

**Product Parameters** 

***Demesilo***

# Residential Energy Storage Battery

Your Energy, Our Innovation.



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More Product Parameters

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VERSION:20241216

Household Photovoltaic  
**Solar Solutions Supplier**

BATTERY **SERIES**

ZC-W51100

BATTERY **SERIES** 5.12kWh 100Ah

**Demesilo**

51.2V-SERIES

# Wall Mounted Storage Battery

 **Space Saving**  
Small volume wall mounted

 **Plug and play**  
For easier installation

 **Safer to Use**  
High-density LiFePO4 battery

 **Stable & Reliable**  
Advanced BMS management

 **Long Battery Life**  
6000 cycles life ( DoD 80% )

 **Widely Compatible**  
Compatible with mainstream inverters



## More Features

The wall-mounted design can fully utilize the wall space and does not occupy the floor area, which is particularly suitable for families with limited space. Usually, it has a simple and modern appearance design that can integrate with home decoration and does not appear obtrusive. The wall-mounted installation method is relatively stable, reducing the risk of the battery being collided or toppled.

**Model** | **ZC-W51100**

### Basic Information

Nominal Voltage	51.2V DC
Voltage Range	44V-58.4V
Nominal Capacity	100Ah
Rated Capacity	5.12kWh
Communication Protocol	CAN / RS485 / RS232
Max. Number of Parallel Connections	15
Cycle Life	6000 cycles (@80% DoD)
Protection Mechanism	Temperature Protection/Over-current Protection/Short-circuit Protection Over-charge Protection/Over-discharge Protection/Low-voltage Protection

### Charging Parameters

Recommended Charging Current	50A
Max. Charging Current	100A
Recommended Charging Voltage	58V
Max. Charging Voltage	58.4V

### Discharging Parameters

Recommended Discharging Current	50A
Max. Discharging Current	100A
Recommended Battery Discharge Cut-off Voltage	44V
Battery Cut-off Voltage	43.2 V
Battery Recovery Voltage	48V

### General Parameters

Dimension	580*480*160mm
Gross/Net Weight	56.5kg/50kg
Shell Material	Sheet metal
Protection Rating	IP20
Installation Method	Wall mounted
Cell Type	LiFePO4

### Certification & Safety Standard

Safety Certification	CE
Temperature Safety Certification	UN38.3,Class9

### Temperature Parameters

Discharging Temperature	-20~60°C
Charging Temperature	0~55°C
Storage Temperature	-20~45°C

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Match most inverters on the market:



51.2V-SERIES

# Rack Mode Storage Battery

**Expandable**  
2-15 units can be expanded

**Plug and play**  
For easier installation

**Safer to Use**  
High-density LiFePO4 battery

**Stable & Reliable**  
Advanced BMS management

**Long Battery Life**  
6000 cycles life ( DoD 80% )

**Widely Compatible**  
Compatible with mainstream inverters



## More Features

When the household electricity demand increases, the overall energy storage capacity can be conveniently increased subsequently by increasing the number of stacked layers or the number of modules, without the need to make large-scale adjustments to the existing system layout or replace equipment. Each module is relatively independent. When adding module stacks, new modules can be quickly connected to the system to achieve a relatively smooth capacity growth.

## Model ZC-L51100

### Basic Information

Nominal Voltage	51.2V DC
Voltage Range	44V-58.4V
Nominal Capacity	100Ah
Rated Capacity	5.12kWh
Communication Protocol	CAN / RS485 / RS232
Max. Number of Parallel Connections	15
Cycle Life	6000 cycles (@80% DoD)
Protection Mechanism	Temperature Protection/Over-current Protection/Short-circuit Protection Over-charge Protection/Over-discharge Protection/Low-voltage Protection

### Charging Parameters

Recommended Charging Current	50A
Max. Charging Current	100A
Recommended Charging Voltage	58V
Max. Charging Voltage	58.4V

### Discharging Parameters

Recommended Discharging Current	50A
Max. Discharging Current	100A
Recommended Battery Discharge Cut-off Voltage	44V
Battery Cut-off Voltage	43.2V
Battery Recovery Voltage	48V

### General Parameters

Dimension	500*484*178mm
Gross/Net Weight	52kg/48.5kg
Shell Material	Sheet Metal
Protection Rating	IP20
Installation Method	Rack Mode
Cell Type	LiFePO4

### Certification & Safety Standard

Safety Certification	CE
Temperature Safety Certification	UN38.3,Class9

### Temperature Parameters

Discharging Temperature	-20~60°C
Charging Temperature	0~55°C
Storage Temperature	-20~45°C

51.2V-SERIES

# Wall Mounted/Floor Standing

**IP65 Rating**  
High Protection Rating

**Plug and play**  
Quick and simple installation

**Safer to Use**  
High-density LiFePO4 battery

**Stable & Reliable**  
Advanced BMS management

**Long Battery Life**  
6000 cycles life (DOD 80%)

**Widely Compatible**  
Compatible with mainstream invert



**Model** KNY51100

**Basic Information**

Nominal Voltage	51.2V DC
Voltage Range	44V-58.4V
Nominal Capacity	100Ah
Rated Capacity	5.12kWh
Communication Protocol	CAN / RS485 / RS232
Max. Number of Parallel Connections	15
Cycle Life	6000 cycles (@80% DOD)
Protection Mechanism	Temperature Protection/Over-current Protection/Short-circuit Protection Over-charge Protection/Over-discharge Protection/Low-voltage Protection

**Charging Parameters**

Recommended Charging Current	50A
Max. Charging Current	100A
Recommended Charging Voltage	58V
Max. Charging Voltage	58.4V

**Discharging Parameters**

Recommended Discharging Current	50A
Max. Discharging Current	100A
Recommended Battery Discharge Cut-off Voltage	44V
Battery Cut-off Voltage	43.2V
Battery Recovery Voltage	48V

**General Parameters**

Dimension	600*480*189mm
Gross/Net Weight	55kg/52.6kg
Shell Material	Sheet Metal
Protection Rating	IP65
Installation Method	Wall mounted / Floor standing
Cell Type	LiFePO4

**Certification & Safety Standard**

Safety Certification	CE
Temperature Safety Certification	UN38.3,Class9

**Temperature Parameters**

Discharging Temperature	-20~60°C
Charging Temperature	0~55°C
Storage Temperature	-20~45°C

**More Features**

The wall-mounted design can fully utilize the wall space and does not occupy the floor area, which is particularly suitable for families with limited space. Usually, it has a simple and modern appearance design that can integrate with home decoration and does not appear obtrusive. The wall-mounted installation method is relatively stable, reducing the risk of the battery being collided or toppled.

# Floor Standing Storage Battery

**IP65 Rating**  
High Protection Rating

**Plug and play**  
Quick and simple installation

**Safer to Use**  
High-density LiFePO4 battery

**Stable & Reliable**  
Advanced BMS management

**Long Battery Life**  
6000 cycles life (DOD 80%)

**Widely Compatible**  
Compatible with mainstream invert



## More Features

Compared with wall-mounted methods and others, there are no special requirements for the installation wall. If there is a relatively open floor space indoors, it can be placed. Because it is placed on the ground, the supporting structure is usually more stable. When designing the integration of a battery pack with a large capacity, it is easier to achieve physical structural stability and safety, which can meet the higher demand for energy storage capacity of large families or high-energy-consuming families.

**Model** | **KNY51200**

### Basic Information

Nominal Voltage	51.2V DC
Voltage Range	44V-58.4V
Nominal Capacity	200Ah
Rated Capacity	10.24kWh
Communication Protocol	CAN / RS485 / RS232
Max. Number of Parallel Connections	15
Cycle Life	4000 cycles (@80% DoD)
Protection Mechanism	Temperature Protection/Over-current Protection/Short-circuit Protection Over-charge Protection/Over-discharge Protection/Low-voltage Protection

### Charging Parameters

Recommended Charging Current	100A
Max. Charging Current	200A
Recommended Charging Voltage	58V
Max. Charging Voltage	58.4V

### Discharging Parameters

Recommended Discharging Current	100A
Max. Discharging Current	200A
Recommended Battery Discharge Cut-off Voltage	44V
Battery Cut-off Voltage	43.2V
Battery Recovery Voltage	48V

### General Parameters

Dimension	800*580*220mm
Gross/Net Weight	120kg/101kg
Shell Material	Sheet Metal
Protection Rating	IP65
Installation Method	Floor type
Cell Type	LiFePO4

### Certification & Safety Standard

Safety Certification	CE
Temperature Safety Certification	UN38.3,Class9

### Temperature Parameters

Discharging Temperature	-20~60°C
Charging Temperature	0~55°C
Storage Temperature	-20~45°C

# BATTERY **SERIES**

KNY51300

51.2V-SERIES

## Floor Standing Storage Battery

**IP65 Rating**  
High Protection Rating

**Plug and play**  
Quick and simple installation

**Safer to Use**  
High-density LiFePO4 battery

**Stable & Reliable**  
Advanced BMS management

**Long Battery Life**  
6000 cycles life (DOD 80%)

**Widely Compatible**  
Compatible with mainstream invert



### More Features

Compared with wall-mounted methods and others, there are no special requirements for the installation wall. If there is a relatively open floor space indoors, it can be placed. Because it is placed on the ground, the supporting structure is usually more stable. When designing the integration of a battery pack with a large capacity, it is easier to achieve physical structural stability and safety, which can meet the higher demand for energy storage capacity of large families or high-energy-consuming families.

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# BATTERY **SERIES** 15.36kWh 300Ah

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## Model | KNY51300

### Basic Information

Nominal Voltage	51.2V DC
Voltage Range	44V-58.4V
Nominal Capacity	300Ah
Rated Capacity	15.36kWh
Communication Protocol	CAN / RS485 / RS232
Max. Number of Parallel Connections	15
Cycle Life	6000 cycles (@80% DoD)
Protection Mechanism	Temperature Protection/Over-current Protection/Short-circuit Protection Over-charge Protection/Over-discharge Protection/Low-voltage Protection

### Charging Parameters

Recommended Charging Current	100A
Max. Charging Current	200A
Recommended Charging Voltage	58V
Max. Charging Voltage	58.4V

### Discharging Parameters

Recommended Discharging Current	100A
Max. Discharging Current	200A
Recommended Battery Discharge Cut-off Voltage	44V
Battery Cut-off Voltage	43.2V
Battery Recovery Voltage	48V

### General Parameters

Dimension	800*580*255mm
Gross/Net Weight	150kg/131kg
Shell Material	Sheet Metal
Protection Rating	IP65
Installation Method	Floor type
Cell Type	LiFePO4

### Certification & Safety Standard

Safety Certification	CE
Temperature Safety Certification	UN38.3,Class9

### Temperature Parameters

Discharging Temperature	-20~60°C
Charging Temperature	0~55°C
Storage Temperature	-20~45°C

Match most inverters on the market:



# BATTERY SERIES

KNY-HV10250

HIGH VOLTAGE

## Stacked Battery System

**High-voltage**  
To meet more electricity demand

**Modular Design**  
For easy maintenance

**Safer to Use**  
High-density LiFePO4 battery

**Stable & Reliable**  
Advanced BMS management.

**Long Battery Life**  
5000 cycles life (DoD 80%)

**High Conversion Rate**  
Maximize energy utilization



### Application Scenario

**Families with high requirements for energy storage capacity:**

High-voltage energy storage batteries can usually provide larger energy storage capacity, which can meet the long-term usage needs of more electrical appliances in the family.

**Families with high-power electrical appliances or equipment:**

For example, high-power electrical appliances such as central air conditioners and electric water heaters require higher voltages and currents to support their operation, and high-voltage energy storage batteries can better meet the needs of these devices.

BATTERY SERIES 10.24kWh/15.36kWh/20.48kWh/25.6kWh



### Model KNY-HV10250

#### Basic information

	2	3	4	5
Number of battery modules	2	3	4	5
Nominal Battery Energy	10.24kWh	15.36kWh	20.48kWh	25.6kWh
Nominal Capacity	50Ah	50Ah	50Ah	50Ah
Nominal Voltage (Single Battery)	102.4V	102.4V	102.4V	102.4V
Nominal Voltage	204.8V	307.2V	409.6V	512V
Max Continuous Discharge Power	10.24kW	15.36kW	20.48kW	25.6kW
Max Continuous Charge Power	5.12kW	7.68kW	10.24kW	12.8kW
Dimension[W*D*H](mm)	765*420*646	765*420*826	765*420*1006	765*420*1186
Gross/Net Weight	150.4/147.4kg	207.2/204.2kg	264/261kg	320.8/317.8kg
High-voltage Box Net Weight	15.8kg	15.8kg	15.8kg	15.8kg
Battery Net Weight	113.6kg	170.4kg	226.8kg	283.2kg
Base Net Weight	18kg	18kg	18kg	18kg

#### Other Parameters

Charging Temp. Range	0~50°C
Discharging Temp. Range	-10~55°C
Communication Protocol	CAN
Cycle Life	5000 Cycles (@80% DOD)
Protection Level	IP65
Color	White
Alarms	Overcharge/Overdischarge/Overcurrent/Overtemperature/Short Circuit
Advantages	Can be used in both grid and off-grid setups,compact design,modular expansion
Certification	UN38.3,Class9 / CE



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Match most inverters on the market:



# BATTERY SERIES

KNY-HV102100

HIGH VOLTAGE

## Stacked Battery System

**High-voltage**  
To meet more electricity demand

**Modular Design**  
For easy maintenance

**Safer to Use**  
High-density LiFePO4 battery

**Stable & Reliable**  
Advanced BMS management.

**Long Battery Life**  
5000 cycles life (DoD 80%)

**High Conversion Rate**  
Maximize energy utilization



### Application Scenario

**Families with high requirements for energy storage capacity:**

High-voltage energy storage batteries can usually provide larger energy storage capacity, which can meet the long-term usage needs of more electrical appliances in the family.

**Families with high-power electrical appliances or equipment:**

For example, high-power electrical appliances such as central air conditioners and electric water heaters require higher voltages and currents to support their operation, and high-voltage energy storage batteries can better meet the needs of these devices.

BATTERY SERIES 20.48kWh-61.44kWh



### Model KNY-HV102100

#### Basic information

Number of battery modules	2	3	4
Nominal Battery Energy	20.48kWh	30.72kWh	40.96kWh
Nominal Capacity	100Ah	100Ah	100Ah
Nominal Voltage (Single Battery)	102.4V	102.4V	102.4V
Nominal Voltage	204.8V	307.2V	409.6V
Max Continuous Discharge Power	20.48kW	30.72kW	40.96kW
Max Continuous Charge Power	20.48kW	30.72kW	40.96kW
Dimension[W*D*H](mm)	800*540*646	800*540*826	800*540*1006
Net Weight	226kg	316kg	406kg
High-voltage Box Net Weight	20.5kg	20.5kg	20.5kg
Battery Net Weight	180kg	270kg	360kg
Base Net Weight	25.5kg	25.5kg	25.5kg

#### Other Parameters

Charging Temp. Range	0~50°C
Discharging Temp. Range	-10~55°C
Communication Protocol	CAN
Cycle Life	5000 Cycles (@80% DOD)
Protection Level	IP65
Color	White
Alarms	Overcharge/Overdischarge/Overcurrent/Overtemperature/Short Circuit
Advantages	Can be used in both grid and off-grid setups,compact design,modular expansion
Certification	UN38.3,Class9 / CE



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# BATTERY SERIES

KNY12100 / KNY12200

12V-SERIES

## Portable Storage Battery

 **IP20 Protection**  
Corrosion resistant metal materials

 **Portable Handle**  
For easy movement

 **Quality Cells**  
High-density LiFePO4 battery

 **Safer to Use**  
Equipped with protection functions

 **Widely Compatible**  
Compatible with mainstream inverters

 **Stable & Reliable**  
Advanced BMS management



### More Features

Light in weight, it is convenient for carrying and mobile use, which is of great significance especially for devices that need to be used while moving. Small in size, it enables portable devices to be designed more compact and does not occupy too much space. Affordable in price, it is suitable for emergency use in most families.

- Home use
- RV use
- Marine use
- Boat use
- Outdoor camping
- Ice cream maker



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# BATTERY SERIES 1.28kWh / 2.56kWh



Model	KNY12100	KNY12200
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### Basic Information

Nominal Voltage	12.8Vdc	
Voltage Range	11V-14.6V	
Nominal Capacity	100Ah	200Ah
Rated Capacity	1.28kWh	2.56kWh
Cycle Life	3000(@80% DoD)	

### Charging Parameters

Recommended Charging Current	50A	100A
Max. Charging Current	100A	200A
Recommended Charging Voltage	12.8V	
Max. Charging Voltage	14.6V	

### Discharging Parameters

Recommended Discharging Current	50A	100A
Max. Discharging Current	100A	200A

### Physical Parameters

Dimensions	295*203*230mm	522*245*225mm
Net Weight	10kg	20kg
Shell Material	Plastic	
Protection Rating	IP20	
Installation Method	Portable	
Cell Type	LiFePO4	

### Certification & Safety Standard

Safety Certification	CE
Temperature Safety Certification	UN38.3,Class9

### Temperature Parameters

Discharging Temperature	-20~60°C
Charging Temperature	0~55°C
Storage Temperature	-20~45°C

# BATTERY SERIES

KNY24100 / DS24200

24V-SERIES

## Portable Storage Battery

 **IP20 Protection**  
Corrosion resistant metal materials

 **Portable Handle**  
For easy movement

 **Quality Cells**  
High-density LiFePO4 battery

 **Safer to Use**  
Equipped with protection functions

 **Widely Compatible**  
Compatible with mainstream inverters

 **Stable & Reliable**  
Advanced BMS management



### More Features

Light in weight, it is convenient for carrying and mobile use, which is of great significance especially for devices that need to be used while moving. Small in size, it enables portable devices to be designed more compact and does not occupy too much space. Affordable in price, it is suitable for emergency use in most families.

- Home use
- RV use
- Marine use
- Boat use
- Outdoor camping
- Ice cream maker

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# BATTERY SERIES 2.56kWh / 5.12kWh

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Model	DS 24100	DS 24200
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### Basic Information

Nominal Voltage	25.6Vdc	
Voltage Range	20V-29.2V	
Nominal Capacity	100Ah	200Ah
Rated Capacity	2.56kWh	5.12kWh
Cycle Life	3000(@80% DoD)	

### Charging Parameters

Recommended Charging Current	50A	100A
Max. Charging Current	100A	200A
Recommended Charging Voltage	25.6V	
Max. Charging Voltage	29.2V	

### Discharging Parameters

Recommended Discharging Current	50A	100A
Max. Discharging Current	100A	200A

### Physical Parameters

Dimensions	395*255*165mm	500*360*178mm
Net Wight	21.3kg	42.3kg
Shell Material	Sheet Metal	
Protection Rating	IP20	
Installation Method	Portable	
Cell Type	LiFePO4	

### Certification & Safety Standard

Safety Certification	CE
Temperature Safety Certification	UN38.3,Class9

### Temperature Parameters

Discharging Temperature	-20~60°C
Charging Temperature	0~55°C
Storage Temperature	-20~45°C