



*Let's Solar!*

**HAOTECH NEW ENERGY**



[www.hfsolar.net](http://www.hfsolar.net)

- **What is Solar photoVoltage energy**

*There is no energy source more environmentally friendly than the sun. Clean & green solar power is a renewable, sustainable & non-polluting source of energy & solar PV (photovoltaic) panels are the most efficient way of capturing this energy.*

*PV is now widely accepted as one of the best gilt edged investments to provide secure, long term, tax free earnings. But that's not all, it is the very best way to inflation proof your future electricity costs whilst reducing your carbon footprint.*

*Even the smallest Solar PV Energy Home System will save over 40 tons of Co2 during its life time.*





## • Who is LOUISA ?

To whom may concern,

*Hi friends there,*

*Here is Louisa.Tang .You could call me Tang or Louisa.*



*i am a Senior professional manager and the China Representative for HongKong Haotech Group Co.,Ltd.Meanwhile i am the owner for Guangzhou Haotech New Energy technology Co.,Ltd.*

*But personally,i prefer the title of "Chief Solar PV Recommend Officer", which is much closer to my users and products.*

*In the year of 2009,solarPV comes to my sight,quite by chance, as at that time i just got my Bachelor Degree and i need to find my first job.But the longer i am in it ,the more i love and engage it.*

*Once i got a dream,in the dreamland i am the angel to express brightness by the Sun.Till i see the smile with happiness and peace on people's face when they use my solar products,i am sure that i find my position in the world which is to help people with my solar pv products.*

*To be trustable.To be kindness.To be professional.*

*Here is Louisa.Tang.*

*LET'S SOLAR!*

## • What does **LOUISA** have?



### **Solar Module**



ISO 9001:2008 & ISO 14001  
management systems



IEC 61215 & IEC 61730  
standard quality



0-5 W positive power sorting



Stable performance under  
weak light conditions



Wind load up to  
3800 Pa / Snow load up to  
5400 Pa



Salt mist and ammonia corrosion  
tests passed



25-year power warranty /  
10-year product warranty





Super-efficiency half-cell Modules Assembled with the advanced half-cell technology offer the advantages of higher power output, reduced series resistance loss, and lower risk of hot spot. In order to meet the Clients' requirements of best quality and efficiency.

## 120 cells

half-cut cell modules



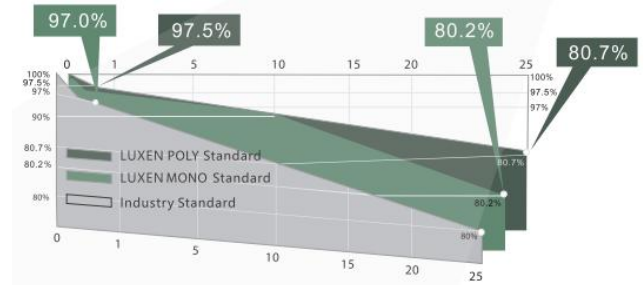
Super-efficiency half-cell Modules Assembled with the advanced half-cell technology offer the advantages of higher power output, reduced series resistance loss, and lower risk of hot spot. In order to meet the Clients' requirements of best quality and efficiency.

## 144 cells

Bigger SE-PERC Cell



## LINEAR PERFORMANCE WARRANTY



Superhigh efficiency modules adopt advanced SE-PREC technology (Passivated Emitter Rear Contact technology). Its higher conversion efficiency and better anti-PID performance bring installers the maximize power yield per unit area. They can meet your very strict requirement on quality and efficiency of modules.

## 60 cells

Bigger SE-PERC Cell



Superhigh efficiency modules adopt advanced SE-PREC technology (Passivated Emitter Rear Contact technology). Its higher conversion efficiency and better anti-PID performance bring installers the maximize power yield per unit area. They can meet your very strict requirement on quality and efficiency of modules.

## 72 cells

Bigger SE-PERC Cell



With varied power rating are suitable for all types of systems, from small-scale private roof systems to large-scale solar power farms. Have CE statement of approval and the IEC 61215 & 61730 certifications.

## 60 cells

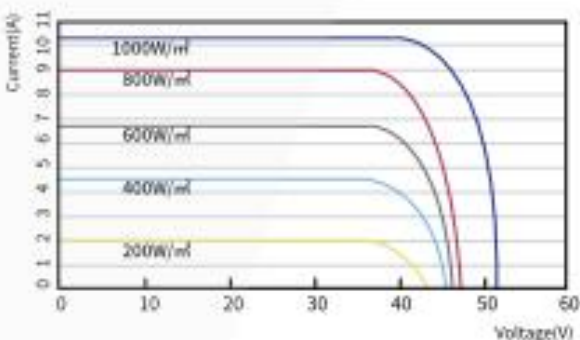


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## 72 cells



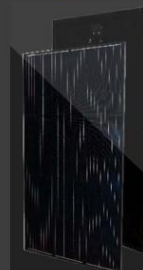
## HTSU-410M/I-V



With SE-PERC cell technology allows significant increase of power output per module. High module efficiency reduces BOS cost and transportation cost. More energy output per means more economic gains per m² system. Uniform look is ideal for projects of building integration requisites.

## 60 cells

ALL BLACK High Efficiency Module



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## 72 cells

ALL BLACK High Efficiency Module



# Solar LED street Light

## TREND OF FUTURE LIGHTING

Save energy by 70%, Continuous Optimization of Products, Ensures Higher Luminous Efficiency.

Partner with us, for better lighting business.

[Learn more](#)



## Applications

- Street, town road;
- Road, country road, highway, street;
- Park, Garden Lighting;
- Yard, Square Lighting

## Advantages

- AIO and separated mode
- LiFeP04 battery;
- 5 years whole system guarantee;
- Customization;
- long life time with minimum price

## Key Features

- **Intelligent control**, automatically turn on or off.
- **10-12 hours lighting** per day, **2-3 continuous** rainy or cloudy days backup.
- **Safe and reliable**, strong and stable system performance.
- Energy saving, **saving 50%** than the traditional lights at the same brightness.
- **Inner high efficiency (95%) heat protection** system, with the latest high efficiency constant current driver, making the product can work under unstable voltage.
- Long life span, **more than 50000 hours**, Our product can using **from -40 degree to 50 degree**.
- **Low installation cost**.





# Solar Flood Light

## Features

- Solar Power & chargeable
- Epistar led chip  $> 100\text{lm/w}$
- LiFePo4 lithium battery  $> 8\text{years}$  lifespan
- Friendly cost
- IP65

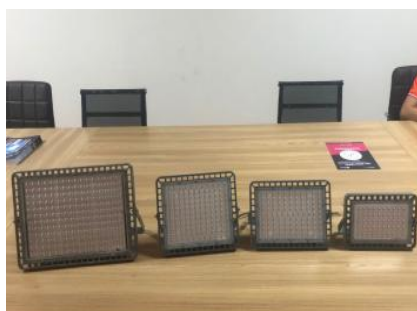


## Benefits

- Solar energy with electricity free
- Green Energy forever clean
- Package in one box
- Zero maintenance

## Applications

- Plaza lighting
- Outdoor lighting
- High lumen requirement locations
- other industrial and commercial applications



# LED Solar LAWN/BOLLARD/ PATHWAY LIGHTS

## Key Features

- High Brightness, max lamp lumen up to 300+ LM
- Easy customer remoter for color temperature and timing settings for each light
  - Warm 3000K or cool 6000K color temperatures for optional could be set by customer remoter
  - In-built timer for max 5 sections timing
  - Market leading monocrystalline solar panels and charging/driving efficiency



## MAIN APPLICATIONS

- Patchway, walkway, garden and lawn
- Golf courses and sandy beach
- Resort, villa and house garden
- Park and public spaces
- Exterior retail, commercial, hotel and leisure environments.

- 25 years lifespan, peace of mind and unrivaled quality
  - 8+ years lifespan LiFePO4 batteries with Micro-BMS
  - Can be installed to areas with no electrical cabling or the grid power doesn't cover
  - Built in photocell activates light at dusk and stays on until dawn
  - Autonomy for 7+ continual rainy/cloudydays







# Solar Insect Catching/Killing Lamp

Using the latest solar power technologies, our powerful LED Solar insect Catching/Killing Lamp offers exceptional killing effects to over 2000 different pests with substantial energy savings, reduced maintenance costs and carbon emissions, free of pesticide pollution.

Ideal environment friendly way for garden, farm, orchard, forest etc. pest killing. Once installed the lamp charge up by solar during the day and light up automatically at night for 6hrs or your required hours. It attracts fly pests with and kills them by high-voltage fence around the light source. All killed pests will drop into the collect bag to avoid pollution to the environment.

## Key Features

**5500Vac** high voltage for effective killing

**<10mA** low current for safety of human being

**2000+ kinds** of pests killed with 320~680Nm wavelength

**10 Sections** in-built timer according to pests routines

**120M** effective killing radius, cover 11 acres

**MPPT** charging inbuilt, rain proof automatic cut-off

**100%** powered by solar, no cabling for off-grid use

**5 days** continual rainy/cloudy autonomy

**8+ years** battery life, 25 years product lifespan

**3 Years** warranty for solar power system

Stainless steel + Aluminum + UV ABS for anti-corrosion

No pollution of pesticide, noise and hazard light

Easy to install & maintenance free



## APPLICATIONS









Farm、Orchard、Forest、Fish pond、  
Residential community、Public spaces、  
Exterior retail, commercial, hotel and  
leisure spaces





# Solar Powered IP/CCTV Camera

## KEY FEATURES & ADVANTAGES

 <b>3MP HD</b> H.264 Dual Stream	 <b>4G Network</b> Plug and Play
 <b>IP66</b> Waterproof	 <b>Remote</b> Voice Chatting
 <b>Full Color</b>	 <b>4 Antennas</b> Enhance the transfer efficiency
 <b>Remote Alarm</b> once movements detected	 <b>Micro SD</b> For video recording

### Model No. SC-4G-BALL



### Model No. SC-4G-GUN



## APPLICATION



- ✓ **25 Years** Solar Panel Life
- ✓ **3,000+ Cycles** life LiFePO4 batteries with inbuilt Micro-BMS technologies
- ✓ **365days\*24hrs** standby for 100% safety
- ✓ **360° Surveillance & Zooming** by online Remote Control





### Features and function :

#### Features and function :

- \*Pure sine wave output, with UPS function and AC charger function.
- \*Specifically designed for long time backup, the charging current can be high up to 15A-25A, can charge the large capacity battery in short time.
- \*Superior performance from CPU control technology.
- \*Module design: SMT Main PCB + Control PCB, easy for maintenance.
- \* Mains frequency design + isolated transformer inside, strong ability of resistance, so that can meet the need of different power supply. It can change frequency immediately and it is able to drive all kinds of Loads, especially for the electric appliances with compressor like fridge, air-conditioner, etc.
- \* Wide input voltage range: 72V137V(110VACV)145-275V(220VAC); 300W-3500W with three step AVR (two step -up, one step -down)
- \* Full protection: Overload/High temperature/High Voltage/Low Voltage/ Battery Low Voltage.
- \*Can choose working mode by yourself
- \*Battery reverse connection protection and high-low voltage protection(optional)
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- \*Battery reverse connection protection and high-low voltage protection(optional)



**NEW PACKAGE DESIGN**

### Application of solar energy system :

This is a new type of PV system, designed to resolve the problem of power shortage for the families, companies and other places. It is mainly contain case, inverter, solar controller, breaker, fuse, input/output terminal. It can use for light, radio, DVD, TV set, fans, freezer, computers, small hand-drill, and communication equipment. The AC system is widely used in the field of family houses, schools, hospitals, offices, etc.







# Solar Kit



## Features

- Long service life
- High Efficiency Solar Cells
- Advanced Cell Encapsulation
- Lithium Battery for option
- Plastic case with small size for easy taking

## Applications

- Small Home Power Systems
- Commercial Small Power Supply
- Power Supply for Traffic, Security, Gas Industry
- 12v and 24v Battery Charging System
- Fishing boat lighting, Mobile charging with USB
- other industrial and commercial applications

## Benefits

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# Solar Bench

Model Mini



前图(Alt + A)

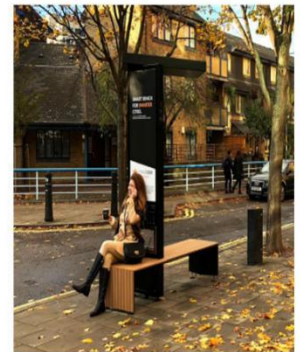
Model +



Model A



Model C

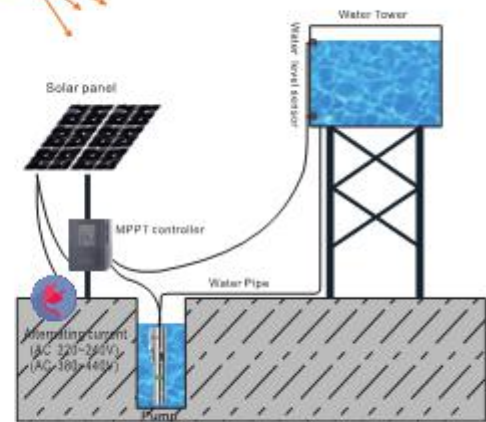
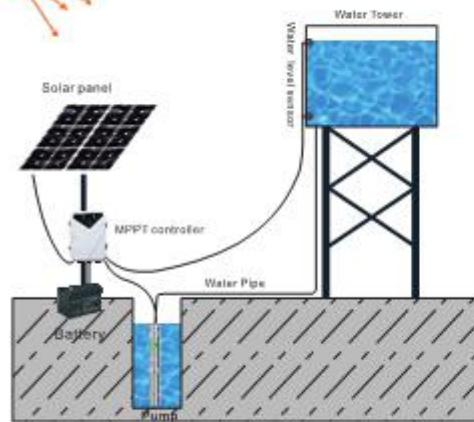


Solar Plant





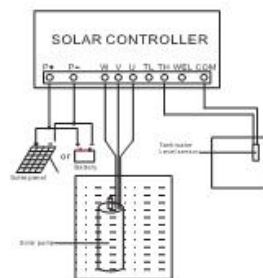
# Solar Pump



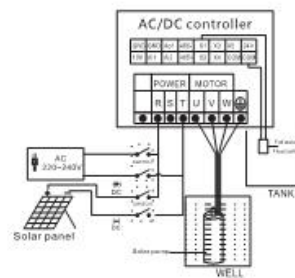
## SYSTEM INSTALLATION DRAWING



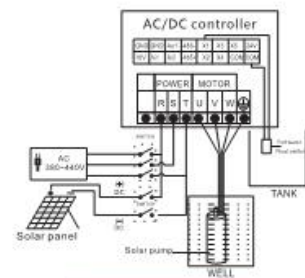
Screw NSK Bearing Stainless steel oil cylinder



DC:12-110V



AC/DC:220/300V



AC/DC:380/550V

Free spare parts

## ADVANTAGE OF DC SOLAR PUMP

1. Permanent magnet DC brushless synchronous motor: The efficiency is improved by 15%–20%;  
Save energy; Reduce the consumption of solar panels.
2. 304 S/S pump shaft.
3. Brass or stainless steel outlet/connector/ oil cylinder.
4. Japanese NSK bearing: prolong the working life.
5. Double bearing motor base: can work under more axial pressure
6. Alloy mechanical seal: Longer working life and high reliability.
7. Motor coil is made by automatic winding machine with centralized winding technology, motor efficiency is much improved.
8. Intelligent water shortage protection: The pump stops working automatically when there is no water in the well,  
and automatically start working 30 minutes later.
9. Controller:
  - (1) Waterproof grade: IP65
  - (2) Ambient temperature: -15°C~60°C
  - (3) MPPT function, the solar power utilization rate is higher.
  - (4) Automatic charging function: Guarantee the pump normally working, meanwhile charge the battery;  
And when there is no sunshine, the battery can make the pump continuously working.
  - (5) LED displays the power, voltage, current, speed etc working condition.
  - (6) Frequency conversion function: It can automatically run with frequency conversion according to the solar power,  
and user also can change the speed of pump manually.
  - (7) Automatically start and stop working.
  - (8) Water proof and leak-proof: Double seal effect.
  - (9) Soft start: No impulse current, protect the pump motor.
  - (10) High voltage/Low voltage/Over-current/High temperature protection
10. 2 years warranty.



# Petit Solar Light



*Looking forward to our cooperation...*



**LOUISA**  
*Let's Solar!*

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