



Knyee Energy belongs to the CHILWEE Group, one of the largest battery companies in China.
CHILWEE Group has 32 industrial bases and more than 100 companies at home and abroad, which are located in 9 provinces including Zhejiang, Jiangsu, Anhui, Jiangxi, Henan, Shandong, Hebei, Guangxi, Hunan, as well as Germany, France, etc.



www.knyee-energy.com

Group Honors | Top 500_2023 Global New Energy Enterprises Top 10_New Energy Battery Industry in China China Patent Gold Award
C H I L W E E | Top 500_Manufacturers in China Top 500_Private enterprises in China China Grand Awards for Industry



ALL ABOUT SOLUTIONS FOR ENERGY INDEPENDENCE

—
FOCUS ON SOLAR ENERGY STORAGE



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SOLAR POWER STORAGE



ABOUT US

Knyee Energy belongs to Chilwee Group (Stock code: 00951HK), one of the largest battery companies in China.

We are a high-tech enterprise focusing on the production of energy storage batteries, mainly for research and development, production, sales of residential energy storage microgrid and commercial energy storage products, also providing intelligent total solutions.

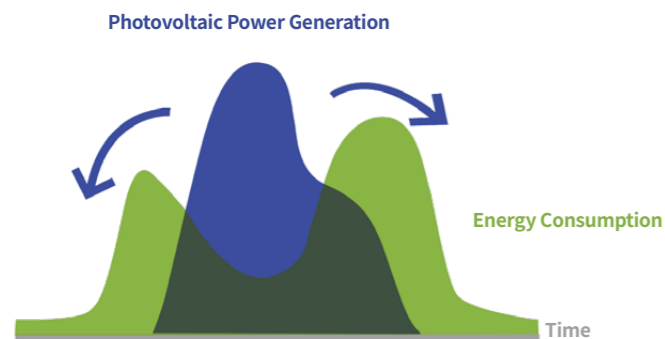
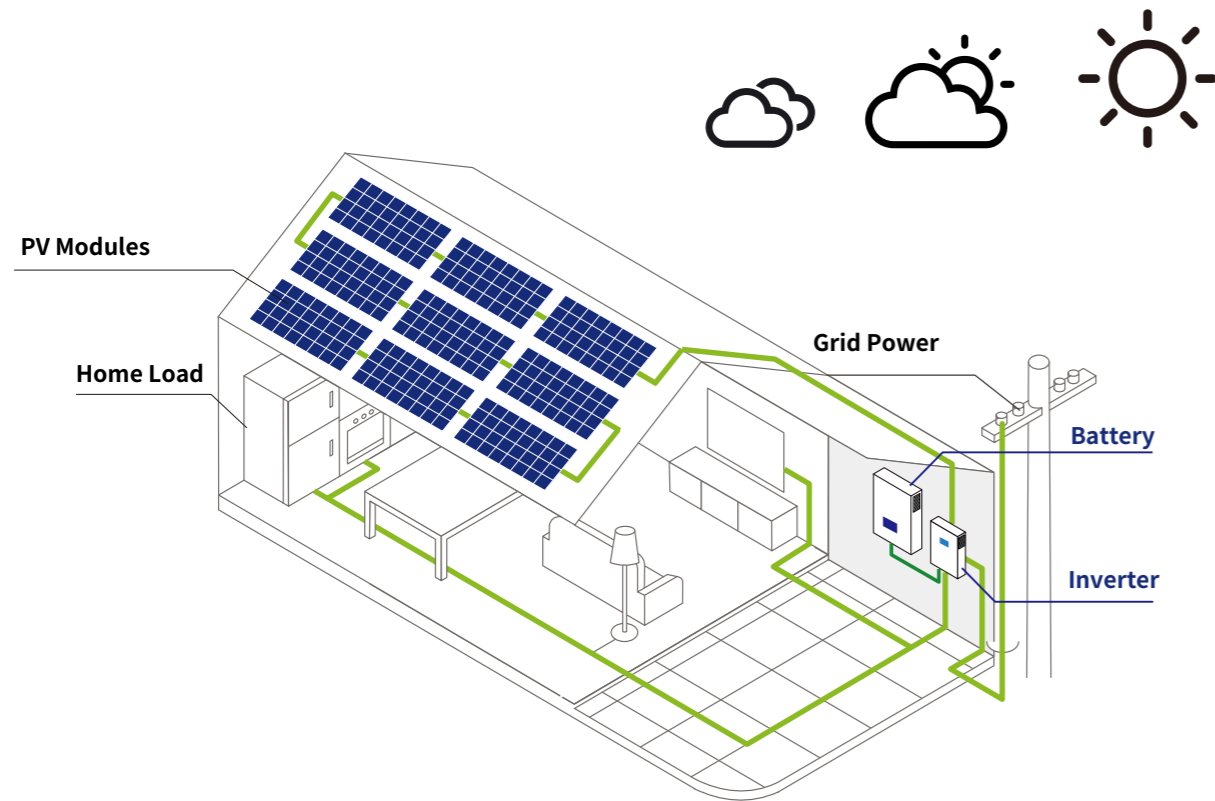
In order to meet the needs of industry trends and target market customers, Knyee Energy introduces professional and technical personnel to adhere to independent innovation, constantly enrich the company's product line, adhere to the R&D of new technologies, new products. At present, our company has more than 100 employees, including 30 scientific researchers and 5 senior engineers. The R&D team has more than ten years of experience in lithium-ion battery R&D and production management. Knyee Energy products are widely used in portable energy storage, residential energy storage, industrial and commercial energy storage and other fields.

Knyee Energy will always be committed to the research and development of a more environmentally friendly, energy-saving lithium-ion battery products with longer service life and stronger battery life. In addition, we will continue to expand and improve battery production of R&D capabilities while ensuring product quality.

Knyee Energy relies on new energy storage technology to promote global zero emissions. Our goal is to create a healthy new energy ecosystem!

Application Scenarios

Developed For More Families



Photovoltaic energy is an unstable energy source, and the peak of power generation does not match the peak of daily electricity consumption.

So we need solar energy storage and control systems to regulate the distribution of residential electric energy and convert solar energy into stable AC energy for residential load use.



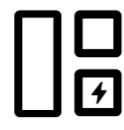
Safety Promotion



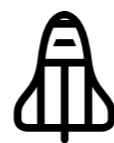
Easy to Install



Uninterrupted

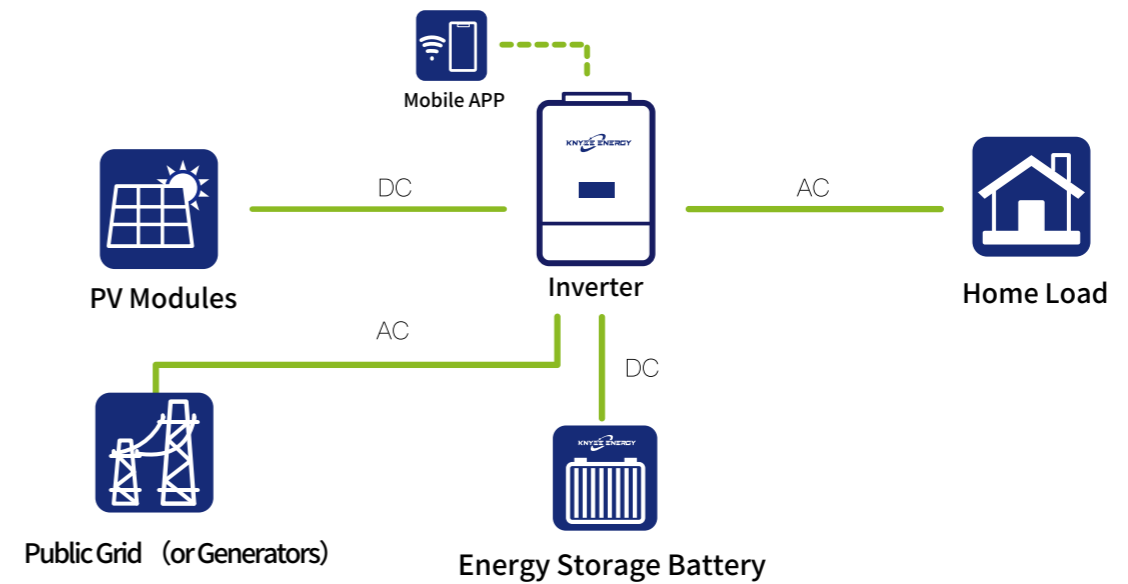


Extensible



Higher Efficient

System Connection



PV Modules

Solar modules convert light energy into direct current electricity through the photovoltaic, which is the energy source for the entire system.

Public Grid (AC input)

Grid power or generators can be used as an energy supplement to photovoltaic systems, charging batteries or powering loads when solar energy is lacking, and Some models support mixed loading of photovoltaic and grid power, or feed excess power back to the grid.

PV Energy Storage Inverter

The photovoltaic energy storage inverter is the energy conversion control center of the entire household photovoltaic system. Its most basic function is to convert unstable photovoltaic power into stable alternating current to supply to household loads, and store excess electrical energy in energy storage batteries.

Energy Storage Battery

Batteries are used to store energy, for example, photovoltaic energy generated during the day for use at night, or to provide emergency power to homes in the event of a grid failure.

Home Load (AC output)

For the electrical equipment of the whole family, please choose an inverter with appropriate specifications according to the operating power required.

RACK MODE STORAGE BATTERY

ZC-L 51100



- 2-15 units can be used in parallel
- Convenient to PLUG IN/OUT
- 6000 cycles life
- Precise Battery Management Technology



Stable Power Supply



Precise Management



High Utilization



Long Life Cycle

- High-density LiFePO4 battery, safer to use
- Possess industry-leading BMS technology
- Compatible with mainstream inverters
- DOD 80% ,extend battery life

Model	ZC-L 51100
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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	46kg/43.5kg
Shell Material	Sheet Metal
Protection Rating	IP20
Installation Method	Rack Mode
Cell Type	LiFePO4

Certification & Safety Standard

Safety Certification	CE
Transportation Safety Certification	UN38.3,Class9

Temperature Parameters

Discharging Temperature	-20~65°C
Charging Temperature	0~55°C
Storage Temperature	-20~45°C

WALL MOUNTED STORAGE BATTERY

ZC-W 51100



- 6000 cycles life
- Minimalist design, Exquisite appearance
- Reliable quality and low maintenance rate
- Precise Battery Management Technology
- High-density LiFePO4 battery, safer to use
- Wall-mounted installation, small size but large capacity
- Compatible with mainstream inverters
- DOD 80% , extend battery life



Stable Power Supply



Precise Management



High Utilization



Long Life Cycle

Model | ZC-W 51100

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
Transportation Safety Certification	UN38.3,Class9

Temperature Parameters

Discharging Temperature	-20~65°C
Charging Temperature	0~55°C
Storage Temperature	-20~45°C

STACKED ENERGY STORAGE SYSTEM

ZC-S 51100



- All-in-one installation, plug and play any time
- High-density LiFePO4 battery, 6000 cycles life
- 2-5 units can be used in parallel
- High energy conversion rate
- DOD 80%,extend battery life



Stable Power Supply



Precise Management



High Utilization



Long Life Cycle

- Precise Battery Management Technology
- Wheel design, easy to move
- Noise less than 60 decibels
- 3-stage timing charging and discharging
- Quick and easy installation

Model

ZC-S 51100

Basic Information

Single Module Capacity	5.12kWh			
Module Number	1	2	3	4
Rated Capacity	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Nominal Voltage	51.2V			
Working Voltage	44V-58.4V			
Nominal Discharge Current	100A	200A	300A	400A
Nominal Charging Current	50A	100A	150A	200A
Cycle Life	6000 cycles (@80% DoD)			
Humidity	20%-60%			
Installation Method	Stacked mode			
Protection Rating	IP20			
Communication Protocol	CAN/RS485/RS232 (WIFI optional)			
Dimension(Battery+inverter+base)	440*600*500mm	440*600*700mm	440*600*900mm	440*600*1100mm
Gross/Net Weight (Battery Part)	53.5kg/49kg	107kg/98kg	160.5kg/147kg	214kg/196kg
Cell Type	LFP			
Battery Rated Input Voltage	48Vdc			
Hybrid Max. Charging Current	80A			
Battery Pack Voltage Range	40Vdc-60Vdc			

Model

KNY5000 (inverter)

Basic Information

Max. PV Open Circuit Voltage	500Vdc
PV Working Voltage Range	120V-500Vdc
MPPT Voltage Range	120V-450Vdc
Max. PV Input Current	22A
Max. PV Input Power	5500W
Max. PV Charging Current	80A
Gross/Net Weight (Inverter Part)	19.5kg/16.5kg

AC Parameters (Grid-connected Side)

Max. Charging Current	60A
Rated Input Voltage	220V/230Vac
Input Voltage Range	170Vac-280Vac
Frequency	50Hz/60Hz
Charging Efficiency (bypass and inverter)	>95%
Switching Time	10ms
Max. Bypass Overload Current	40A

AC Output (Grid-connected Side)

Output Voltage Waveform	Pure Sine Wave
Rated Output Voltage	230VAC±5%
Rated Output Power	5000W
Peak Power	10000VA

WALL-MOUNTED ENERGY STORAGE BATTERY

KNY 51100



- IP65 High level protection
- Convenient to PLUG IN/OUT
- 6000 cycles life
- Precise Battery Management Technology
- High-density LiFePO4 battery, safer to use
- Possess industry-leading BMS technology
- Compatible with mainstream inverters
- DOD 80% ,extend battery life



Stable Power Supply



Precise Management



High Utilization



Long Life Cycle

Model	KNY 51100
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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 type
Cell Type	LiFePO4

Certification & Safety Standard

Safety Certification	CE
Transportation Safety Certification	UN38.3,Class9

Temperature Parameters

Discharging Temperature	-20~65°C
Charging Temperature	0~55°C
Storage Temperature	-20~45°C

FLOOR TYPE ENERGY STORAGE BATTERY

KNY 51200



- 10kWh large capacity to meet more electricity needs
- Convenient to PLUG IN/OUT
- 6000 cycles life
- Precise Battery Management Technology
- High-density LiFePO4 battery, safer to use
- Possess industry-leading BMS technology
- Compatible with mainstream inverters
- DOD 80% , extend battery life



Stable Power Supply



Precise Management



High Utilization



Long Life Cycle

Model KNY 51200

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

Certification & Safety Standard

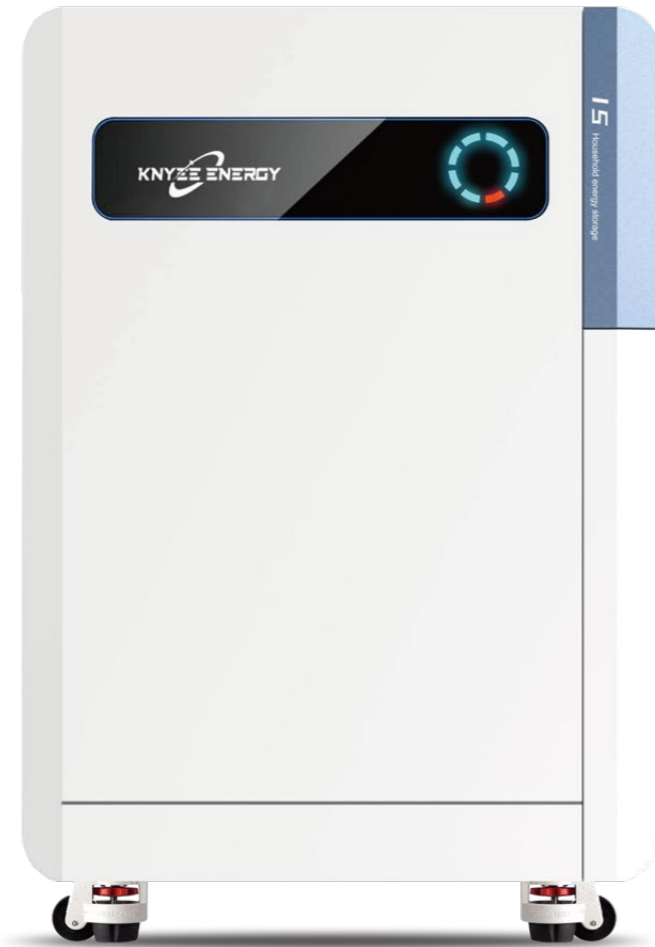
Safety Certification	CE
Transportation Safety Certification	UN38.3,Class9

Temperature Parameters

Discharging Temperature	-20~65°C
Charging Temperature	0~55°C
Storage Temperature	-20~45°C

FLOOR TYPE ENERGY STORAGE BATTERY

KNY 51300



- 15kWh large capacity to meet more electricity needs
- Convenient to PLUG IN/OUT
- 6000 cycles life
- Precise Battery Management Technology
- High-density LiFePO4 battery, safer to use
- Possess industry-leading BMS technology
- Compatible with mainstream inverters
- DOD 80% , extend battery life



Stable Power Supply



Precise Management



High Utilization



Long Life Cycle

Model KNY 51300

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

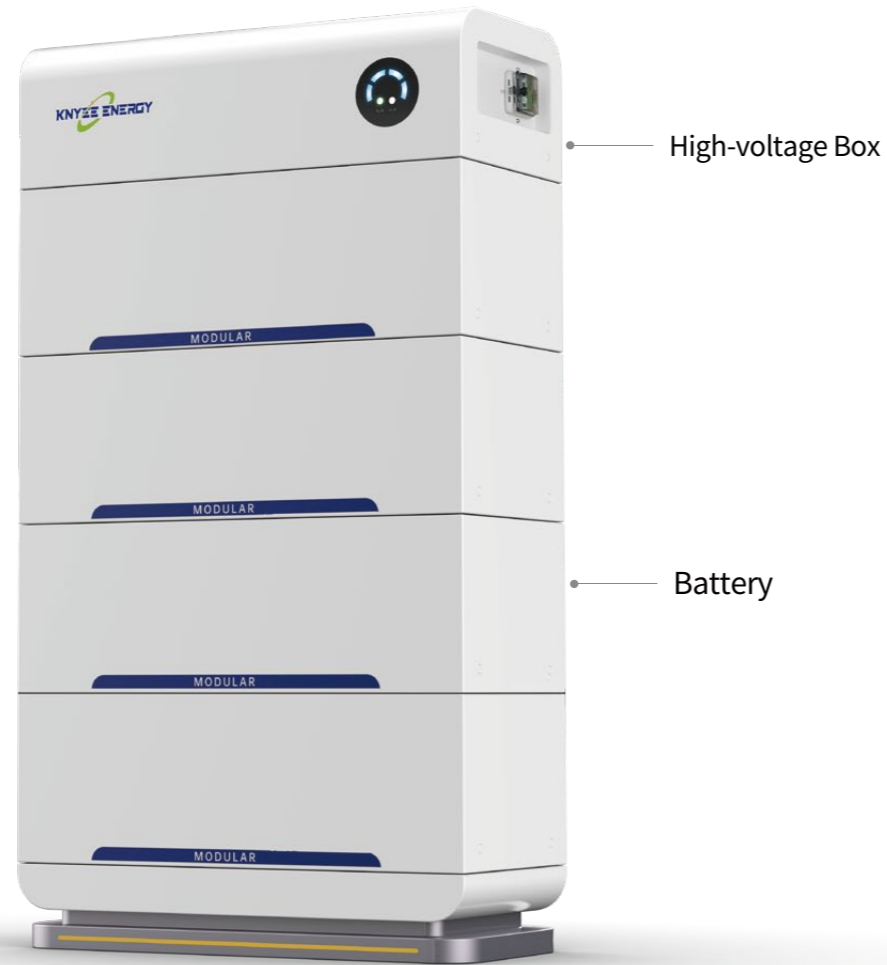
Safety Certification	CE
Transportation Safety Certification	UN38.3,Class9

Temperature Parameters

Discharging Temperature	-20~65°C
Charging Temperature	0~55°C
Storage Temperature	-20~45°C

HIGH VOLTAGE STORAGE SYSTEM

ZC-HV10250



- High-voltage inverter to meet more electricity demand
- Large-capacity battery, smaller size but longer life
- High-density LiFePO4 battery, 5000 cycles life
- High energy conversion rate
- Reliable quality and low maintenance rate
- Precise battery management technology
- Modular design for easy maintenance
- Quick and easy installation



Stable Power Supply



Precise Management



High Utilization



Long Life Cycle

Model ZC-HV10250

Basic information

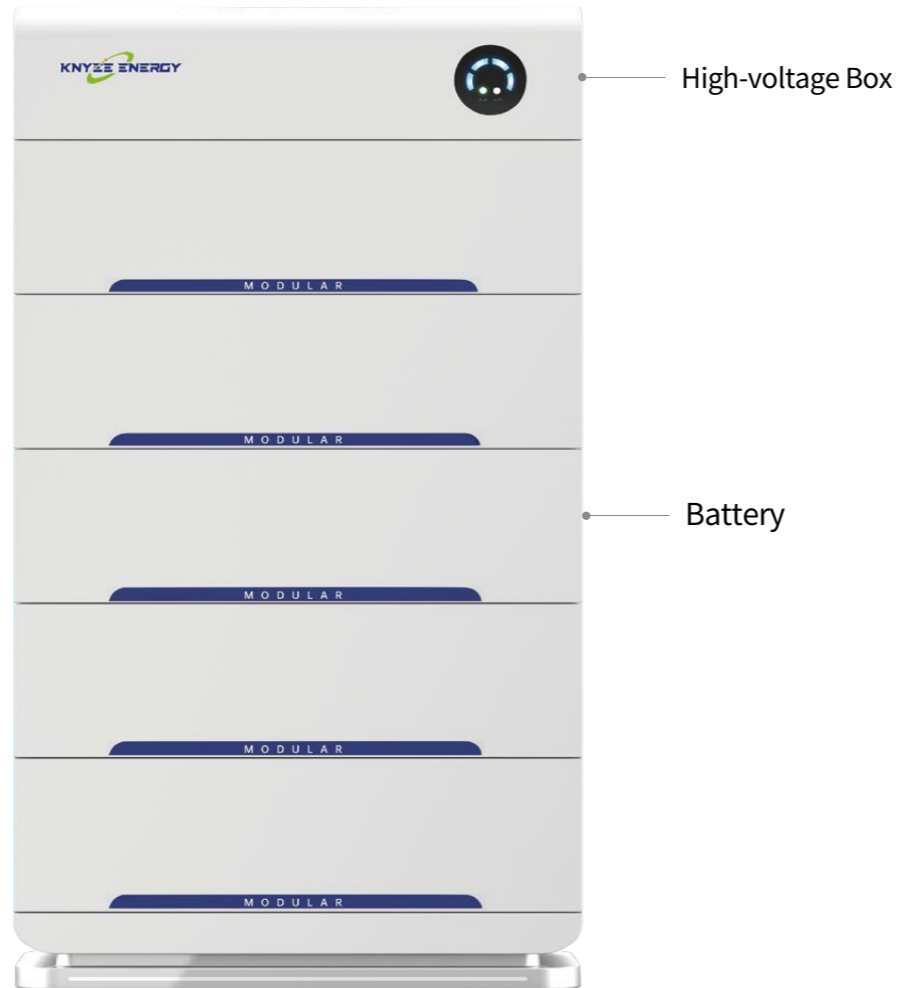
	2	3	4	5
Number of batteries	2	3	4	5
Nominal Battery Energy	10.24kWh	15.36kWh	20.48kWh	25.6kWh
Nominal Capacity	50Ah	50Ah	50Ah	50Ah
Nominal Voltage (Single Battery)	102.4V	102.4V	102.4V	102.4V
Nominal Voltage	204.8V	307.2V	409.6V	512V
Max Continuous Discharge Power	10.24kW	15.36kW	20.48kW	25.6kW
Max Continuous 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	148.8/145.8kg	204.8/201.8kg	260.8/257.8kg	316.8/313.8kg
High-voltage Box Net Weight	15.8kg	15.8kg	15.8kg	15.8kg
Battery Net Weight	112kg	168kg	224kg	280kg
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

HIGH VOLTAGE STORAGE SYSTEM

ZC-HV102100



- High-voltage inverter to meet more electricity demand
- Large-capacity battery, smaller size but longer life
- High-density LiFePO4 battery, 5000 cycles life
- High energy conversion rate
- Reliable quality and low maintenance rate
- Precise battery management technology
- Modular design for easy maintenance
- Quick and easy installation



Stable Power Supply



Precise Management



High Utilization



Long Life Cycle

Model

KNY-HV102100

Basic information

	2	3	4	5	6
Number of batteries	2	3	4	5	6
Nominal Battery Energy	20.48kWh	30.72kWh	40.96kWh	51.20kWh	61.44kWh
Nominal Capacity	100Ah	100Ah	100Ah	100Ah	100Ah
Nominal Voltage (Single Battery)	102.4V	102.4V	102.4V	102.4V	102.4V
Nominal Voltage	204.8V	307.2V	409.6V	512V	614.4V
Max Continuous Discharge Power	20.48kW	30.72kW	40.96kW	51.20kW	61.44kW
Max Continuous Charge Power	20.48kW	30.72kW	40.96kW	51.20kW	61.44kW
Dimension[W*D*H](mm)	800*540*646	800*540*826	800*540*1006	800*540*1186	800*540*1366
Net Weight	226kg	316kg	406kg	496kg	586kg
High-voltage Box Net Weight	20.5kg	20.5kg	20.5kg	20.5kg	20.5kg
Battery Net Weight	180kg	270kg	360kg	450kg	540kg
Base Net Weight	25.5kg	25.5kg	25.5kg	25.5kg	25.5kg

Other specifications

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

12V PORTABLE STORAGE BATTERY

KNY12100 / KNY12200



- Portable Handle, for easy movement
- Convenient to PLUG IN/OUT
- 3000 cycles life
- Precise Battery Management Technology



Stable Power Supply



Precise Management



High Utilization



Long Life Cycle

- High-density LiFePO4 battery, safer to use
- Possess industry-leading BMS technology
- Compatible with mainstream inverters
- DoD 80% ,extend battery life

Model	KNY 12100	KNY 12200
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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
Transportation Safety certification	UN38.3,Class9

Temperature Parameters

Discharging Temperature	-20~65°C
Charging Temperature	0~55°C
Storage Temperature	-20~45°C

24V PORTABLE STORAGE BATTERY

KNY24100 / KNY24200



- Portable Handle, for easy movement
- Convenient to PLUG IN/OUT
- 3000 cycles life
- Precise Battery Management Technology

- High-density LiFePO4 battery, safer to use
- Possess industry-leading BMS technology
- Compatible with mainstream inverters
- DoD 80% ,extend battery life



Stable Power Supply



Precise Management



High Utilization

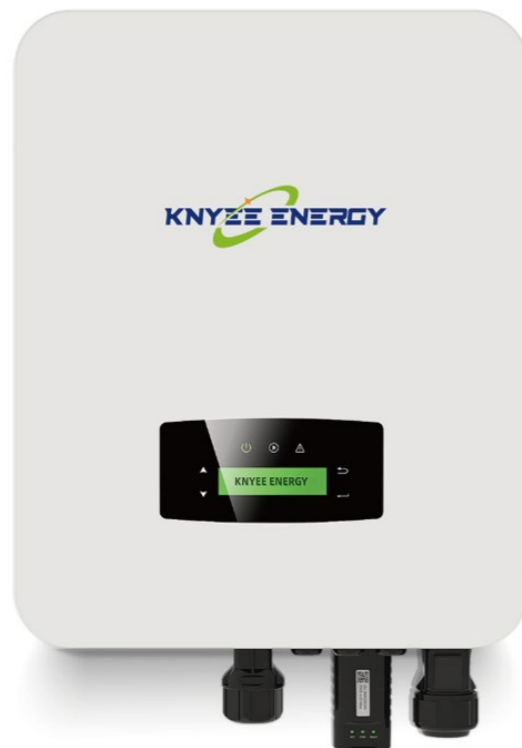


Long Life Cycle

Model	KNY 24100	KNY 24200
Basic Information		
Nominal Voltage	25.6Vdc	
Voltage Range	22V-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 Weight	21.6kg	42.3kg
Shell Material	Sheet Metal	
Protection Rating	IP20	
Installation Method	Portable	
Cell Type	LiFePO4	
Certification & Safety Standard		
Safety Certification	CE	
Transportation Safety Certification	UN38.3,Class9	
Temperature Parameters		
Discharging Temperature	-20~65°C	
Charging Temperature	0~55°C	
Storage Temperature	-20~45°C	

HYBRID INVERTER (Single-phase 5-6kw)

LH5K-SL / LH6K-SL



- Support 1.5 times PV over-allocation
- 2 MPPT , meet more electricity demand
- <10ms seamless switching
- Surge Protection, no fear of instantaneous voltage
- 3-stage timing charging and discharging function
- Voltage total harmonic distortion is less than 3%
- Support up to 6 units in parallel
- Real-time monitoring and remote upgrade
- MAX charge and discharge current: 120A
- Maximum efficiency 97.6%
- Noise less than 25 decibels
- Standby consumption is less than 10w



Stable Power Supply



Precise Management



High Utilization



Long Product Life

Model	LH5K-SL	LH6K-SL
Basic Information		
Max.Input Power	7.5kW	9.0kW
Full Load MPPT Voltage Range	150-500V	170-500V
MPPT Voltage Range	80-500V	
Max.Input Voltage	550V	
Recommended DC Input Voltage	360V	
Starting Voltage	100V	
Max.Input Current	18.5A*2	
Max.Short Circuit Current	26A*2	
MPPT/Number of DC Terminals	2/2	
Gross/Net Weight	23.5kg/20.2kg	

Battery Parameters		
Max. Charge/Discharge Power	4.8kW	
Max. Charge/Discharge Current	120A	
Battery Rated Voltage	51.2V	
Battery Voltage Range	40-60V	
Compatible Battery Type	Lithium Battery, Lead-acid Battery, etc.	

On-grid Output Parameters		
Max. Continuous Current	23.0A	28.0A
Max. Continuous Power	5.0kVA	6.0kVA
Rated Grid Current	22.8/21.8A	27.3/26.1A
Rated Grid Voltage	198V to 242V @ 220V / 207V to 253V @ 230V	
Rated Grid Frequency	50/60Hz	
Power Factor	0.999(+/-0.8)	
Voltage Total Harmonic Distortion	<3%	

Off-grid Output Parameters		
Max. Continuous Current	23.0A	28.0A
Max. Continuous Power	5.0kVA	6.0kVA
Max. Peak Current(10 min)	34.1/32.7A	41.0/39.2A
Max. Peak Power(10 min)	7.5kVA	9.0kVA
Rated AC Current	22.8/21.8A	27.3/26.1A
Rated AC Power L-N	220/230V	
Rated AC Frequency	50/60Hz	
Switching Time	<10ms	
Voltage Total Harmonic Distortion	<3%	

HYBRID INVERTER (Three-phase 8-10kW)

LH8K-TH / LH10K-TH



- Voltage range 150-850V
- The maximum current for one string is 40A
- 100% unbalanced load
- <10ms seamless switching to protect appliances
- Support 1.5 times PV over-allocation
- Starting voltage 160V
- Maximum efficiency 98%
- Noise less than 30 decibels
- Standby consumption is less than 5w
- Protection class IP65



Stable Power Supply



Precise Management



High Utilization



Long Product Life

Model	LH8K-TH	LH10K-TH
PV Input		
Max. Input Power	12kW	15kW
Full Load MPPT Voltage Range	200-850V	500-850V
MPPT Voltage Range	150-850V	
Max. Input Voltage	1000V	
Rated DC Input Voltage	620V	
DC Input Voltage Range	150-1000V	
Starting Voltage	160V	
Max. Input Current	20A*2	
Max. Short Circuit Current	30A*2	
MPPT/Number of DC Terminals	2/2	
Battery Parameters		
Max. Charge/Discharge Power	8kW	10kW
Battery Voltage Range	150-800V	
Max. Charge/Discharge Current	30A	
Charging Curve	3 Stages	
Compatible Battery Type	Lithium Battery, Lead-acid Battery, etc.	
Grid Output Parameters		
Rated Output Power	8kW	10kW
Max. Input/Output Power	12/8.8kVA	15/11kVA
Max. AC Output Current	13.5A	17A
Rated AC Voltage	230/400V	
Rated AC Frequency	50/60Hz	
Power Factor	1(+/-0.8)	
Voltage Total Harmonic Distortion	<3%	
Off-grid Output Parameters		
Rated Output Power	8000VA	10000VA
Rated Voltage	220/230V	
Rated Frequency	50/60Hz	
Rated Output Current	11.6A	14.5A
Max. Power	8800VA, 60s	11000VA, 60s
Switching Time	<10ms	
Voltage Total Harmonic Distortion	<3%	
General Parameters		
Dimensions (W*H*D mm)	558*535*260mm	
Net Weight	26kg	
Protection Degree	IP65, Indoor Only	
Operating Temperature Range	-20°C~60°C	
Noise	< 30 dB	
Cooling Method	Intelligent Fan	
Certification & Safety Standard	NRS97, G98/G99, EN50549-1, C10/C11, AS 4777, VDE-AR-N4105, VDE0126, IEC62040, IEC62109-1, IEC62109-2 IEC62109-2	

OFF-GRID SOLAR CHARGE INVERTER

KNY5500



- Advanced MPPT with efficiency up to 99.9%
- Compatible with lead-acid batteries and lithium batteries
- Uninterruptible power supply, switching within 10ms
- CE / CETL / SAA / FCC safety certification
- Only about 1.5 hours for installation
- ERROR CODE for accurate error reporting
- With dry contact for diesel power generation
- The maximum charging current can reach 123A
- Noise less than 60 decibels
- Output pure sine wave



Stable Power Supply



Precise Management



High Utilization



Long Product Life

Model KNY5500

Basic Information

Rated Output Power/Voltage	5500W / 230Vac(L/N/PE Single-phase)
Max.Peak Power	11000VA
Load Capacity of Motors	4HP
Rated AC Frequency	50Hz/60Hz
Waveform	Pure Sine Wave
Switch Time	10ms(typical)

Battery Parameters

Battery Type	Li-ion / Lead-Acid / User-defined
Rated Battery Voltage	48V
Voltage Range	40~60V DC
Max.MPPT Charging Current	100A
Max.grid/Generator Charging Current	60A
Max.Hybrid Charging Current	100A

PV Input

NO. of MPPT Trackers	1
Max.PV Array Power	6000W
Max.Input Current	22A
Max.Voltage of Open Circuit	500V DC
MPPT Voltage Range	120-450V DC

Utility / Generator Input

Input Voltage Range	UPS mode:170 ~ 280V AC; APL mode: 90 ~ 280V AC
Frequency Range	50/60Hz
Bypass Overload Current	40A

Efficiency

MPPT Tracking Efficiency	99.9%
Max. Battery Inverter Efficiency	>90%

General Parameters

Dimensions (W*H*D mm)	322*426*124mm
Gross/Net Weight	12kg/10.29kg
Protection Rating	IP20, IndoorOnly
Operating Temperature Range	-10°C~55°C
Noise	<60dB
Cooling Method	Internal Fan
Embedded Interfaces	RS485 / CAN / USB / Dry contact
External Modules (Optional)	Wi-Fi / GPRS

ACCESSORIES

WI-FI Pocket

For Off-grid Inverter

Work Indicating Lamp:
Power supply, Equipment, Router, Server,
Always on normal, Off abnormal.



ACCESSORIES

Battery Holder

For ZC-L 51100 / 48100

Combine Multiple Machines
to Achieve Modular Management.



General Parameters

Dimensions	70*27*137mm
Gross/Net Weight	0.14kg/0.11kg
Protection Class	IP65
Rated Voltage	DC5V~12V
Maximum Current	800mA(DC5V)
Operation Temperature	-30 C ~ +85 C
Storage Temperature	-40 C ~ +90 C
Mode of Docking	HKJ(Aviation joint)

Hardware

Data Entry Mode	RS-485
Data Output Mode	Wi-Fi
RS-485 Baud Rate	9600bps(default)
Hardware Watchdog	Support

Others

NO.of Connected Devices	1
Certification	CE, ROHS

Wi-Fi

Working Frequency	2.4GHz
WLAN Standard	802.11 b/g/n
Antenna Gain	2.5dBi
Antenna	External
Data Rate	11Mbps@11b, 54Mbps@11g, 72Mbps@11n
Hardware Encryption	WEP, WPA/WPA2
Communication Distance	100M (open environment)
Operating Mode	AP+STA(Coexistence pattern)

Software

Language	Chinese, English
Software Watchdog	Support
Data Upload Cycle	5min (default)
Parameter Configuration Mode	APP or Built-in server
NO.of clients in AP Mode	1 (preemptive)
Cloud Platform	Eybond Value Clouds
Supported Network Layer Protocols	Modbus-TCP
Supported Device Protocols	Modbus-RTU (main current) Non Modbus-RTU

General Parameters

Dimensions	Front: 484*60*208mm / Rear: 452*60*208mm
Gross/Net Weight	3.55kg/3.14kg
Product Process	Metal Spraying
Applicable Models	ZC-L 51100 / ZC-L 48100