



Let's Solar!

HAOTECH NEW ENERGY

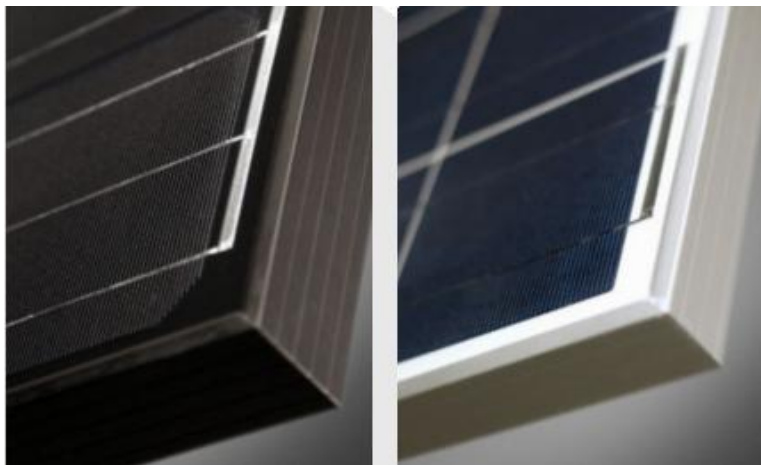


www.hfsolar.net

• What 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



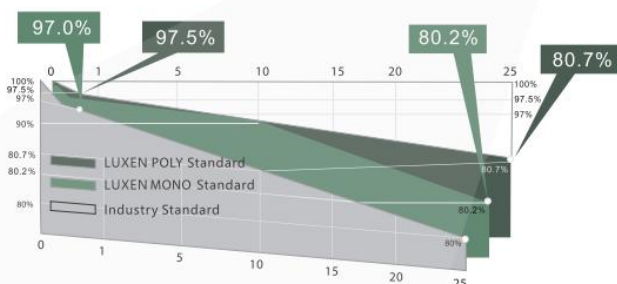
Super-efficiency half-cell Modules Assembled with the advanced half-cell technology offer the advantages of higher power output, reduced series resistance loss, and lower risk of hot spot. In order to meet the Clients' requirements of best quality and efficiency.

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

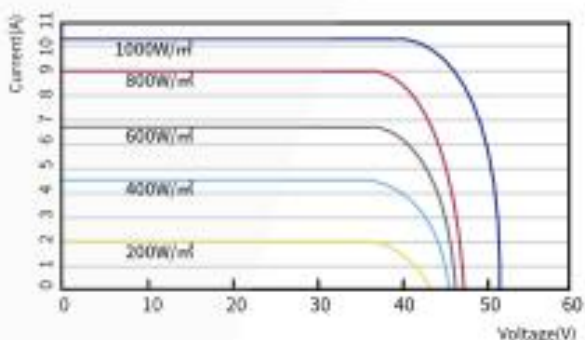


With varied power rating are suitable for all types of systems, from small-scale private roof systems to large-scale solar power farms. Have CE statement of approval and the IEC 61215 & 61730 certifications.

72 cells



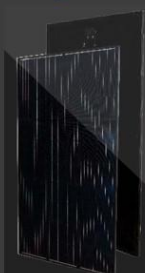
HTSU-410M/I-V



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



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.

72 cells

ALL BLACK High Efficiency Module





Foldable solar charging Bag

Key Features



Portable and Folding For Easy Transport

This solar charger is made for adventure, it can be folded into a briefcase for easy transport. You can enjoy solar energy by placing the panel on the outside of your bag, absorbing solar energy while hiking or camping

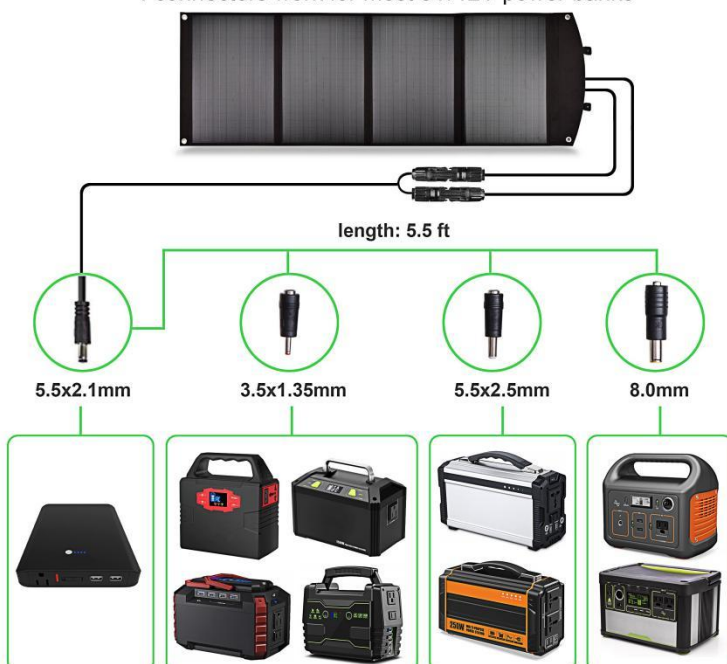
Water-resistant and Durable
100w foldable solar panel is made from durable oxford cloth and IPX4 water resistant to endure all weather conditions, ideal for outdoor activities such as camping, climbing, hiking, picnic. Please NOTE: The junction box is not water resistant and please keep it dry

Packaged Included

- 1*Sunpower 100W foldable solar panel
- 10*dc connectors
- 1*MC4 cable
- 1*user manual

HIGH COMPATIBILITY

4 connectors work for most 5V/12V power banks



Lightweight & Compact



Constructed with a **durable and waterproof outer-layer** to protect the solar charger



Smart high-speed charging for usb devices. The orange one is quick charge 3.0 port.



Portable solar charging bag, power from 3W to 100W

No lithium battery-Higher Security!

Solar powered-Zero Carbon!

No electricity worries-Power Pompanion!

ROCKPALS Solar Panel



23.5%



15%

Other Solar Panel

High Efficiency
23.5%

PET

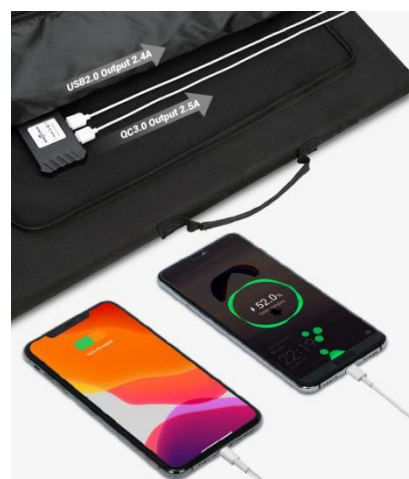
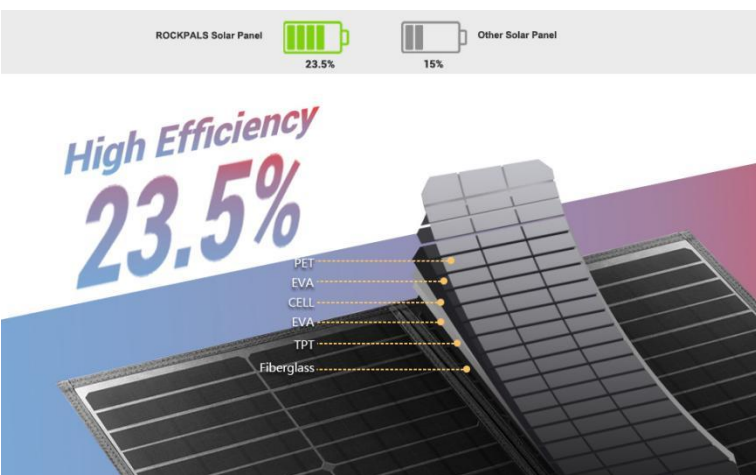
EVA

CELL

EVA

TPT

Fiberglass



**The Most Power
in the Least Time**

The QC 3.0 port charges compatible phones **4 times** faster than conventional charging options

QC 3.0

5Gbps

20%

480Mbps

20%

USB 2.0

480Mbps

20%



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

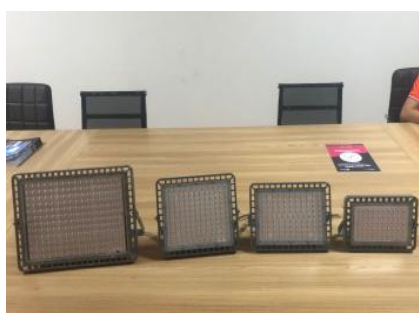


Benefits

- 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/cloudy days



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

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

Model No. SC-4G-BALL



Model No. SC-4G-GUN



APPLICATION



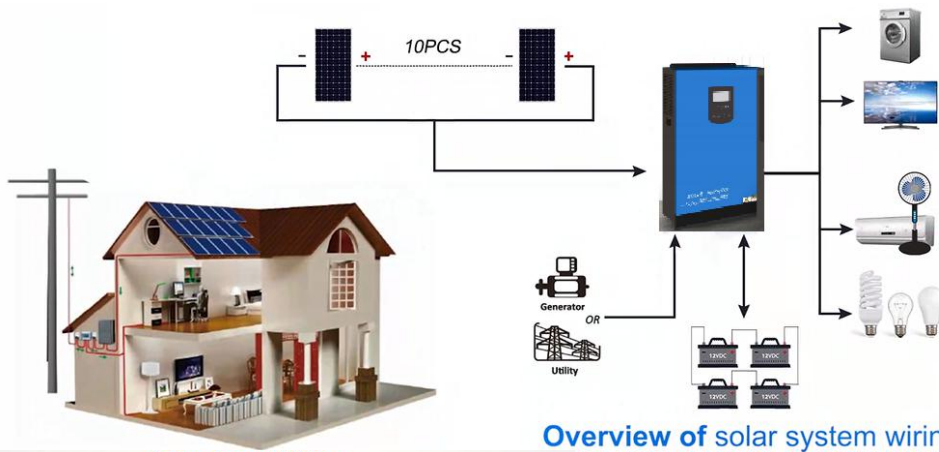
- ✓ **25 Years** Solar Panel Life
- ✓ **3,000+ Cycles** life LiFePO4 batteries with inbuilt Micro-BMS technologies
- ✓ **365days*24hrs** standby for 100% safety
- ✓ **360° Surveillance & Zooming** by online Remote Control



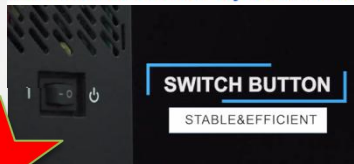
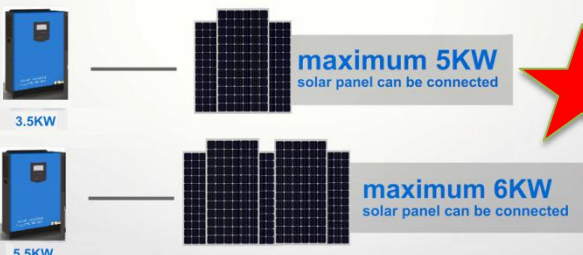


Hybrid Solar Inverter

HT-HSI-3kw HT-HSI-5kw

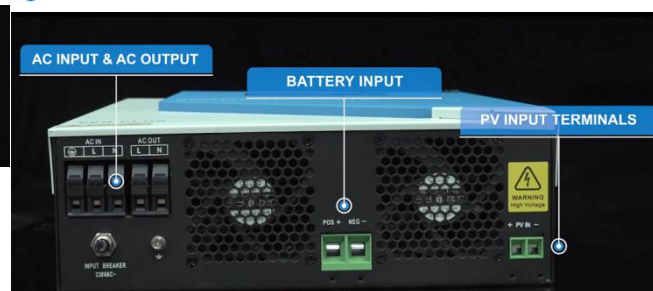
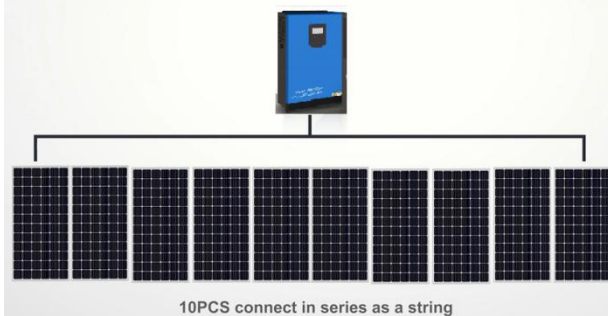


Solar Panel Wiring
3.5KW & 5.5KW solar system



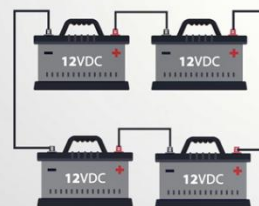
nty

Solar Panel Wiring
3.5KW & 5.5KW solar system

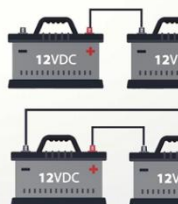


Battery Wiring

3.5KW Solar System:
2pcs connect in series as a string,
2 strings in parallel



5.5KW Solar System:
4pcs connect in series



Rated/Peak Power	3200W/640	3500W/700	5000W/100	5500W/110
DC Voltage Level	24V DC	24V DC	48V DC	48V DC
Cold start voltage	23V DC	23V DC	46V DC	46V DC
Cut-off voltage	21V DC	21V DC	42V DC	42V DC
Shut-down voltage	33V DC	33V DC	63V DC	63V DC
Float charging voltage	27V DC	27V DC	54V DC	54V DC
Bulk charging voltage	28.2V DC	28.2V DC	56.4V DC	56.4V
MPP Voltage range	120V-450VDC			
Nominal/Max PW	240V DC/500V DC			
Max.Charging PVA	80A	100A	80A	100A
Max.PV Power Wp	4000Wp	6000Wp	4000Wp	6000Wp
AC input Parameter	170-280V(90-280V wide range)50Hz-60Hz Auto			
Inverter Output	220V-240V Peak			
Self consumption	<35W			
Overload protection	110%-150% load stay for/0s; >150%			
Temperature Range	-10°C -50°C			
Temperature Storage	-15°C -60°C			
Humidity	5%-95% Non-condensing			
Dimension	100x300x440 mm			
Packing Size	57.5x37.7x20.7cm			
G.W./N.W.	10.5kg/9.5k	11.0kg/10.0	11.5kg/10.5	12.5kg/11.5

Feature

- Selectable input voltage range for home appliances and personal computers
- Selectable charging current based on applications
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection S
- Smart battery charger design for optimized battery performance
- Cold start function
- Parallel operation with up to 6 units only available for 4KVA/5KVA
- Optional remote panel available

PURE SINE WAVE OUTPUT
CAN BE CONVERTED TO A VARIETY
OF DIFFERENT POWER LOAD

Solar Generator



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)
- *Can choose working mode by yourself
- *Battery reverse connection protection and high-low voltage protection(optional)



NEW 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,



Solar Bench

Model Mini



縮図(Alt + A)



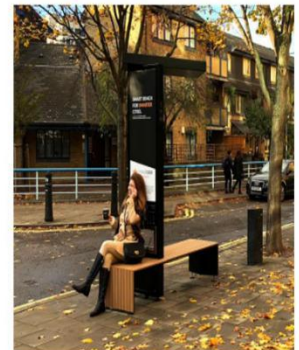
Model +



Model A



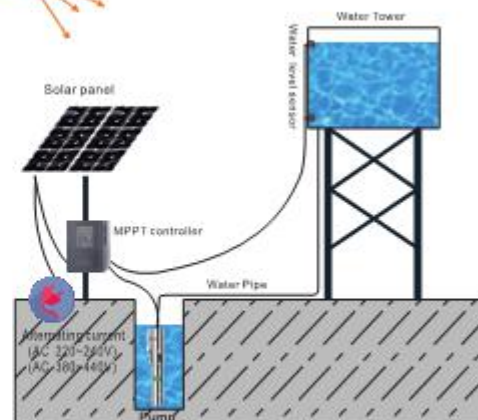
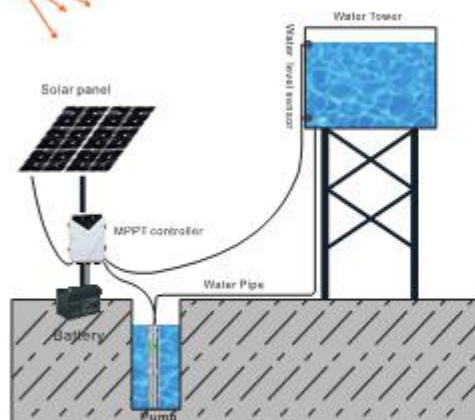
Model C



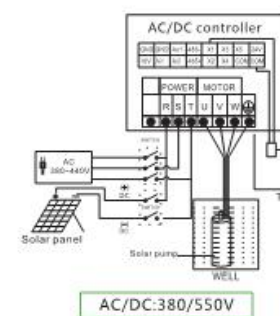
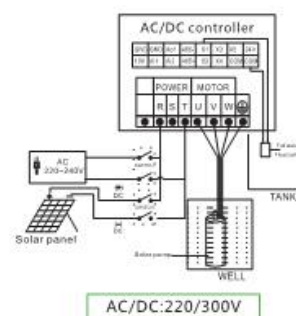
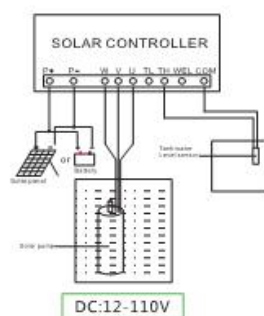
Solar Plant



Solar Pump



SYSTEM INSTALLATION DRAWING



Screw

NSK Bearing

Stainless steel oil cylinder

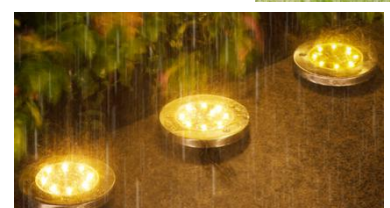
Free spare parts

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℃~60℃
 - (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!

HAOTECH NEW ENERGY

Louisa. Tang +8613819019214
Chief Solar PV Recommend Officer
Website: <http://www.hfsolar.net>
Email: 88louisa@163.com
Add: A1608-1609, ZhongTai Plaza,
Tianhe district, Canton, China.

To Be An Extreme New Energy products and service Provider.

ACTION

OPEN

INTEGRITY

INNOVATION