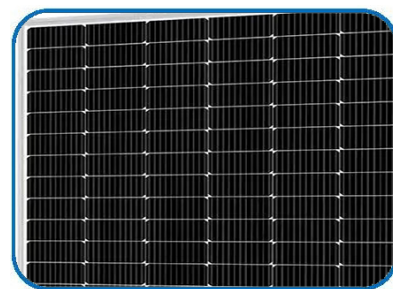
❖ Super brightness Philips led chip

- led chip luminous efficiency: 240 lm/W @40mA
- light efficiency of 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
- **Dark sky design**



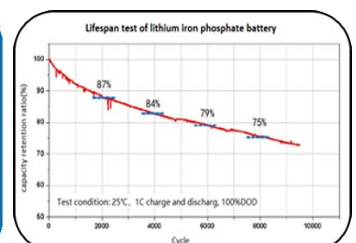
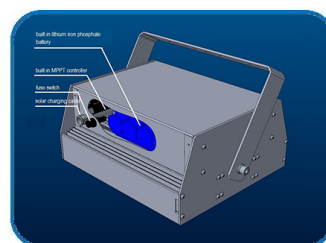
❖ High efficiency mono solar panel

- 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
- 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
- **battery built in the battery box and easy to maintain**
- **Quick installation, simply connect the solar panel charging cable to the battery box.**



super brightness



MPPT intelligent solar controller



microwave sensor



Li-battery management system



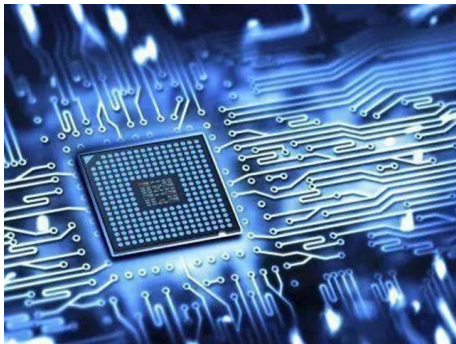
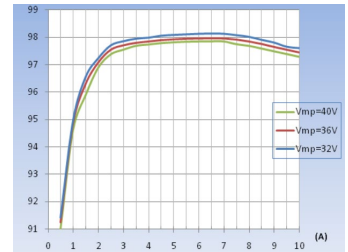
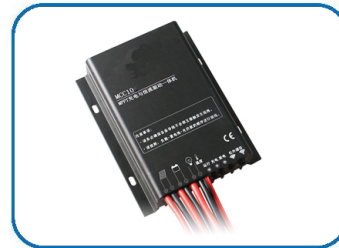
2.4G remote operation



Li-battery monitor system

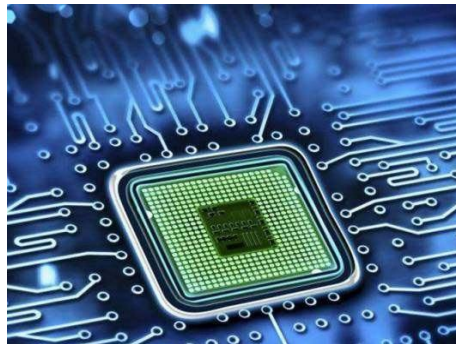
❖ Intelligent solar controller

- adopting MPPT technology to track the maximum power of solar panel
- MPPT efficiency: $\geq 99.9\%$
- charge conversion efficiency: $\geq 98.5\%$ (MPPT)
- constant current drive efficiency: $\geq 96\%$ (MPPT)
- 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
- **Solar controller is built in the battery box.**



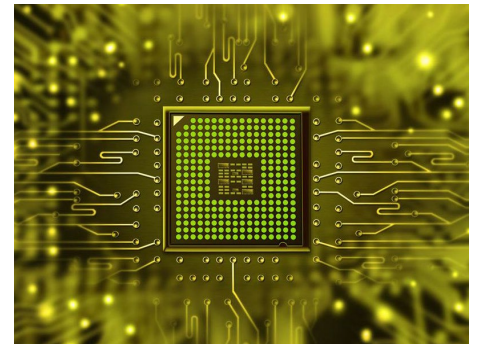
Intelligent power technology

According to the weather conditions of the next 7 days and the remaining energy of the battery, the power of the light can be adjusted to the optimal value through automatic calculation and scientific evaluation under the premise of ensuring the illumination to meet lighting for 365 days and extend cycle life of battery.



Single Monitoring and balanced charging Technology :

Through monitoring the voltage and current of the single cell in real time and optimizing the calculation, solar controller outputs the optimal charging voltage and current to reach the balanced charging for each cell which will prolong lifespan of battery.

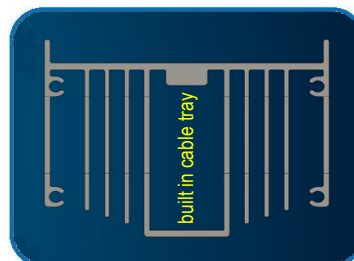


Automatic alarm technology:

Collecting the output voltage and current of solar panel, the voltage and current of battery and led modular in real time by intelligent chip, the working state of each part is detected and judged, and the fault alarm occurs automatically. Through different indicator lights, it is convenient for maintenance personnel to judge the problem intuitively and quickly.

❖ 60603 extruded aluminum alloy shell

- The heat dissipation body adopts high thermal conductivity extruded aluminum alloy, with a large surface area and fast radiation heat dissipation. At the same time, the principle of convective heat dissipation is applied inside the heat dissipation body and between modules allowing heat to be carried away by air convection.
- The connecting cable between modules is built into the heat dissipation inner body, which is resistant to oil pollution and aging, greatly extending its service life.



Product overview:



Technical parameters:

Model & power	SNF208S-45W	SNF208S-60W	SNF208S-75W
Brand of led chip	Philips	Philips	Philips
Luminous efficiency for led chip	240 lm/W	240 lm/W	240 lm/W
Total luminous flux	10800±5% lm	14400±5% lm	18000±5% lm
Light efficacy for luminaire	200 lm/W	200 lm/W	200 lm/W
Beam angle	60°/90°/120°/150°*80°	60°/90°/120°/150°*80°	60°/90°/120°/150°*80°
Correlated color temperature	3000-6500K	3000-6500K	3000-6500K
Color rendering index	≥75Ra	≥75Ra	≥75Ra
Led lifespan	100000 hrs	100000 hrs	100000 hrs
Type of battery	LFP battery	LFP battery	LFP battery
Capacity of battery	310Wh	400Wh	480Wh
Lifespan of battery	≥3000 cycle	≥3000 cycle	≥3000 cycle
Charging time (h)	6-7 hrs	6-7 hrs	6-7 hrs
Mono solar panel	40W	60W	70W
Dark sky requirement	yes	yes	yes
Material of shell	6063 aluminum alloy	6063 aluminum alloy	6063 aluminum alloy
Lighting time per day	10 hrs	10 hrs	10 hrs
Continuous rainy day	2-3 days	2-3 days	2-3 days
Discharging temperature	-25~+55℃	-25~+55℃	-25~+55℃
Charging temperature	-10~+55℃	-10~+55℃	-10~+55℃
IP protection	IP66	IP66	IP66
Dimension	266*298*128 mm	266*298*128 mm	266*298*128 mm
Weight	7.0 Kg	7.6 Kg	8.0 Kg
Diameter of mounting pipe	U-bracket	U-bracket	U-bracket
Recommended mounting height	5-6 m	6-7 m	7-8 m

Note: Selecting the power of lamp refers to the recommended installation height in the table.

Test report of luminous efficiency for led chip:

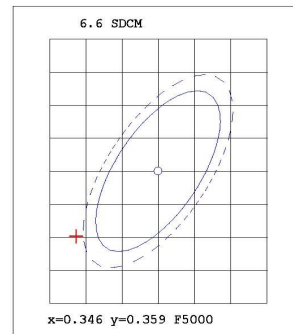
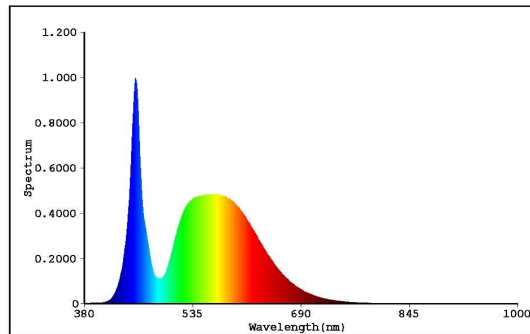
EVERFINE 远方

Test report

EVERFINE LEDspec Test Report

4 Of 4

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

