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Leedpower



PRODUCT SELECTION GUIDE

GUANGZHOU LEED POWER CO., LTD

Leed Power



Company Introduction

Company Overview

Guangzhou Leed Power Co., Ltd is located in Panyu District, Guangzhou, China. It is committed to providing energy storage solutions to household users around the world. It is a high-tech enterprise integrating the design and installation of household photovoltaic energy storage systems. It is a high-quality product in the new energy field. Our company is the truly advocates and promoters of new energy.

Main Products

The company's main products include solar modules, Solar Energy Storage Inverter, Solar Inverter, lithium iron phosphate batteries, etc.

Business Scope

Leed Power provides household energy storage solutions and after-sales services to users in more than 100 countries and regions around the world.

Corporate Philosophy

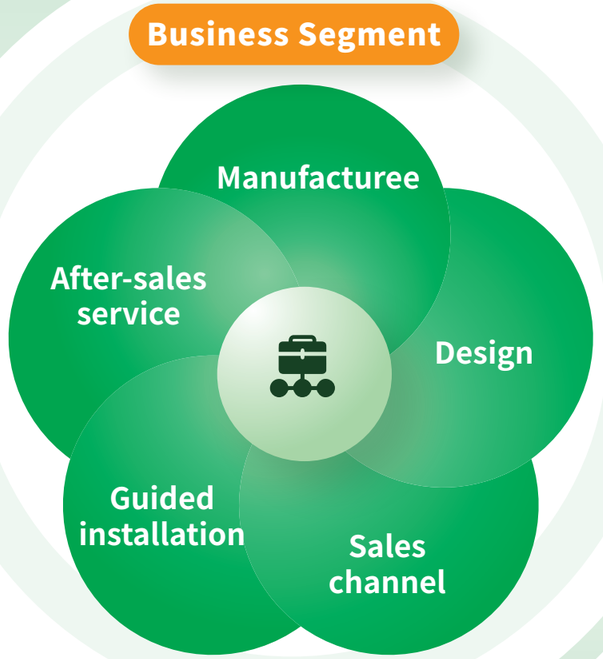
Customers come first, and we constantly improve product and service quality

Enterprise Value

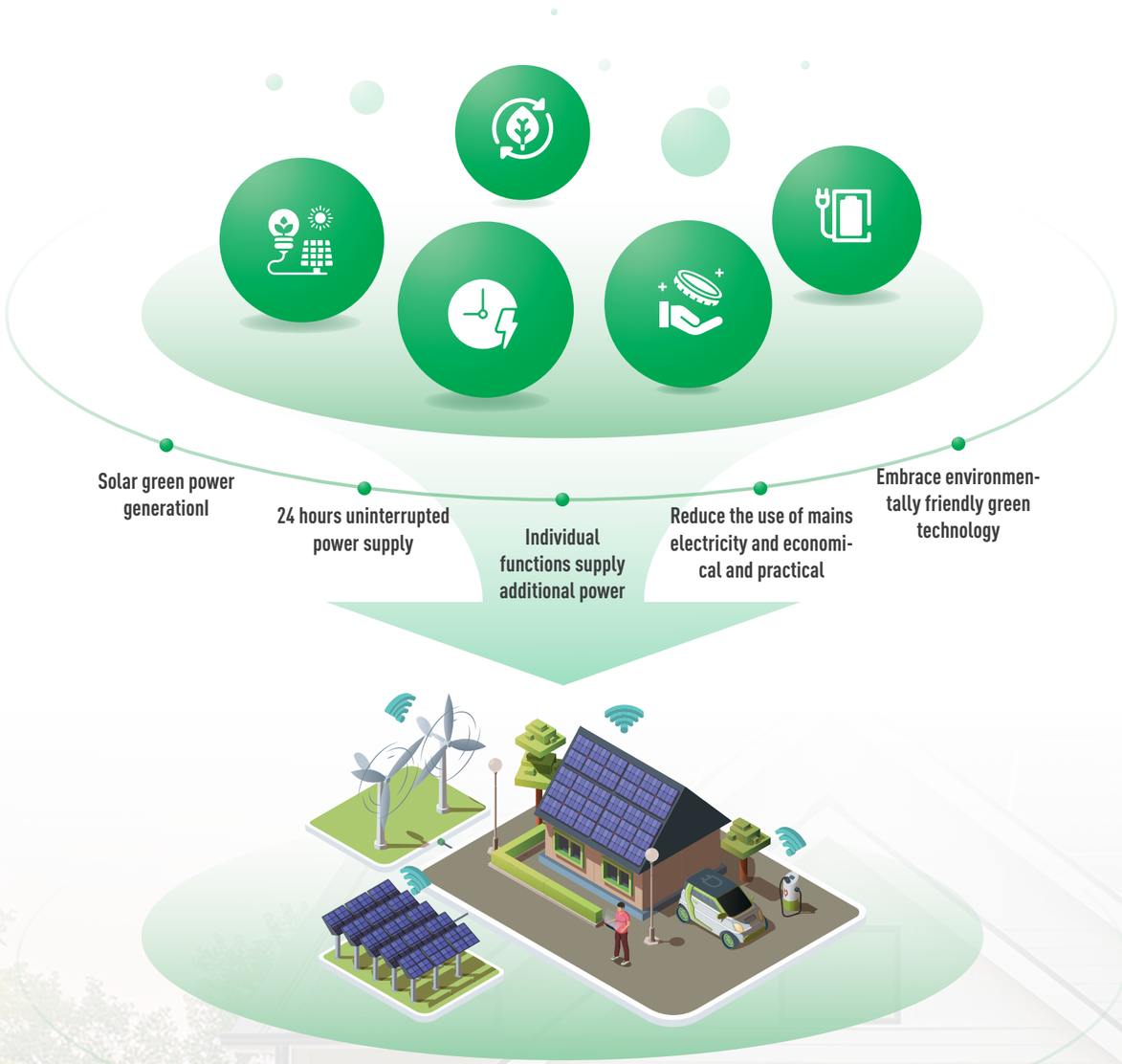
Reduce users' electricity costs and provide electricity stability.

Corporate Vision

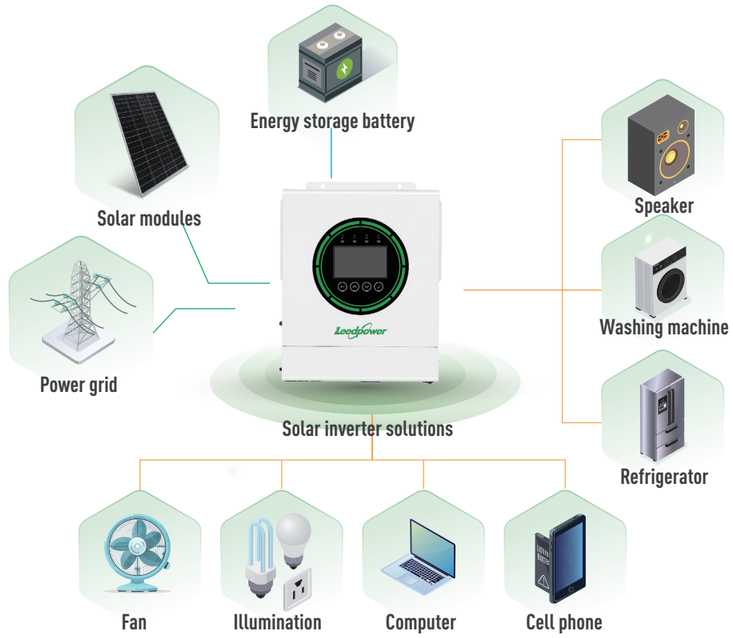
The world's leading provider of energy storage solutions.



Features Of Home Green Electricity



Solar Inverter Solutions



Solar Inverter System Diagram

Green Electricity Generation Process

01

Solar panels are used to convert sunlight into electrical energy to provide electricity for the home during the day.

02

Equipped with an energy storage battery system to store excess electricity generated during the day for use at night or when there is insufficient light.

System Composition



Solar Photovoltaic Panel

The basic component that converts sunlight into DC electricity.



Energy Storage Battery

stores the energy generated by photovoltaic panels for use at night or when there is no light.



Solar Energy Storage Inverter

01. Solar controller module regulates and manages the electric energy generated by solar panels, protects the battery from the effect of excessive current and overcharge damage, and extends the service life of the battery.

02. Inverter module: Converts DC power into AC power that can be used in homes.

Leed Power

Program Features

Efficient Power Generation

Use photovoltaic panels with high conversion efficiency to maximize the utilization of solar energy.

Modular Design

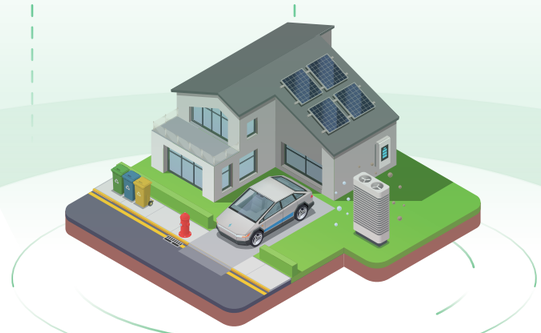
System components can be flexibly configured according to the specific needs of the home

Safety Protection

It has complete overload, short circuit, leakage and other protection functions to ensure safety use

Environmental Adaptability

The system design takes into account different climate and environmental factors to ensure stable operation



3600W Solar Inverter Package

Number	Product Name	Quantity	Unit
3600w Solar Inverter 5kwh battery 1600w battery panel			
1	200W Solar panels	8	Piece
2	3600W Solar Inverter	1	Unit
3	5kwh	1	Piece
4	Solar panel bracket	8	Set
5	Photovoltaic input box	1	Unit
6	Photovoltaic supporting connection line	1	Set



Daily power generation is about 2.4kwh~8.0kwh **Power storage capacity: 5.0kwh**

Loading conditions:
a 20W light bulb + a 500W washing machine + a 500W mini rice cooker + a 200W refrigerator + a 50W TV + a 50W fan + a mobile phone charger, can run continuously for 2.5 hours。

6500W Solar Inverter Package

Number	Product Name	Quantity	Unit
6500w Solar Inverter 10kwh battery 3600w battery panel			
1	580W Solar panels	6	Piece
2	6500W Solar Inverter	1	Unit
3	10kwh	1	Piece
4	Solar panel bracket	1	Set
5	Photovoltaic input box	1	Unit
6	Photovoltaic supporting connection line	1	Set



Daily power generation is about 5.4kwh~18kwh **Power storage capacity: 10kwh**

Loading conditions:
a 20W light bulb + a 500W washing machine + a 500W rice cooker + a 200W refrigerator + a 50W TV + a 50W fan + an 800W air conditioner + a mobile phone charger can run continuously for 3.0 hours.

12000W Solar Inverter Package

Number	Product Name	Quantity	Unit
12000w Solar Inverter 20kwh battery 8120w battery panel			
1	580W Solar panels	14	Piece
2	12000W Solar Inverter	1	Unit
3	10kwh	2	Piece
4	Solar panel bracket	1	Set
5	Photovoltaic input box	1	Unit
6	Photovoltaic supporting connection line	1	Set



Daily power generation is about 12kwh~40.6kwh **Power storage capacity: 10kwh**

Loading conditions:
5x20W light bulb + a 1000W washing machine + a 500W rice cooker + a 300W refrigerator + a 50W TV + a 50W fan + 3* 800W air conditioner + 1* 2000W heater +a mobile phone charger can run continuously for 4.5 hours.



Wall-mounted solar hybrid inverter — LD-WHFCI-3600W-24V



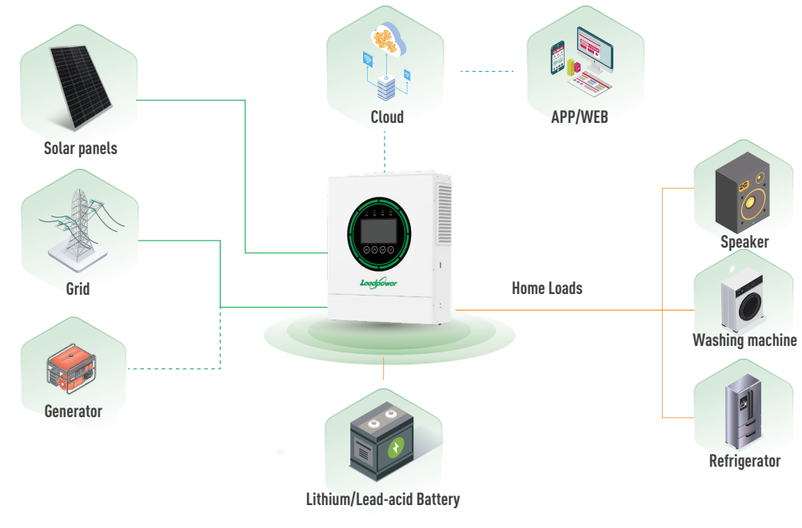
Product overview

The WHFCI series high-frequency hybrid solar inverters adopt a high-frequency bidirectional energy storage architecture design, enabling bidirectional charging and discharging management of the battery by both photovoltaic (PV) and mains power. When PV power generation generates surplus electricity, the system prioritizes charging the battery; when PV power generation is insufficient, it can automatically switch to mains power or battery power to supply the load, thereby improving the efficiency of PV energy utilization and ensuring the continuity and stability of power supply.

Product features

- 01 Built-in 100A Solar Charger
- 02 Wide PV Input Voltage Range 40-500V
- 03 Feed-in to Grid
- 04 Dual AC Output
- 05 Support Lithium/Lead-acid Battery
- 06 Lithium Battery Activation
- 07 Detachable Dust Cover
- 08 WiFi Monitoring(optional)

System Diagram



Product Specifications

Model	LD-WHFCI-3600W-24V
AC Input	
Rated Input Voltage (VAC)	208/220/230/240;L + N + PE
Voltage Range (VAC)	90~280 (APP/GEN mode); 170~264 (UPS mode)
Frequency (Hz)	50/ 60 (Auto Adaptive)
AC Output	
Rated Capacity (kVA/kW)	3.6
Surge Power (kVA)	7.2
Voltage (VAC)	208/220/230/240
Power Factor (PF)	1
Frequency (Hz)	50/60
Switch Time (ms)	10 (APP/UPS mode)/20 (GEN mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	1min@102%-110% load, 10s@110%-200% load
Max. Efficiency (Battery Mode)	92.7%@24VDC
Parallel Quantity	NA
Charger (PV /AC)	
Solar Charger Type	MPPT
Max. PV input Current (A) / Input Power(W)	18/5000
MPPT Range@Operating Voltage (VDC)	40~450
Max. PV Open Circuit Voltage (VDC)	500
Max. PV Charge Current (A)	100
Max. AC Charge Current (A)	100
Max. Charge Current (PV + AC) (A)	100
Battery	
Rated Voltage (VDC)	24
Max. Charging Current (A)	100
Max. Discharging Current (A)	150
Battery Type	Lithium / Lead-acid
Interface	
HMI	LCD
Interface	RS485 / CAN / RS232
Monitoring	WiFi (optional/built-in/external)
General Data	
Ingress Protection	IP21
Operating Temperature (°C)	-10~60
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature (°C)	-15~60
Net Weight (kg)	6.2
Gross Weight (kg)	7.3
Product Dimensions (H*W*D) (mm)	420*284*94 (without bracket)
Package Dimensions(H*W*D) (mm)	518×342×170mm
Max. Operating Altitude (m)	4000 (Derating above 2000)

Wall-mounted solar hybrid inverter — LD-WHFCI-6500W-48V



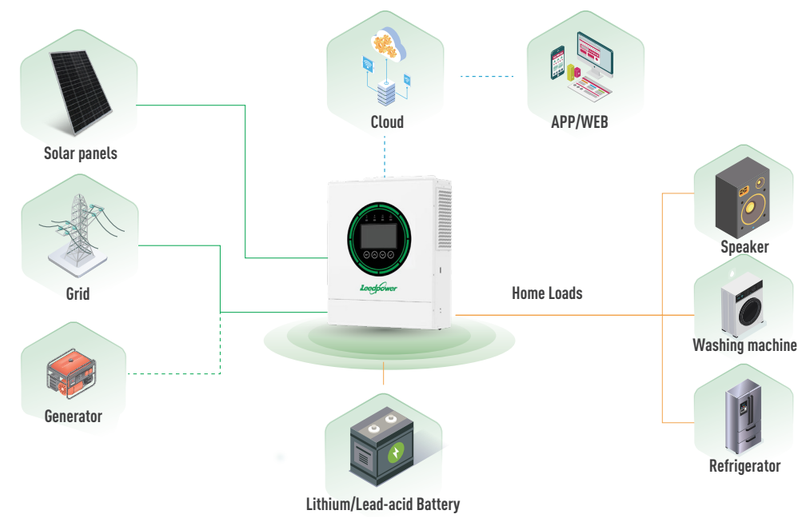
Product overview

The WHFCI series high-frequency hybrid solar inverters adopt a high-frequency bidirectional energy storage architecture design, enabling bidirectional charging and discharging management of the battery by both photovoltaic (PV) and mains power. When PV power generation generates surplus electricity, the system prioritizes charging the battery; when PV power generation is insufficient, it can automatically switch to mains power or battery power to supply the load, thereby improving the efficiency of PV energy utilization and ensuring the continuity and stability of power supply.

Product features

- 01 Built-in 120A Solar Charger
- 02 Wide PV Input Voltag-eRange 60-500V
- 03 27A MAX PV Input
- 04 Dual AC Out
- 05 Support Lithium/Lead-acid Battery
- 06 Lithium Battery Activation
- 07 Feed-in to Grid
- 08 WiFi Monitoring(optional)
- 09 5 Inch Display

System Diagram



Product Specifications

Model	LD-WHFCI-6500W-48V
AC Input	
Rated Input Voltage (VAC)	208/220/230/240;L + N + PE
Voltage Range (VAC)	90~280 (APP/GEN mode); 170~264 (UPS mode)
Frequency (Hz)	50/ 60 (Auto Adaptive)
AC Output	
Rated Capacity (kVA/kW)	6.5
Surge Power (kVA)	12
Voltage (VAC)	208/220/230/240
Power Factor (PF)	1
Frequency (Hz)	50/60
Switch Time (ms)	10 (APP/UPS mode)/20 (GEN mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	1min@102%-110% load, 10s@110%-200% load
Max. Efficiency (Battery Mode)	94%@48VDC
Parallel Quantity	NA
Charger (PV /AC)	
Solar Charger Type	MPPT
Max. PV input Current (A) / Input Power(W)	27/9000
MPPT Range@Operating Voltage (VDC)	60~450
Max. PV Open Circuit Voltage (VDC)	500
Max. PV Charge Current (A)	120
Max. AC Charge Current (A)	120
Max. Charge Current (PV + AC) (A)	120
Battery	
Rated Voltage (VDC)	48
Max. Charging Current (A)	120
Max. Discharging Current (A)	140
Battery Type	Lithium / Lead-acid
Interface	
HMI	5 inch LCD
Interface	RS485 / CAN / RS232
Monitoring	WiFi (optional/built-in/external)
General Data	
Ingress Protection	IP21
Operating Temperature (°C)	-10~60
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature (°C)	-15~60
Net Weight (kg)	8.4
Gross Weight (kg)	9.5
Dimensions (H*W*D) (mm)	410*336*110 (without bracket)
Package Dimensions(H*W*D) (mm)	490×394×176mm
Max. Operating Altitude (m)	4000 (Derating above 2000)

Wall-mounted solar hybrid inverter — LD-WHFCI-6500W-48V-EN



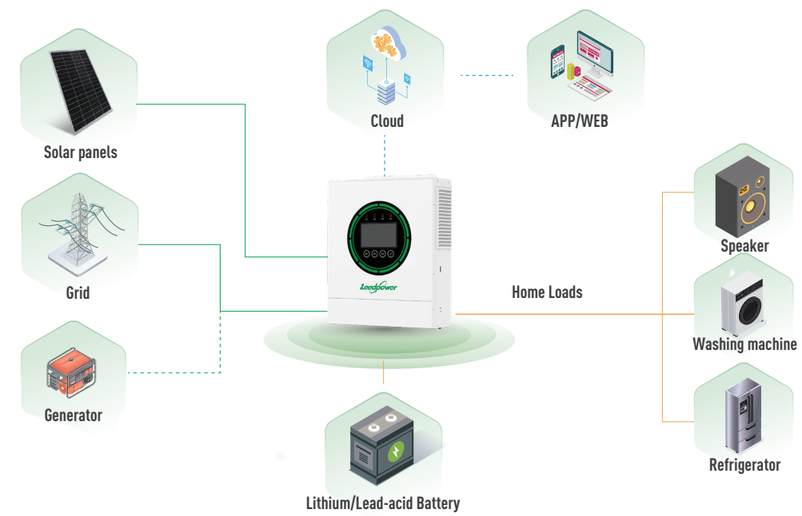
Product overview

The WHFCI series high-frequency hybrid solar inverters adopt a high-frequency bidirectional energy storage architecture design, enabling bidirectional charging and discharging management of the battery by both photovoltaic (PV) and mains power. When PV power generation generates surplus electricity, the system prioritizes charging the battery; when PV power generation is insufficient, it can automatically switch to mains power or battery power to supply the load, thereby improving the efficiency of PV energy utilization and ensuring the continuity and stability of power supply.

Product features

- 01 Built-in 120A Solar Charger
- 02 Wide PV Input Voltag-eRange 60-500V
- 03 27A MAX PV Input
- 04 Dual AC Out
- 05 Support Lithium/Lead-acid Battery
- 06 Lithium Battery Activation
- 07 Feed-in to Grid
- 08 WiFi Monitoring(optional)
- 09 5 Inch Display

System Diagram



Product Specifications

Model	LD-WHFCI-6500W-48V-EN
AC Input	
Rated Input Voltage (VAC)	208/220/230/240;L + N + PE
Voltage Range (VAC)	90~280 (APP/GEN mode); 170~264 (UPS mode)
Frequency (Hz)	50/ 60 (Auto Adaptive)
AC Output	
Rated Capacity (kVA/kW)	6.5
Surge Power (kVA)	12
Voltage (VAC)	208/220/230/240
Power Factor (PF)	1
Frequency (Hz)	50/60
Switch Time (ms)	10 (APP/UPS mode)/20 (GEN mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	1min@102%-110% load, 10s@110%-200% load
Max. Efficiency (Battery Mode)	94%@48VDC
Parallel Quantity	NA
Charger (PV /AC)	
Solar Charger Type	MPPT
Max. PV input Current (A) / Input Power(W)	27/9000
MPPT Range@Operating Voltage (VDC)	60~450
Max. PV Open Circuit Voltage (VDC)	500
Max. PV Charge Current (A)	120
Max. AC Charge Current (A)	120
Max. Charge Current (PV + AC) (A)	120
Battery	
Rated Voltage (VDC)	48
Max. Charging Current (A)	120
Max. Discharging Current (A)	140
Battery Type	Lithium / Lead-acid
Interface	
HMI	5 inch LCD
Interface	RS485 / CAN / RS232
Monitoring	WiFi (optional/built-in/external)
General Data	
Ingress Protection	IP54
Operating Temperature (°C)	-10~60
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature (°C)	-15~60
Net Weight (kg)	8.4
Gross Weight (kg)	9.5
Dimensions (H*W*D) (mm)	410*336*110 (without bracket)
Package Dimensions(H*W*D) (mm)	490×394×176mm
Max. Operating Altitude (m)	4000 (Derating above 2000)

Wall-mounted solar hybrid inverter — LD-WHFCI-12000W-48V



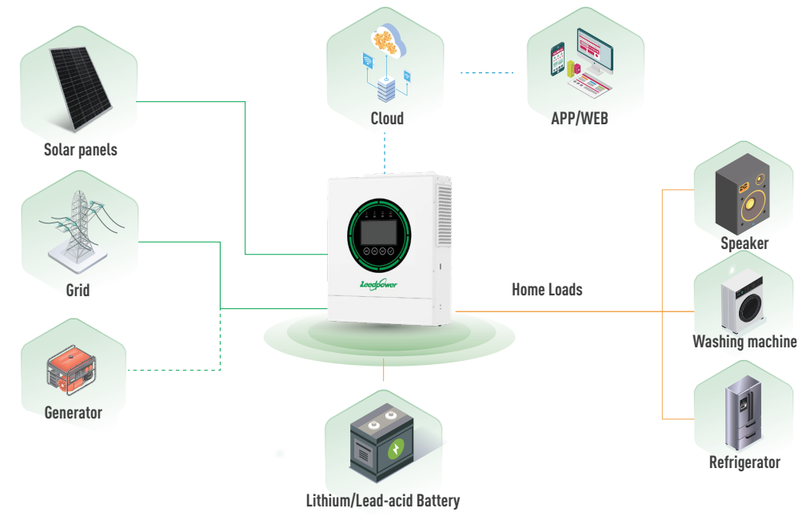
Product overview

The WHFCI series high-frequency hybrid solar inverters adopt a high-frequency bidirectional energy storage architecture design, enabling bidirectional charging and discharging management of the battery by both photovoltaic (PV) and mains power. When PV power generation generates surplus electricity, the system prioritizes charging the battery; when PV power generation is insufficient, it can automatically switch to mains power or battery power to supply the load, thereby improving the efficiency of PV energy utilization and ensuring the continuity and stability of power supply.

Product features

- 01 Built-in 160A Solar Charger
- 02 Wide PV Input Voltag-eRange 60-500V
- 03 Dual MPPTs Input
- 04 27A+27AMAX PV Input
- 05 Support Lithium/Lead-acid Battery
- 06 Lithium Battery Activation
- 07 Feed-in to Grid
- 08 WiFi Monitoring(optional)
- 09 5 Inch Display
- 10 Dual AC Out

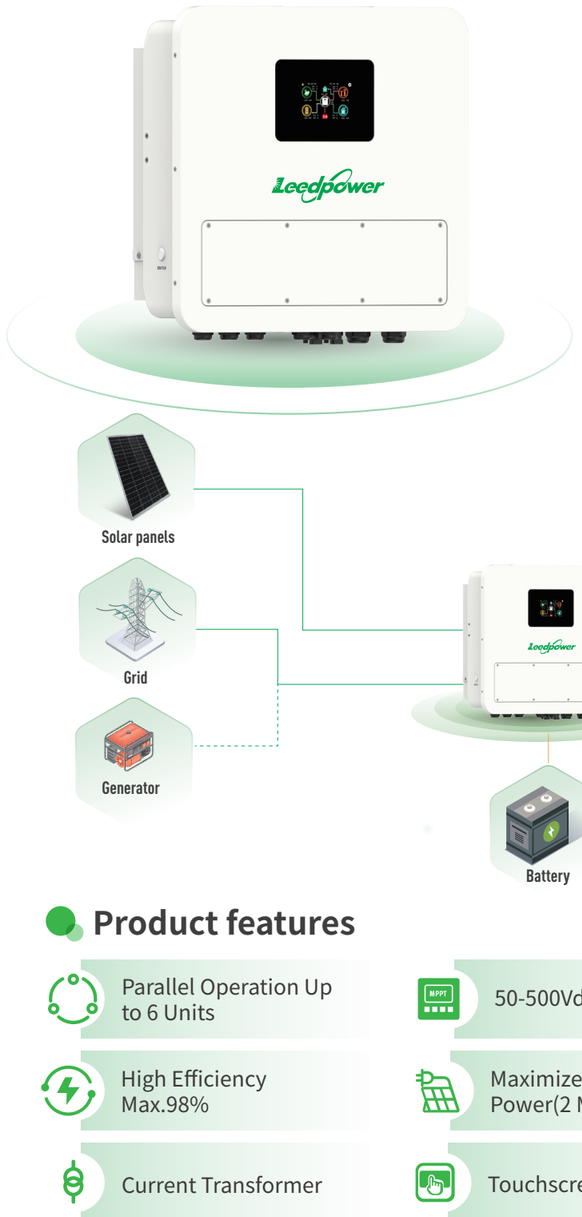
System Diagram



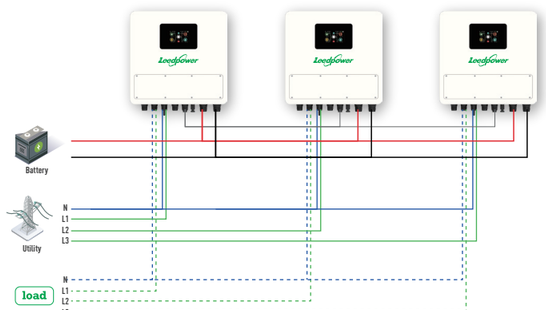
Product Specifications

Model	LD-WHFCI-12000W-48V
AC Input	
Rated Input Voltage (VAC)	220/230/240;L + N + PE
Voltage Range (VAC)	90~280 (APP/GEN mode); 170~264 (UPS mode)
Frequency (Hz)	50/ 60 (Auto Adaptive)
AC Output	
Rated Capacity (kVA/kW)	12
Surge Power (kVA)	24
Voltage (VAC)	220/230/240
Power Factor (PF)	1
Frequency (Hz)	50/60
Switch Time (ms)	10 (APP/UPS mode)/20 (GEN mode)
Wave Form	Pure Sine Wave
Overload Capacity(PV+Battery mode /PV Mode)	1min@102%-125% Load, 10s@125%-200% Load
Max. Efficiency (Battery Mode)	94%@48VDC
Parallel Quantity	NA
Charger (PV /AC)	
Solar Charger Type	Dual MPPTs
Max. PV input Current (A) / Input Power(W)	Using One MPPT: 27A/9KW Using Two MPPTs: 27A/Per MPPT, 15kW/Total
MPPT Range@Operating Voltage (VDC)	60~450
Max. PV Open Circuit Voltage (VDC)	500
Max. PV Charge Current (A)	160
Max. AC Charge Current (A)	160
Max. Charge Current (PV + AC) (A)	160
Battery	
Rated Voltage (VDC)	48
Max. Charging Current (A)	160
Max. Discharging Current (A)	220
Battery Type	Lithium / Lead-acid
Interface	
HMI	5 inch LCD
Interface	RS485 / CAN / RS232
Monitoring	WiFi (optional/built-in/external)
General Data	
Ingress Protection	IP21
Operating Temperature (°C)	-10~60
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature (°C)	-15~60
Net Weight (kg)	15
Gross Weight (kg)	16.5
Dimensions (H*W*D) (mm)	495*425*120 (without bracket)
Package Dimensions(H*W*D) (mm)	594×500×210mm
Max. Operating Altitude (m)	4000 (Derating above 2000)

Wall-mounted solar hybrid inverter — LD-WHFCI-3KW-24V-IP65



System Diagram



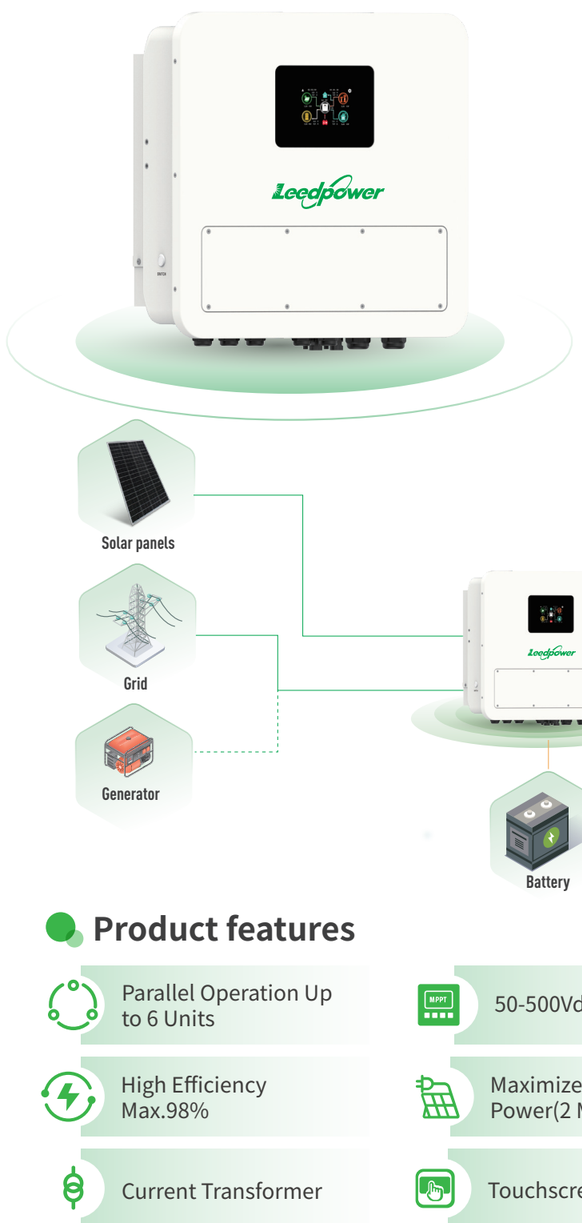
Product features

- Parallel Operation Up to 6 Units
- 50-500Vdc(6KW)
- 2 Independent AC Inputs 2 Outputs
- High Efficiency Max.98%
- Maximize PV Input Power(2 MPPTs)
- Wi-Fi
- Current Transformer
- Touchscreen

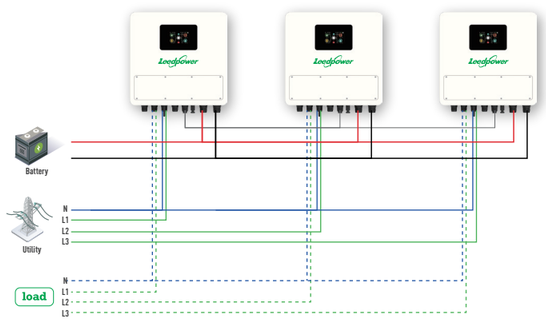
Product Specifications

Model	LD-WHFCI-3KW-24V-IP65
PHASE	1-phase in /1-phase out
MAXIMUM PV INPUT POWER	4500W
RATED OUTPUT POWER	3000W
MAXIMUM CHARGING POWER	3000W
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage	170VAC-280 VAC
Acceptable Input Voltage Range	90-280 VAC(APL)or170-280VAC(UPS)
Frequency Range	50 Hz/60 Hz(Auto sensing)
Maximum AC Input Current	16A
PV INPUT(DC)	
Maximum DC Voltage	500Vdc
MPPT Voltage Range	60Vdc-450Vdc
Number of MPPT Trackers/Maximum Input Current	1/18A
BATTERY MODE OUTPUT(AC)	
Nominal Output Voltage	220/230/240VAC
Output Waveform	Pure sine wave
Efficiency (DC to AC)	93%
HYBRID OPERATION	
PV INPUT(DC)	
Maximum DC Voltage	500Vdc
Start-up Voltage/Initial Feeding Voltage	90Vdc/120Vdc
MPPT Voltage Range	60Vdc-450Vdc
Number of MPPT Trackers/Maximum Input Current	1/18A
GRID OUTPUT(AC)	
Nominal Output Voltage	220/230/240VAC
Output Voltage Range	184-264.5 VAC or 195.5-253 VAC or 184-264.4 VAC(Selectable)
Nominal Output Current	13A
AC INPUT	
AC Start-up Voltage	170VAC-280 VAC
Acceptable Input Voltage Range	90-280VAC or 170-280 VAC
Maximum AC Input Current	16A
BATTERY MODE OUTPUT(AC)	
Nominal Output Voltage	220/230/240VAC
Efficiency (DC to AC)	93%
BATTERY & CHARGER	
Nominal DC Voltage	24Vdc
Maximum Solar Charging Current	100A
Maximum AC Charging Current	100A
Maximum Charging Current	100A
GENERAL	
PHYSICAL	
Dimension, D x W x H(mm)	451x353x160.2
Net Weight (kg)	12.3
INTERFACE	
Communication Port	RS232/RS485/Wi-Fi
ENVIRONMENT	
Humidity	5% to 95% Relative Humidity(Non-condensing)
IP degree	IP65
Operating Temperature	-10℃~50℃
Storage Temperature	-15℃~60℃

Wall-mounted solar hybrid inverter—LD-WHFCI-6KW-48V-IP65



System Diagram



Product features

- Parallel Operation Up to 6 Units
- 50-500Vdc(6KW)
- 2 Independent AC Inputs 2 Outputs
- High Efficiency Max.98%
- Maximize PV Input Power(2 MPPTs)
- Wi-Fi
- Current Transformer
- Touchscreen

Product Specifications

Model	LD-WHFCI-6KW-48V-IP65
PHASE	1-phase in /1-phase out
MAXIMUM PV INPUT POWER	4500W+4500W
RATED OUTPUT POWER	6000W
MAXIMUM CHARGING POWER	6000W
GRID-TIED OPERATION	
PV INPUT(DC)	
Maximum DC Voltage	520Vdc
Start-up Voltage /Initial Feeding Voltage	90Vdc/120Vdc
MPPT Voltage Range	50Vdc-500Vdc
Number of MPPT Trackers /Maximum Input Current	2/18A
GRID OUTPUT(AC)	
Nominal Output Voltage	220/230/240VAC
Output Voltage Range	184-264.5 VAC or 195.5-253 VAC or 184-264.4 VAC(Selectable)
Nominal Output Current	26.1A
Power Factor	>0.99
EFFICIENCY	
Maximum Conversion Efficiency(DC/AC)	97%
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage	170VAC-280 VAC
Acceptable Input Voltage Range	90-280 VAC(APL)or170-280VAC(UPS)
Frequency Range	50 Hz/60 Hz(Auto sensing)
Maximum AC Input Current	35A
PV INPUT(DC)	
Maximum DC Voltage	520Vdc
MPPT Voltage Range	50Vdc-500Vdc
Number of MPPT Trackers/Maximum Input Current	2/18A
BATTERY MODE OUTPUT(AC)	
Nominal Output Voltage	220/230/240VAC
Output Waveform	Pure sine wave
Efficiency (DC to AC)	93%
HYBRID OPERATION	
PV INPUT(DC)	
Maximum DC Voltage	520Vdc
Start-up Voltage/Initial Feeding Voltage	90Vdc/120Vdc
MPPT Voltage Range	50Vdc-500Vdc
Number of MPPT Trackers/Maximum Input Current	2/18A
GRID OUTPUT(AC)	
Nominal Output Voltage	220/230/240VAC
Output Voltage Range	184-264.5 VAC or 195.5-253 VAC or 184-264.4 VAC(Selectable)
Nominal Output Current	26.1A
AC INPUT	
AC Start-up Voltage	170VAC-280 VAC
Acceptable Input Voltage Range	90-280VAC or 170-280 VAC
Maximum AC Input Current	35A
BATTERY MODE OUTPUT(AC)	
Nominal Output Voltage	220/230/240VAC
Efficiency (DC to AC)	93%
BATTERY & CHARGER	
Nominal DC Voltage	48Vdc
Maximum Solar Charging Current	125A
Maximum AC Charging Current	125A
Maximum Charging Current	125A
GENERAL	
PHYSICAL	
Dimension, D x W x H(mm)	493x4999x200
Net Weight (kg)	18.7
INTERFACE	
Parallel Function	Yes, 6 units
Communication Port	RS485/CAN/Wi-Fi/Dry contact
ENVIRONMENT	
Humidity	5% to 95% Relative Humidity(Non-condensing)
IP degree	IP65
Operating Temperature	-10°C～50°C
Storage Temperature	-15°C～60°C

High Frequency Solar Energy Storage Inverter — LD-LHFES-3.6KW-B5

Product overview

The LHFES series integrates the functions of a solar charge controller, an inverter, and a battery, offering capabilities for solar charging, power inversion, and energy storage. Its intuitive LCD interface allows users to easily monitor the device's operational status. The unit features user-friendly controls, including AC output sockets for lighting, a DC battery circuit breaker, and an AC output switch.

Product features

01 Built-in solar charger, energy storage batter

02 Simple installation and connection method saves installation time and steps

03 LCD display for easy viewing of equipment operating data

04 Portable design, all in one machine

Product Specifications

Model	LD-LHFES-3.6KW-B5
AC Input	
Rated Input Voltage (VAC)	208/220/230/240;L + N + PE
Voltage Range (VAC)	90~280 (APP/GEN mode); 170~264 (UPS mode)
Frequency (Hz)	50/ 60 (Auto Adaptive)
AC Output	
Rated Capacity (kVA/kW)	3.6
Surge Power (kVA)	7.2
Voltage (VAC)	208/220/230/240
Power Factor (PF)	1
Frequency (Hz)	50/60
Switch Time (ms)	10 (APP/UPS mode)/20 (GEN mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	1min@102%-110% load, 10s@110%-200% load
Max. Efficiency (Battery Mode)	92.7%@24VDC
Parallel Quantity	NA
battery pack	
Battery rated input voltage	25.6VDC
Float charge voltage	27V
Battery Type	Lithium iron phosphate battery
Built-in battery specifications	25.6V 200Ah (lithium iron phosphate battery)
Charger (PV /AC)	
Solar Charger Type	MPPT
Max. PV input Current (A) / Input Power(W)	18/5000
MPPT Range@Operating Voltage (VDC)	40~450
Max. PV Open Circuit Voltage (VDC)	500
Max. PV Charge Current (A)	100
Max. AC Charge Current (A)	100
Max. Charge Current (PV + AC) (A)	100
Interface	
HMI	LCD
Interface	RS485 / CAN / RS232
Monitoring	WiFi (optional/built-in/external)
General Data	
Ingress Protection	IP21
Operating Temperature (°C)	-10~60
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature (°C)	-15~60
Net Weight (kg)	55kg
Gross Weight (kg)	60kg
Dimensions (H*W*D) (mm)	610×419×323mm
Packaging Dimensions (H*W*D) (mm)	715×525×425mm

High Frequency Solar Energy Storage Inverter — LD-LHFES-6.5KW-B10



Product overview

The LHFES series integrates the functions of a solar charge controller, an inverter, and a battery, offering capabilities for solar charging, power inversion, and energy storage. Its intuitive LCD interface allows users to easily monitor the device's operational status. The unit features user-friendly controls, including AC output sockets for lighting, a DC battery circuit breaker, and an AC output switch.

Product features

01 Built-in solar charger, energy storage batter

02 Simple installation and connection method saves installation time and steps

03 LCD display for easy viewing of equipment operating data

04 Portable design, all in one machine

Product Specifications

Model	LD-LHFES-6.5KW-B10
AC Input	
Rated Input Voltage (VAC)	208/220/230/240;L + N + PE
Voltage Range (VAC)	90~280 (APP/GEN mode); 170~264 (UPS mode)
Frequency (Hz)	50/ 60 (Auto Adaptive)
AC Output	
Rated Capacity (kVA/kW)	6.5
Surge Power (kVA)	12
Voltage (VAC)	208/220/230/240
Power Factor (PF)	1
Frequency (Hz)	50/60
Switch Time (ms)	10 (APP/UPS mode)/20 (GEN mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	1min@102%-110% load, 10s@110%-200% load
Max. Efficiency (Battery Mode)	94%@48VDC
Parallel Quantity	NA
battery pack	
Battery rated input voltage	48VDC
Float charge voltage	50.6V
Battery Type	Lithium iron phosphate battery
Built-in battery specifications	51.2V 200Ah (lithium iron phosphate battery)
Charger (PV /AC)	
Solar Charger Type	MPPT
Max. PV input Current (A) / Input Power(W)	27/9000
MPPT Range@Operating Voltage (VDC)	60~450
Max. PV Open Circuit Voltage (VDC)	500
Max. PV Charge Current (A)	120
Max. AC Charge Current (A)	120
Max. Charge Current (PV + AC) (A)	120
Interface	
HMI	5 inch LCD
Interface	RS485 / CAN / RS232
Monitoring	WiFi (optional/built-in/external)
General Data	
Ingress Protection	IP21
Operating Temperature (°C)	-10~60
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature (°C)	-15~60
Net Weight (kg)	95kg
Gross Weight (kg)	114kg
Dimensions (H*W*D) (mm)	870×415×309mm
Packaging Dimensions (H*W*D) (mm)	997×465×349mm
Max. Operating Altitude (m)	4000 (Derating above 2000)

Wall-mounted household energy storage battery — 25.6V 200Ah



Product Highlights

The system boasts high energy density and high charge/discharge conversion efficiency; it features a built-in BMS battery management system with multiple safety protections; the system structure is flexible and reliable, supporting expansion and upgrades; and its highly modular design results in a simple structure that is easy to install and maintain.

Core advantages

Small in size, large in capacity, easy to move, and supports up to 15 groups of parallel expansion to meet different capacity requirements.

Application scenarios

Suitable for home energy storage applications such as small-capacity grid-connected equipment, low-power household appliances, mains backup power systems, and home emergency backup power.

Product Features

01 Supports up to 15 units in parallel for expansion

02 Support main-stream inverters in the market

03 LCD display, easy to view battery operation data

04 Built-in advanced battery protection module, safe and efficient operation

Product Specifications

Project	Parameter
Model	LD-WLFP25.6V-200
Power	5.12 KWh
Rated capacity	200Ah
Cell type	LiFePO4
Nominal voltage	25.6V
Discharge cut-off voltage	22.4 V
Charging cut-off voltage	29.2 V
Battery continuous charge and discharge current	100A
Maximum charge and discharge current	200A
Display Mode	LCD Display
Cooling method	Natural air cooling
Size (W x H x D)	550*360*228mm
Packaging dimensions (L×D×H)	650*460*333mm
Net weight	44kg
Gross weight	52kg
Installation type	Wall-mounted
IP Rating	IP21
Operating temperature	-10°C to 60°C
Communication methods	CAN/RS485/RS232
Communication Protocol	PYLON/GROWATT/ Voltrnic
Service life	⩾10 years

Wall-mounted household energy storage battery — 51.2V 200Ah



Product Highlights

The system boasts high energy density and high charge/discharge conversion efficiency; it features a built-in BMS battery management system with multiple safety protections; the system structure is flexible and reliable, supporting expansion and upgrades; and its highly modular design results in a simple structure that is easy to install and maintain.

Core advantages

Small in size, large in capacity, easy to move, and supports up to 15 groups of parallel expansion to meet different capacity requirements.

Application scenarios

Suitable for home energy storage applications such as small-capacity grid-connected equipment, low-power household appliances, mains backup power systems, and home emergency backup power.

Product Features

01 Supports up to 15 units in parallel for expansion

02 Support main-stream inverters in the market

03 LCD display, easy to view battery operation data

04 Built-in advanced battery protection module, safe and efficient operation

Product Specifications

Project	Parameter
Model	LD- WLFP51.2V-200
Power	10.24 KWh
Rated capacity	200 Ah
Cell type	LiFePO4
Nominal voltage	51.2V
Discharge cut-off voltage	44.8V
Charging cut-off voltage	58.4V
Battery continuous charge and discharge current	100A
Maximum charge and discharge current	200A
Display Mode	LCD Display
Cooling method	Natural air cooling
Size (W x D x H)	480x245x700mm
Packaging dimensions (L×W×H)	883x584x439mm
Net weight	87kg
Gross weight	102kg
Installation type	Wall-mounted
IP Rating	IP21
Operating temperature	Discharge: -10°C to 60°C
Communication methods	CAN/RS485/RS232
Communication Protocol	PYLON/GROWATT/ Voltrnic
Service life	⩾10 years

Floor-standing household energy storage battery — 51.2V 314Ah



Product Highlights

The system boasts high energy density and high charge/discharge conversion efficiency; it features a built-in BMS battery management system with multiple safety protections; the system structure is flexible and reliable, supporting expansion and upgrades; and its highly modular design results in a simple structure that is easy to install and maintain.

Core advantages

Small in size, large in capacity, easy to move, and supports up to 15 groups of parallel expansion to meet different capacity requirements.

Application scenarios

Suitable for home energy storage applications such as small-capacity grid-connected equipment, low-power household appliances, mains backup power systems, and home emergency backup power.

Product Features

01 Supports up to 15 units in parallel for expansion

02 Support main-stream inverters in the market

03 LCD display, easy to view battery operation data

04 Built-in advanced battery protection module, safe and efficient operation

Product Specifications

Project	Parameter
Model	LD- FSLFP51.2V-314
Power	16KWh
Rated capacity	314Ah
Cell type	LiFePO4
Nominal voltage	51.2V
Discharge cut-off voltage	44.8V
Charging cut-off voltage	58.4V
Battery continuous charge and discharge current	157A
Maximum charge and discharge current	200A
Maximum load	8.9KW
Display Mode	LCD Display
Cooling method	Natural air cooling
Size (W x D x H)	480x225x850mm
Packaging dimensions (L×W×H)	980x660x515mm
Net weight	115kg
Gross weight	136kg
Installation type	Floor-standing/Pulley
IP Rating	IP21
Operating temperature	-10°C to 60°C
Communication methods	CAN/RS485/RS232
Communication Protocol	PYLON/GROWATT/ Voltrnic
Service life	⩾10 years

Monocrystalline Solar Panel



Product Features

01

Modules can withstand snow pressure up to 5400Pa and wind pressure up to 2400Pa

02

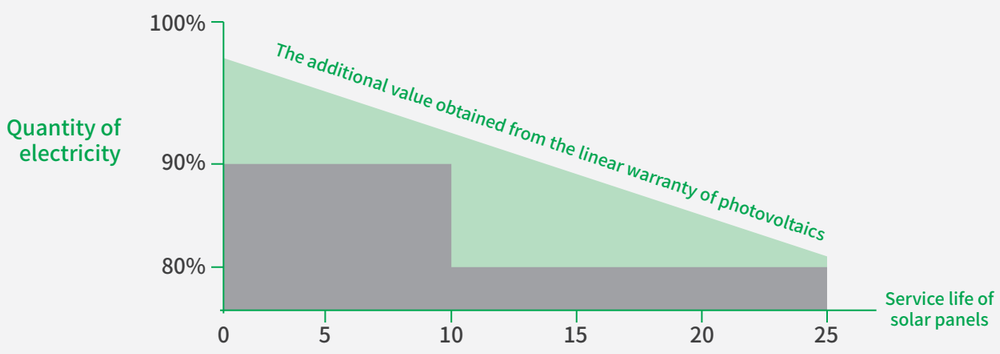
Guaranteed output power (0~+3%)

03

High performance in low light conditions, cloudy weather, early morning, evening, etc.

04

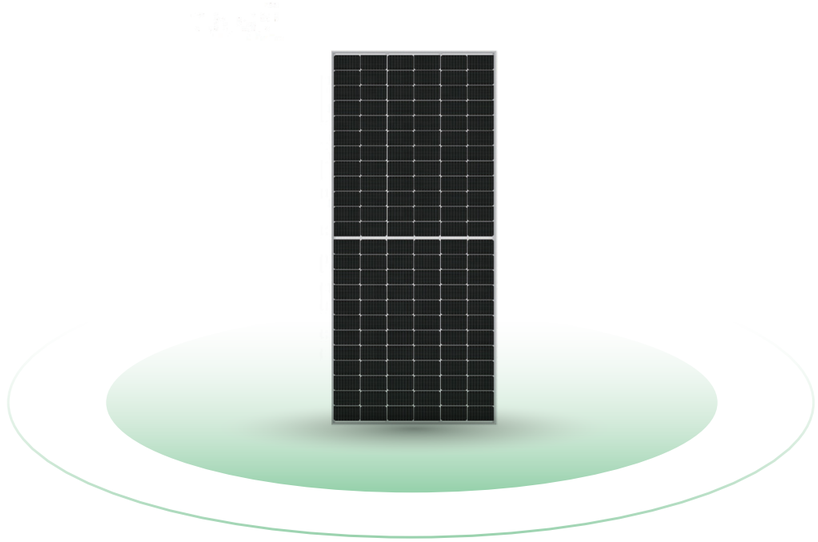
100% EL testing is performed before and after lamination, as well as EL-IV testing of finished products to provide higher quality assurance.



Product Specifications

Project	Technical parameters				
Model	LD-N-100	LD-N-150	LD-N-200	LD-N-250	LD-N-300
Maximum power—pmax (wp)	100W	150W	200W	250W	300W
Power tolerance—pmax (%)	0/+3				
Working voltage—vmp (V)	18			19	30
Operating current—imp (A)	5.55	8.33	11.11	13.1	10
Open circuit voltage—voc (V)	23.4			25.6	36
Short circuit current—isc (A)	6.11	9.16	12.22	14.4	11.2
Cell efficiency ηm (%)	22				
Measured value power test error under standard test conditions (air quality AM1.5, irradiance 1000W/㎡, battery temperature 25°C): ±3%					
Solar cells	182x182mm monocrystalline silicon			210x210mm monocrystalline silicon	
Component size	580*930*30 mm	1070*780*30 mm	1400*780*30 mm	875*1535*30 mm	1650*880*35 mm
Weight	4.6kg	8.08kg	10.14kg	13.5kg	14.5kg
Glass	3.0mm high transmittance solar glass			3.2mm high transmittance solar glass	
Frame	anodized aluminum				
Junction box	Protection class IP 65				
Packing size	595*945*135 mm	1080*790*75 mm	1410*790*75 mm	1350*890*90 mm	1660*890*90 mm
Packing quantity	4 tablets per box	2 tablets per box	2 tablets per box	2 tablets per box	2 tablets per box
Net weight	18.4kg	16.16kg	20.54kg	27kg	29kg
Gross weight	20.4kg	17.61kg	21.02kg	29.2kg	31kg
Working temperature	-40~+85°C				
Maximum system voltage	1000VDC(IEC) 600VDC(UL)				
Maximum fuse rated current	10A	13A	17A	22A	15A

N-type cell monocrystalline panel



01
Anti-PID,it can meet the highest standards in harsh environments

02
Multi-grid technology for better power output in low light conditions

03
Excellent resistance to microcracks, more balanced internal stress

Product Specifications

Project	Parameter
Model	LD-N-580
Maximum power	580W
Optimum operating voltage	43.85V
Optimum operating current	13.24A
Open circuit voltage	52.5V
Short circuit current	13.99A
Module efficiency	22.5%
Cell type	N-type monocrystalline cell
Component size	2278*1134*30mm
Weight	31.8kg
Output wire	TUV1*4mm^2

Temperature Characteristics

Project	Parameter
Nominal Module Operating Temperature (NMOT)	42±2°C
Temperature Coefficient of Pmax (%/°C)	-0.29
Temperature Coefficient of Voc (%/°C)	-0.25
Temperature Coefficient of Isc (%/°C)	0.048

Packaging

Project	Parameter
Container	40HQ
Pallet Dimensions (mm)	2320×1140×1250
Pieces per Pallet	36
Pieces per Container	720

Operating Conditions

Project	Parameter
Operating Temperature (°C)	-40 to +85
Maximum System Voltage (V)	1500 DC (IEC)
Overcurrent Protection Rating (A)	30
Power Output Tolerance (%)	0~3
Protection Class	Class II
Max. Test Load, Push/Pull (Pa)	Front 5400 / Back 2400
Max. Design Load, Push/Pull (Pa)	Front 3600 / Back 1600

