



NATURE ENERGY



LIONSHEE[®]
Green Energy, Smart Home

Lionshee is a manufacturer specializing in the research, development and production of some energy products, including PV HUBs, micro inverters, home energy storage systems, mobile power and more.



Shenzhen Longsheng Energy Technology Co., Ltd.



CONTENT



Company
Profile

1



System
Introduction

2



Product
Introduction

3



System
Advantages

4



01

COMPANY PROFILE

Green energy, Smart home

COMPANY

Shenzhen Longsheng Energy Technology Co., Ltd.

Lionshee is a manufacturer specializing in the R&D and production of household energy products, including PV HUBs, microinverters, home energy storage systems, portable power etc.

We are committed to providing green energy products and solutions, especially in balcony power generation and supporting micro energy storage systems. Lionshee has established sales and service centers in Germany, the USA, Poland and China, and our goal is to provide satisfactory service through local sales and support.

Lionshee have obtained many certificates such as CNAS, CE, MSDS, IEC, UN38.3, VDE, WEEE and so on. We cooperates with local service providers in all countries to provide you with personalized customization and design. We are working for "Green Energy, Smart Home"!



Balcony
Solar
System

Local
After
Sales

VED,
CE,
IEC



01

RELIABLE

Be a trustworthy company

02

GRATEFUL

Be thankful and go all the way

03

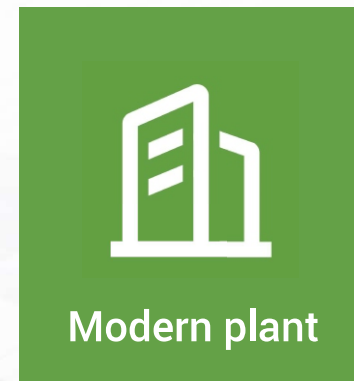
PRAGMATISM

Be practical and realistic



COMPANY CULTURE

ADVANCED PRODUCTIVITY >>>



COMPANY >>>

Strong Research and Development Team

30

More than 30 Research and Development engineers

Overseas warehouse after-sales support

Overseas warehouse

Overseas warehouse supports product returns and exchanges

Technical advisory and training services

24

Rapid response within 24 hours

- More than 30 research and development engineers, 3 laboratories and testing centers.
- After-sales support for overseas warehouse in Frankfurt, Germany, sufficient inventory and on-time delivery, overseas warehouse support for returns and exchanges.
- Quick response within 24 hours, provide technical consultation and training services, customized solutions online services.
- Products have obtained CNAS, CE, MSDS, IEC, UN38.3, VDE, WEEE and other certificates.



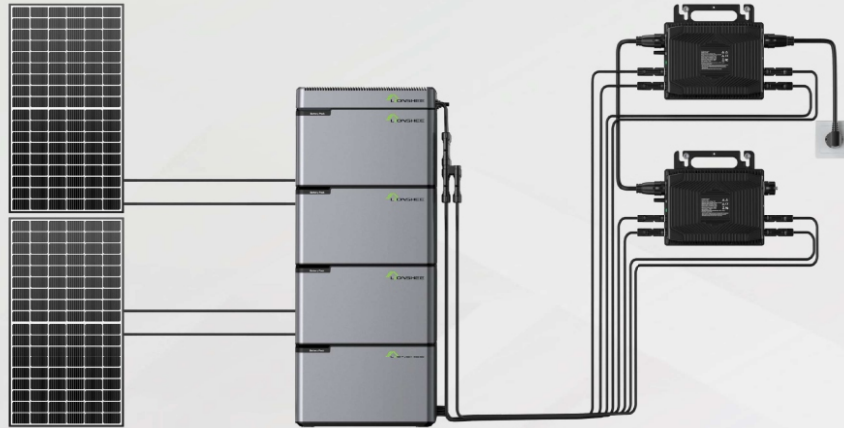


02

SYSTEM INTRODUCTION

Green energy, Smart home

COMPANY >>>



Balcony Solar System



What is a balcony solar system?

Balcony solar system is a mini solar power system that is designed for small spaces like balconies, terraces, and gardens. It is also a self-contained renewable energy system that harnesses solar energy to generate electricity.

During the day, solar energy produces electricity, some of it is partially stored and some of it goes into the home grid for immediate use. At night the electricity stored during the day can be used.

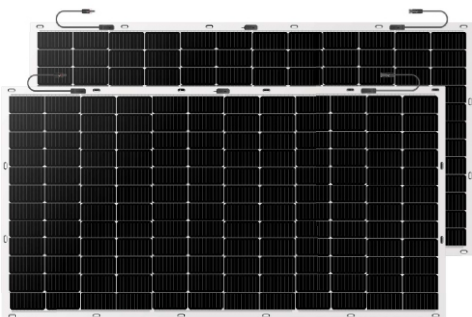


What are the components of a balcony solar system?

The **Balcony solar system** consists of several key components:

- Solar Panel**: The main unit that captures the sun's energy and converts it into electricity.
- PV HUB**: Connects the solar panel with the micro inverter and battery to regulate the power supply and storage of electricity for household loads.
- Microinverter**: Converts DC power from solar panels to AC power.
- Battery**: Stores excess power generated by solar energy during the day, and draws power from the battery when power consumption is at its peak.

PRODUCTS >>>



Ultra-light Solar Panels
400W



Micro-inverter LS-800
800W



Battery LS-L1024
1024Wh



PV HUB LS-H1600
1600W



Solar Extension
Cable



5m AC extension cable to
Schuko plug



03

PRODUCT INTRODUCTION

Green energy, Smart home

PRODUCT >>>



Micro inverter LS-800

LS-800 microinverter has 800W output power and is suitable for household and small-scale industrial and commercial scenarios. Each microinverter can connect to 2 solar modules, with independent MPPT. The whole machine adopts metal housing, with IP67 protection level. Built-in intelligent Wi-Fi module, real-time monitoring and fault identification.

1

Parallel connection

The exclusive PV HUB coordinates the microinverter for more efficient energy saving and power output.

2

MPPT tracker

With independent MPPT and monitoring maximizing the power production of your installation.

3

IP67 waterproof

The internal glue-potted design with IP67 protection level can adapt to various harsh environments.



PRODUCT >>>

Micro inverter LS-800

Plug & Play



- Built-in WIFI module
- Plug-and-Play connection, flexible installation position
- Designed for DIY, no electricians, no approval need.
- Smart APP control

Robust, Reliable, and Durable



- IP67 waterproof
- Top-tier components
- 10 years standard warranty
- Anti-islanding protection, double secure

Nations	US	EU
Model	LS-800	
Input Data(DC)		
Recommended Solar Panel Input Power	275-530W × 2	275-530W × 2
Number of DC Input Connections	MC4 × 2	MC4 × 2
Operating Voltage Range	18-55V	18-55V
Maximum DC Input Current	14A × 2	14A × 2
Output Data(AC)		
Rated Power Output:	750W	750W
Maximum Output Power	800W	800W
Rated Output Voltage	120V	230V
Output Voltage Range	90-160V	190-270V
Rated AC Current	6.6A	3.47A
Rated Output Frequency	60Hz	50Hz
Protection Function		
Protection Grade	IP67	
Communication Connection Mode	Wi-Fi / 2.4G	
Weight	2.8kg	
Size (L*W*H)	308 × 226 × 43mm	
Standards	VDE/CE-LVD/CE-RED/UL/FCC/IEEE 1547/CA65	

PRODUCT >>>



PV HUB LS-H1600

The PV HUB LS-H1600 has 1600w output power and is a system EMS management brain device that distributes power from solar panels to home electricity and battery bank storage on a case-by-case basis. The PV HUB connects solar panels and batteries for smart power distribution. You can use the APP to flexibly decide when and how to store or use electricity.

1

1600W

With a maximum output of 1600W, it can support most household appliances.

2

Smart APP

Smart APP control with the flexibility to decide when and how to store or use power.

3

Smaller & Lighter

Plug and play, easy installation, multiple installation method, simple route



PRODUCT >>>

PV HUB LS-H1600



96% Efficiency

96% efficiency provides more efficient energy savings and power output.



IP65 Protection

IP65 protection for a wide range of harsh environments.



10 Years warranty

10-year warranty, quality assurance, safety and security.

Model	LS-H1600
Recommended. PV Module	580W x 2
MPPT Voltage Range	18V - 60V
Startup Voltage	18V
Max. Input Voltage	60V
Max. DC Short Circuit Current	20A
Max. Continuous DC Output Power	800W x 2
Max. Continuous Output Current	23A
Max. Efficiency	96%
Dimension (W*D*H)	320*200*55mm
Communications	485 / Wi-Fi / Bluetooth
Protection Grade	IP65
Warranty	10 Years
Weight	4.7Kg
Standards	CE-LVD/CE-RED/UL/FCC/IEEE 1547/CA65

PRODUCT >>>



Portable Energy Battery LS-L1024

Portable Energy Battery LS-L1024 has a capacity of 1024 Wh, and uses A+ grade Li-FePO4 cell, which can store solar energy more stably, efficiently and safely. The metal casing is durable, with IP65 protection level, which can adapt to all kinds of harsh environments. It can be used in a variety of scenarios, including grid-connected, off-grid and outdoor portable use.

1

6144WH

16 cells per cell, 1024wh, expandable for 6 stacked use up to 6144wh

2

A+ grade

Adopting A+ grade battery cell, more stable, safe and reliable energy storage

3

Multi-scenario usage

Can be used in On grid, off-grid and outdoor portable.



PRODUCT >>>

Portable Energy Battery LS-L1024



Maximum 6144Wh

Connect up to 6144Wh (6 batteries)
lithium iron phosphate batteries



IP65 Protection

IP65 protection for a wide range of
harsh environments.



10 Years warranty

10-year warranty, quality assurance,
safety and security.

Model	LS-L1024
Nominal Capacity	1024Wh
Nominal Voltage	52V
Working Voltage Range	40 - 58.4V
Battery Type	LiFePO4
Dimension (W*D*H)	320*200*181mm
Weight	9kg
Compatible	4
Operating Ambient Temperature Range	-20°~65°
Protection Grade	IP65
Cooling	Nature Cooling
Warranty	10 Years
Standards	CE/ROHS/UL/TUV-US/IEC62133/EN62133



04

SYSTEM ADVANTAGES

Green energy, Smart home

ADVANTAGES >>>

Balcony Solar System that rely on renewable energy sources such as solar power. Balcony solar energy storage products can reduce your carbon footprint and help create a more sustainable future.

Easy Installation



Plug-and-Play Made Effortless. One cable is everything-plug-in, charge, disassemble, and move in seconds with no mess or extra costs.

Long Lifespan



Products in the system have 10 years to 25 years life, the battery has 6000 cycles lifespan, that can provide long-term benefits and a solid return on investment for homeowners.

-20°C ~ 55°C Outdoor Work



The batteries are equipped with internal heating pads for outdoor installation in cold climates, and intelligent BMS control warms the batteries to optimal operating temperature before use.

Safe & Convenient



IP67 protection level, Battery with IP65 water-proof design, even in the harshest weather conditions, balcony solar system still allows you to use it for longer periods.

ADVANTAGES >>>

Product Advantages

Power through the night

When you start peaking in your electricity demand in the evening, your home draws energy from the battery and keeps on saving. It helps you to be less reliant on the grid.

0 energy wasted
750KWH, 3.5times

This system stores all excess energy in the battery during the daytime and gives it back to you whenever you need it. With up to 750kWh feeding into your home per year, you can save a sum of 300€. And your energy bill savings are 3.5 times as much as those using other home solar systems without batteries.

Fit Different Scenerios

Can be used not only in the balconies, but also in many other different scenerios, in order to meet users' various needs, such as apartments, gardens, and rooftops.

ADVANTAGES >>>



ODE/OEM

The full line of Balcony Solar System products are available for customization, including custom logo, design molds, custom pictures/videos, and brand representation.



NATURE ENERGY



THANK YOU