KANGJUN NEW ENERGY

KANG JUN XIN NENG YUAN



Zhongshan Kangjun New Energy Technology Co., Ltd.

Add.: Floor 5, Building 6, Qifang Industrial Park, Tongyi Industrial Zone, Guzhen Town, Zhongshan, Guangdong, China

Company Profile

Zhongshan Kangjun New Energy Technology Co., Ltd. is a high-tech enterprise specializing in the R&D, production, sales and service of lithium battery packs, and a professional provider of lithium battery PACK technology and application solutions. With cutting-edge technologies including advanced battery management systems, intelligent PV MPPT charging and integrated inverter control, the company has won wide recognition and support from customers. Our technical team gathers industry elites and runs advanced production equipment, delivering tailored solutions that respond precisely to individual customer requirements. Guided by the philosophy of steady operation, pioneering innovation, integrity and service first, and backed by a rigorous work style and a well-trained, experienced team, we provide timely, efficient and thoughtful pre-sales and after-sales service. Kangjun New Energy is committed to stable, high-quality products, continuous expansion and innovation, and a shared future with our partners.



Global-Leading Design

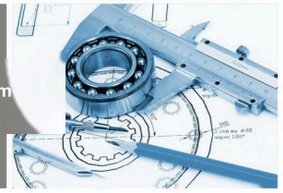


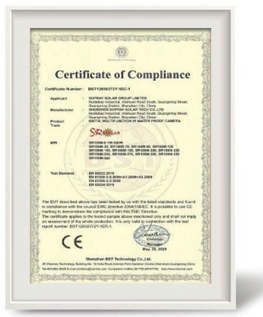
Precision Manufacturing

Premium Material Selection



Rigorous Testing System





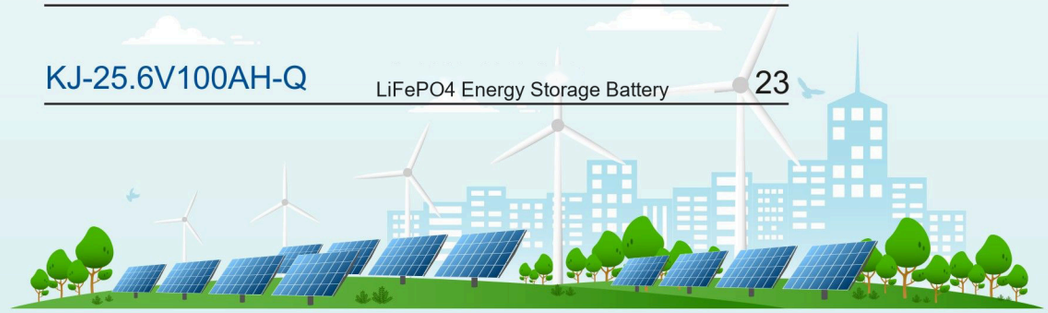






INDEX CHARGERS

KJ-48100-5	Mobile Energy Storage Battery	01
KJ-48200-10	Mobile Energy Storage Battery	03
KJ-48280-15	Mobile Energy Storage Battery	05
KJ-48200-A	Mobile Energy Storage Battery	07
KJ-48200-B	Mobile Energy Storage Battery	09
KJ-32300W/32500W	Portable LiFePO4 Power Station	11
KJ-641000W	Portable LiFePO4 Power Station	13
KJ-4.2KW-8KWH	Inverter-Battery All-in-One	15
KJ-6.2KW-16KWH	Inverter-Battery All-in-One	17
KJ-25.6V100AH-Q	Multi-Functional Power Station	19
KJ-12.8V100AH-Q	LiFePO4 Energy Storage Battery	21
KJ-25.6V100AH-Q	LiFePO4 Energy Storage Battery	23



KJ-48100-5

Mobile Energy Storage Battery



Features & Advantages

1. Home Energy Storage Power

Ideal for household energy storage and various power shortage scenarios.

2. Integrated Design

Ultra-thin integrated design with easy wiring and protective marking, for better protection against electric shock.

3. LCD Display

The LCD screen shows the real-time operating status of the system anytime, making it safer and more reliable to use.

4. High-Power Output

High-power sine wave output delivers sufficient power without damaging appliances, for more stable performance.

5. 8 Battery Protections

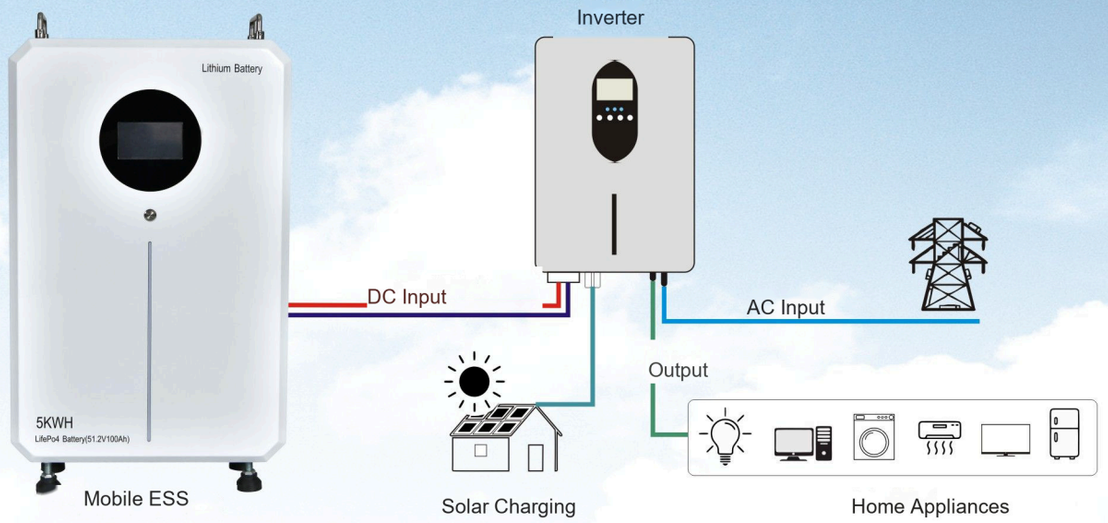
Anti-reverse, temperature, short-circuit, over-current, over-discharge, over-charge, over-voltage protection and balancing.

6. Alloy Housing Design

Strong protection against moisture, dust and impact, keeping the interior free from contamination and corrosion.

Mobile Energy Storage Application

RoHS CE UN.38.3 ISO



Product Parameters

Product Model	
Nominal Voltage	51.2V
Cell Type	LiFePO4
Connection	16S1P
Charge Cut-off Voltage	58.4V
Discharge Cut-off Voltage	44V
Max. Continuous Discharge Current	100A
Display	LCD Smart Touch Screen
Standard Charge Current	<100A
Standard Discharge Current	50A
Charge Temperature	0°C~45°C
Discharge Temperature	-20°C~60°C
Battery Pack Size	750×420×180mm
Packing Size	790×480×240mm
Net Weight	45.5KG
Gross Weight	60KG
Communication Interface	CAN/RS232/RS485

Convenient

CAN&RS485 Communication



KJ-48200-10

Mobile Energy Storage Battery



Features & Advantages

1. Home Energy Storage Power

Ideal for household energy storage and various power shortage scenarios.

2. Integrated Design

Ultra-thin integrated design with easy wiring and protective marking, for better protection against electric shock.

3. LCD Display

The LCD screen shows the real-time operating status of the system anytime, making it safer and more reliable to use.

4. High-Power Output

High-power sine wave output delivers sufficient power without damaging appliances, for more stable performance.

5. 8 Battery Protections

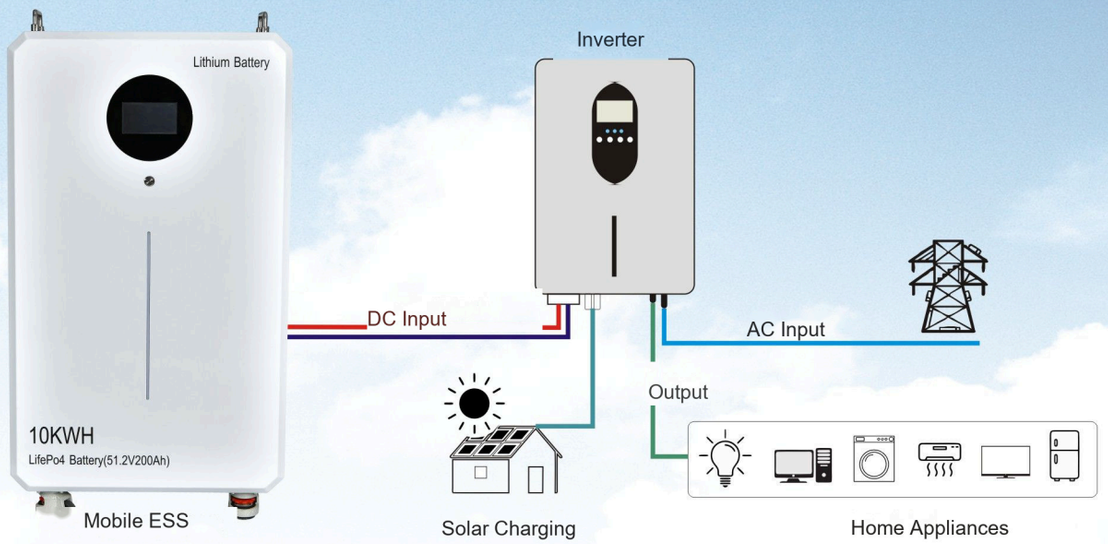
Anti-reverse, temperature, short-circuit, over-current, over-discharge, over-charge, over-voltage protection and balancing.

6. Alloy Housing Design

Strong protection against moisture, dust and impact, keeping the interior free from contamination and corrosion.

Mobile Energy Storage Application

RoHS CE UN.38.3 ISO



Product Parameters

Product Model	
Nominal Voltage	51.2V
Cell Type	LiFePO4
Connection	16S1P
Charge Cut-off Voltage	58.4V
Discharge Cut-off Voltage	44V
Max. Continuous Discharge Current	150A
Display	LCD Smart Touch Screen
Standard Charge Current	<150A
Standard Discharge Current	75A
Charge Temperature	0°C ~ 45°C
Discharge Temperature	-20°C ~ 60°C
Battery Pack Size	950×500×245mm
Packing Size	960×560×300mm
Net Weight	92.5KG
Gross Weight	108KG
Communication Interface	CAN/RS232/RS485

Convenient

CAN&RS485 Communication



KJ-48280-15

Mobile Energy Storage Battery



Features & Advantages

1. Home Energy Storage Power

Ideal for household energy storage and various power shortage scenarios.

2. Integrated Design

Ultra-thin integrated design with easy wiring and protective marking, for better protection against electric shock.

3. LCD Display

The LCD screen shows the real-time operating status of the system anytime, making it safer and more reliable to use.

4. High-Power Output

High-power sine wave output delivers sufficient power without damaging appliances, for more stable performance.

5. 8 Battery Protections

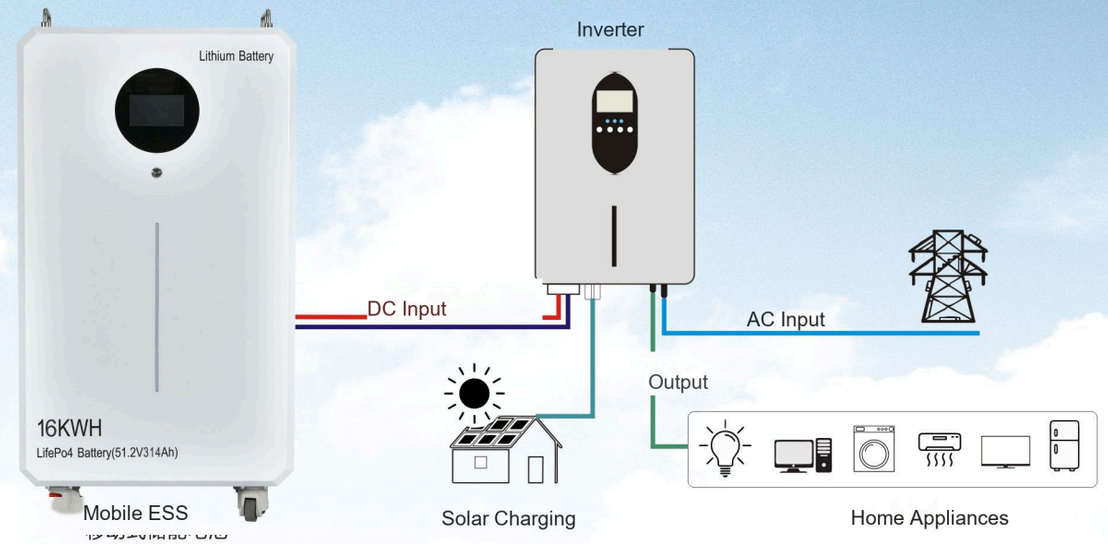
Anti-reverse, temperature, short-circuit, over-current, over-discharge, over-charge, over-voltage protection and balancing.

6. Alloy Housing Design

Strong protection against moisture, dust and impact, keeping the interior free from contamination and corrosion.

Mobile Energy Storage Application

RoHS CE UN.38.3 ISO



Product Parameters

Product Model	
Nominal Voltage	51.2V
Cell Type	LiFePO4
Connection	16S1P
Charge Cut-off Voltage	58.4V
Discharge Cut-off Voltage	44V
Max. Continuous Discharge Current	200A
Display	LCD Smart Touch Screen
Standard Charge Current	<200A
Standard Discharge Current	100A
Charge Temperature	0°C ~ 45°C
Discharge Temperature	-20°C ~ 60°C
Battery Pack Size	900×560×300mm
Packing Size	900×560×300mm
Net Weight	113KG
Gross Weight	128KG
Communication Interface	CAN/RS232/RS485

Convenient

CAN&RS485 Communication



KJ48200-A

Mobile Energy Storage Battery



Features & Advantages

1. Home Energy Storage Power

Ideal for household energy storage and various power shortage scenarios.

2. Integrated Design

Ultra-thin integrated design with easy wiring and protective marking, for better protection against electric shock.

3. LCD Display

The LCD screen shows the real-time operating status of the system anytime, making it safer and more reliable to use.

4. High-Power Output

High-power sine wave output delivers sufficient power without damaging appliances, for more stable performance.

5. 8 Battery Protections

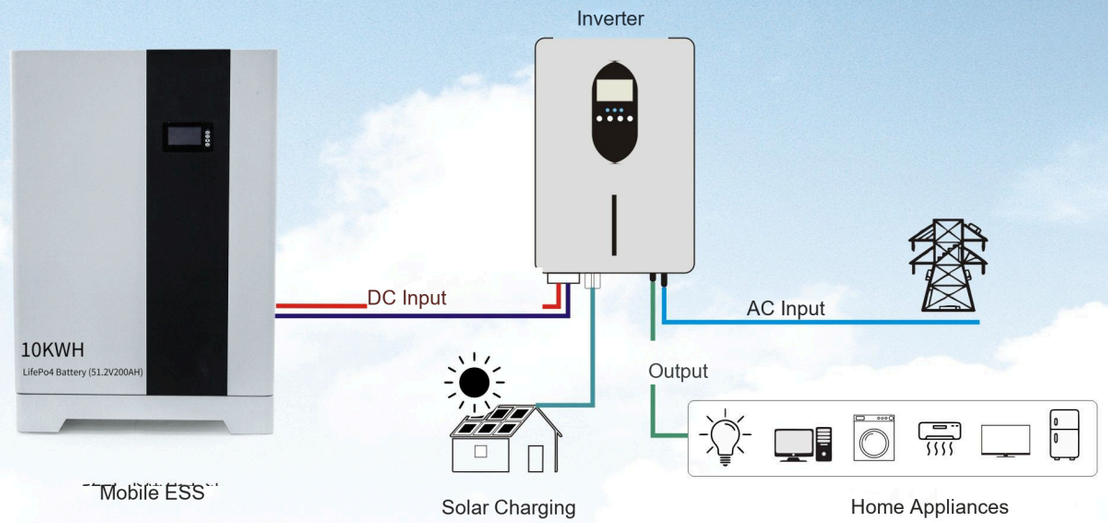
Anti-reverse, temperature, short-circuit, over-current, over-discharge, over-charge, over-voltage protection and balancing.

6. Alloy Housing Design

Strong protection against moisture, dust and impact, keeping the interior free from contamination and corrosion.

Mobile Energy Storage Application

RoHS CE UN.38.3 ISO



Product Parameters

Product Model	KJ48200-A	KJ48300-A
Nominal Voltage	51.2V	51.2V
Cell Type	LiFePO4	LiFePO4
Connection	16S1P	16S1P
Charge Cut-off Voltage	58.4V	58.4V
Discharge Cut-off Voltage	40V	40V
Max. Continuous Discharge Current	200A	200A
Display	N	N
Standard Charge Current	100A	140A
Standard Discharge Current	100A	140A
Charge Temperature	0°C ~ 55°C	0°C ~ 55°C
Discharge Temperature	-20°C ~ 60°C	-20°C ~ 60°C
Battery Pack Size	568×245×H828mm	568×245×H828mm
Battery Capacity	10240Wh	15360Wh
Net Weight	97.4KG	121KG
Charging Mode	CC/CV	CC/CV
Communication Interface	CAN/RS232/RS485	CAN/RS232/RS485

Convenient

CAN&RS485 Communication



KJ48200-B

Mobile Energy Storage Battery



Features & Advantages

1. Home Energy Storage Power

Ideal for household energy storage and various power shortage scenarios.

2. Integrated Design

Ultra-thin integrated design with easy wiring and protective marking, for better protection against electric shock.

3. LCD Display

The LCD screen shows the real-time operating status of the system anytime, making it safer and more reliable to use.

4. High-Power Output

High-power sine wave output delivers sufficient power without damaging appliances, for more stable performance.

5. 8 Battery Protections

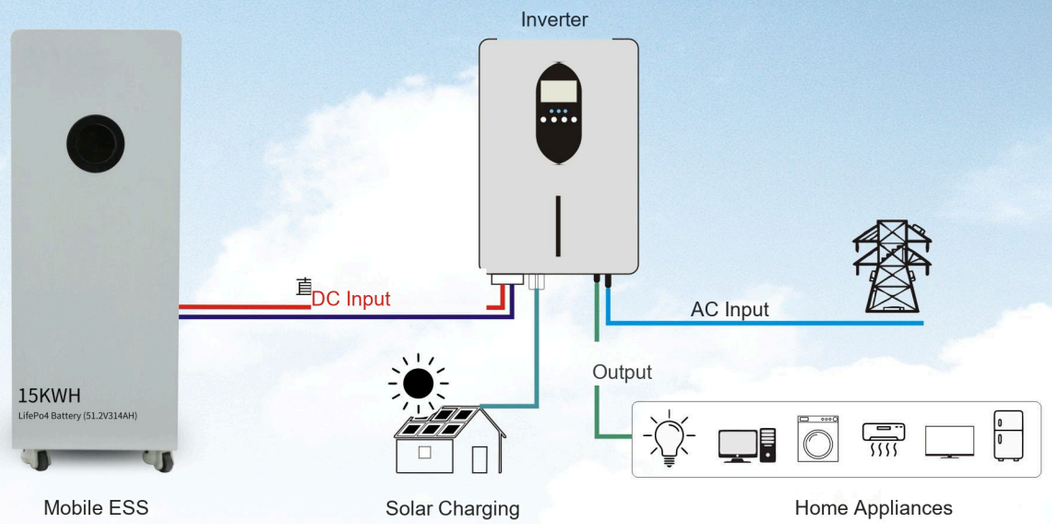
Anti-reverse, temperature, short-circuit, over-current, over-discharge, over-charge, over-voltage protection and balancing.

6. Alloy Housing Design

Strong protection against moisture, dust and impact, keeping the interior free from contamination and corrosion.

Mobile Energy Storage Application

RoHS CE UN.38.3 ISO



Product Parameters

Product Model	KJ48200-B	KJ48300-A
Nominal Voltage	51.2V	51.2V
Cell Type	LiFePO4	LiFePO4
Connection	16S1P	16S1P
Charge Cut-off Voltage	58.4V	58.4V
Discharge Cut-off Voltage	40V	40V
Max. Continuous Discharge Current	200A	200A
Display	N	N
Standard Charge Current	100A	140A
Standard Discharge Current	100A	140A
Charge Temperature	0°C ~ 55°C	0°C ~ 55°C
Discharge Temperature	-20°C ~ 60°C	-20°C ~ 60°C
Battery Pack Size	615×350×H950mm	615×350×H950mm
Packing Size	10240Wh	15360Wh
Net Weight	123KG	147KG
Charging Mode	CC/CV	CC/CV
Communication Interface	CAN/RS232/RS485	CAN/RS232/RS485

Convenient

CAN&RS485 Communication



KJ-32300W/32500W

Portable LiFePO4 Power Station



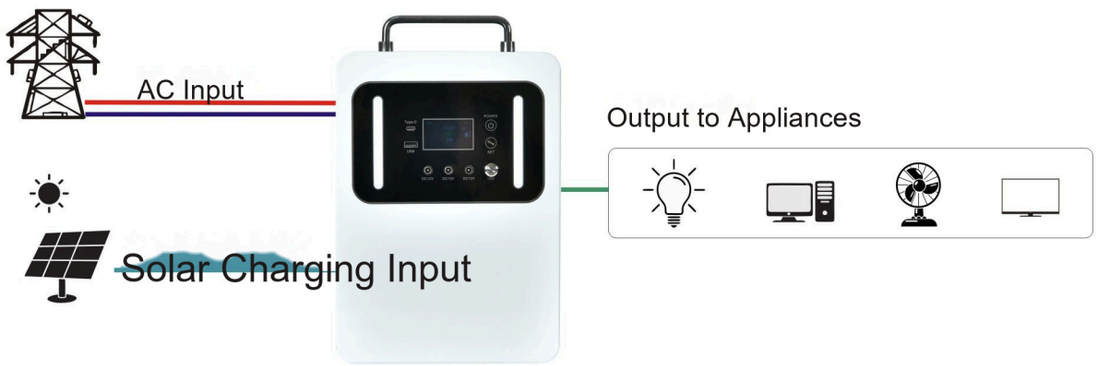


Long Life Design, Durable & Value-Retaining

- LiFePO4 cells rated 6,000+ cycles
- Slow degradation, stable capacity
- Deep charge/discharge, maintenance-free

Multiple Protections, Worry-Free

- Full over-charge/current/temp protection
- Low-voltage design for safer use
- Flame-retardant structure



Mobile Energy Storage Application

RoHS CE UN.38.3 ISO

Product Parameters

General Information		
Product Model	KJ-32300W	KJ-32500W
AC Input/Output		
Rated AC Output Power	300W	500W
Output Waveform	Pure Sine Wave	
Output Voltage	185~230Vac, 50Hz	
Nominal Input Voltage	230Vac	
Min. Protection Voltage	90Vac/170Vac±7	
Min. Protection Recovery Voltage	100Vac/180Vac±7	
Max. Protection Voltage	280Vac±7	
Max. Protection Recovery Voltage	270Vac±7	
Max. AC Input Voltage	300Vac	
Nominal Input Frequency	45~65Hz	
AC Charging Power	300W Max.	500W Max.
Solar Panel Input		
Power Range	150 to 550W, 1pcs	
MPPT Voltage Range	10~50Vdc	
Charge Start Voltage	10Vdc	
Max. Charge Voltage	55Vdc	
Max. Charge Power	300W Max.	400W Max.
DC Output		
DC Output	12V 2.5A DC Power JACK 5.5*2.1mm, 3pcs	
USB Port	5V 1A, 1pc	
Type-C Port	5V 1A, 1pc	
Battery Information		
Battery Energy	896Wh/1004.8Wh	1004.8Wh
Nominal Voltage	3.2Vdc	3.2Vdc
Nominal Capacity	280Ah/314Ah	314Ah
Max. Charge Current	130A	220A
Max. Discharge Current	130A	220A
Operating Voltage Range	2.9Vdc~3.6Vdc	2.9Vdc~3.6Vdc
Others		
Installation	Indoors	
Protection Degree	IP21	
Operating Temperature	-10°C ~ +50°C	
Operating Humidity	5%-95% RH (Non-condensing)	
Operating Altitude	≤2000 m	
Product Size	L280*W230*H150mm	L322*W230*H150mm
Packing Size	L347 x W301 x H230mm	L385 x W300 x H230mm
Net Weight	9.8kg	10.3kg
Gross Weight	10.8kg	11.5kg

KJ-641000W

Portable LiFePO4 Power Station



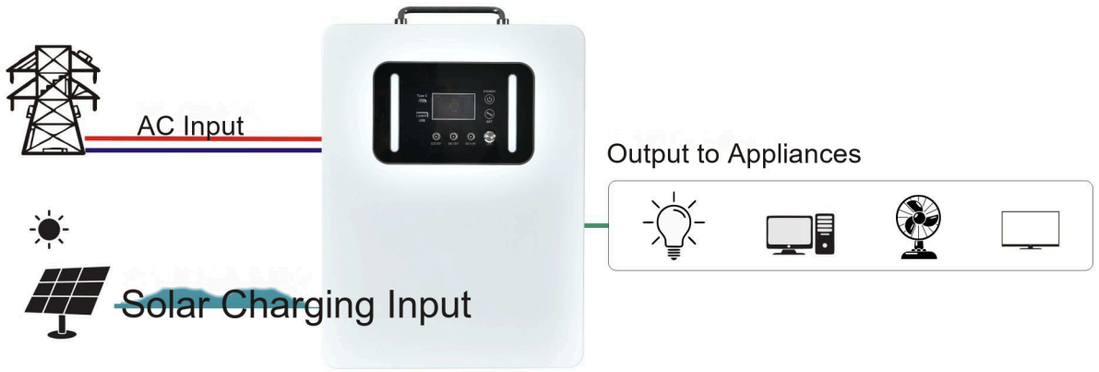


Long Life Design, Durable & Value-Retaining

- LiFePO4 cells rated 6,000+ cycles
- Slow degradation, stable capacity
- Deep charge/discharge, maintenance-free

Multiple Protections, Worry-Free

- Full over-charge/current/temp protection
- Low-voltage design for safer use
- Flame-retardant structure



Mobile Energy Storage Application

RoHS CE UN.38.3 ISO

Product Parameters

General Information	
Product Model	KJ-641000W
AC Input/Output	
Rated AC Output Power	1000W
Output Waveform	Pure Sine Wave
Output Voltage	185~230Vac, 50Hz
Nominal Input Voltage	230Vac
Min. Protection Voltage	90Vac/170Vac±7
Min. Protection Recovery Voltage	100Vac/180Vac±7
Max. Protection Voltage	280Vac±7
Max. Protection Recovery Voltage	270Vac±7
Max. AC Input Voltage	300Vac
Nominal Input Frequency	45~65Hz
AC Charging Power	1000W Max.
Solar Panel Input	
Power Range	150 to 550W, 1pcs
MPPT Voltage Range	10~50Vdc
Charge Start Voltage	15Vdc
Max. Charge Voltage	70Vdc
Max. Charge Power	550W Max.
DC Output	
DC Output	12V 2.5A DC Power JACK 5.5*2.1mm, 3pcs
USB Port	5V 1A, 1pc
Type-C Port	5V 1A, 1pc
Battery Information	
Battery Energy	2009.6Wh
Nominal Voltage	6.4Vdc
Nominal Capacity	314Ah
Max. Charge Current	220A
Max. Discharge Current	220A
Operating Voltage Range	5.8Vdc~7.2Vdc
Others	
Installation	Indoors
Protection Degree	IP21
Operating Temperature	-10°C ~ +50°C
Operating Humidity	5%-95% RH (Non-condensing)
Operating Altitude	≤2000 m
Product Size	L430*W296*H157mm
Packing Size	L505*W371*H242mm
Net Weight	20kg
Gross Weight	21.8kg

KJ4.2KW-8KWH

Inverter-Battery All-in-One System



Efficient Storage, Power Freedom

- Large capacity for days of basic needs
- Stores surplus PV power, zero waste
- Plug & play with mainstream inverters

Smart Management, Easy & Convenient

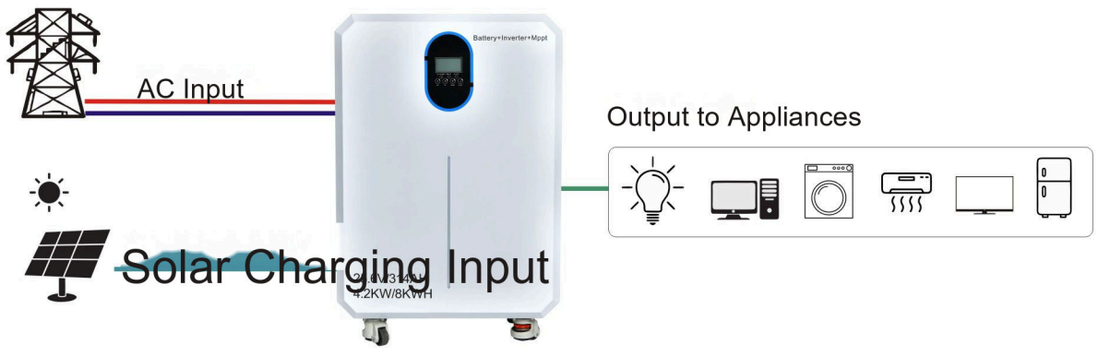
- Smart BMS monitors battery in real time
- APP for remote monitoring & settings
- Peak shaving cuts electricity bills

Long Life Design, Durable & Value-Retaining

- LiFePO4 cells rated 6,000+ cycles
- Slow degradation, stable capacity
- Deep charge/discharge, maintenance-free

Multiple Protections, Worry-Free

- Full over-charge/current/temp protection
- 24V low-voltage design for safer use
- Flame-retardant structure



Mobile Energy Storage Application

RoHS CE UN.38.3 ISO

Product Parameters

4.2KW/8KWS	
Specifications	
AC Input	
Rated Input Voltage	230 VAC
Specifications	
Voltage Range	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency	50 / 60 (Auto Adaptive)
AC Output	
Rated Power	4.2
Peak Power	8.4
Voltage	220 / 230±5%
Power Factor	0.6~1
Frequency	50/60Hz±0.1%
Transfer Time	2026/10/20
Waveform	Pure Sine Wave
Overload (Battery Mode)	5s@≥%140 load, 10s@100%-140% load
Max. Efficiency	94%@48VDC
Charger	
Solar Charge Type	MPPT
PV Input	27A / 6200W
Voltage Range	60~500
Open-Circuit Voltage	500
PV Charge Voltage	120
Utility Charge Current	120
Max. Charge Current	120
Battery	
Rated Battery Voltage	25.6VDC
Rated Energy	8KWh (0.5C, 25°C)
Usable Energy (90% DOD)	7.2KWh
Max. Charge/Discharge Current	150A/150A
Operating Voltage Range	22.0Vdc ~ 29.2Vdc
Operating Temperature	-10°C ~ +65°C
General Information	
Protection Degree	IP21
Operating Temperature	-10°C ~ 50°C
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Humidity	5% ~ 95% (Non-condensing)
Max. Operating Altitude	4000m (Derating above 1000m)
Battery Net Weight	75.2kg
Battery Pack Size	780*520*275

KJ6.2KW-16KWH

Inverter-Battery All-in-One System



Efficient Storage, Power Freedom

- Large capacity for days of basic needs
- Stores surplus PV power, zero waste
- Plug & play with mainstream inverters

Smart Management, Easy & Convenient

- Smart BMS monitors battery in real time
- APP for remote monitoring & settings
- Peak shaving cuts electricity bills

Long Life Design, Durable & Value-Retaining

- LiFePO4 cells rated 6,000+ cycles
- Slow degradation, stable capacity
- Deep charge/discharge, maintenance-free

Multiple Protections, Worry-Free

- Full over-charge/current/temp protection
- 24V low-voltage design for safer use
- Flame-retardant structure



Mobile Energy Storage Application

RoHS CE UN.38.3 ISO

Product Parameters

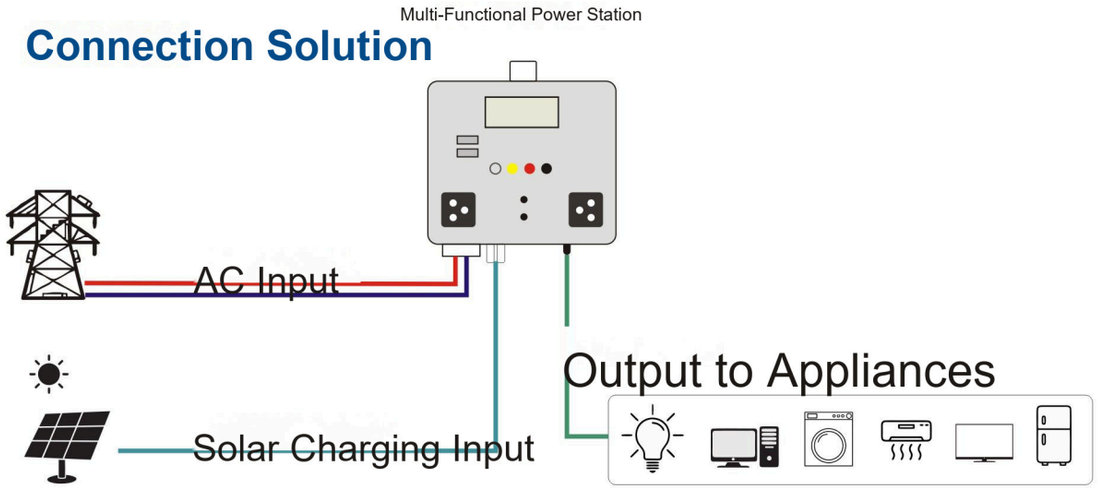
6.2KW/16KWS	
Specifications	
AC Input	
Rated Input Voltage	230 VAC
Specifications	
Voltage Range	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency	50 / 60 (Auto Adaptive)
AC Output	
Rated Power	6.2
Peak Power	12.4
Voltage	220 / 230±5%
Power Factor	0.6~1
Frequency	50/60Hz±0.1%
Transfer Time	2026/10/20
Waveform	Pure Sine Wave
Overload (Battery Mode)	5s@≥%140 load, 10s@100%-140% load
Max. Efficiency	94%@48VDC
Charger	
Solar Charge Type	MPPT
PV Input	27A / 9000W
Voltage Range	60~500
Open-Circuit Voltage	500
PV Charge Voltage	120
Utility Charge Current	120
Max. Charge Current	120
Battery	
Rated Battery Voltage	51.2VDC
Rated Energy	16KWh (0.5C, 25°C)
Usable Energy (90% DOD)	14.4KWh
Max. Charge/Discharge Current	150A/150A
Operating Voltage Range	44.0Vdc ~ 58.4Vdc
Operating Temperature	-10°C ~ +65°C
General Information	
Protection Degree	IP21
Operating Temperature	-10°C ~ 50°C
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Humidity	5% ~ 95% (Non-condensing)
Max. Operating Altitude	4000m (Derating above 1000m)
Battery Net Weight	129kg
Battery Pack Size	1070*520*275

KJ-A-600W-12V

Multi-Functional Power Station



Connection Solution



Mobile Energy Storage Application

RoHS CE UN.38.3 ISO



Product Parameters

Product Model	KJ-A-400W-12V	KJ-A-600W-12V	KJ-A-1200W-12V	KJ-A-2500W-12V
Battery Capacity	12.8V23Ah	12.8V45Ah	12.8V104Ah	25.6V86Ah
Battery Energy	295Wh	576Wh	1331Wh	2200Wh
Battery Type	LifePo4 battery	LifePo4 battery	LifePo4 battery	LifePo4 battery
Inverter Power	400W	600W	1200W	2500W
AC Output Voltage	220V	220V	220V	220V
Rated Frequency	50Hz	50Hz	50Hz	50Hz
DC Output	12V/5A	12V/5A	12V/5A	12V/5A
USB Output	5V/3A	5V/3A	5V/3A	5V/3A
Max. Solar Panel	80W	100W	200W	400W
Charger Voltage	14.6V	14.6V	14.6V	29.2V
Charging Current	5A	5A	5A	10A
Product Size (mm)	320*180*175	370*230*205	405*270*265	475*275*345
Product Weight	4.55 Kg	7.35 Kg	13.75 Kg	26.55 Kg
Operating Temperature	-10 ~ 60°C	-10 ~ 60°C	-10 ~ 60°C	-10 ~ 60°C

KJ-12.8V100AH-Q

LiFePO4 Energy Storage Battery



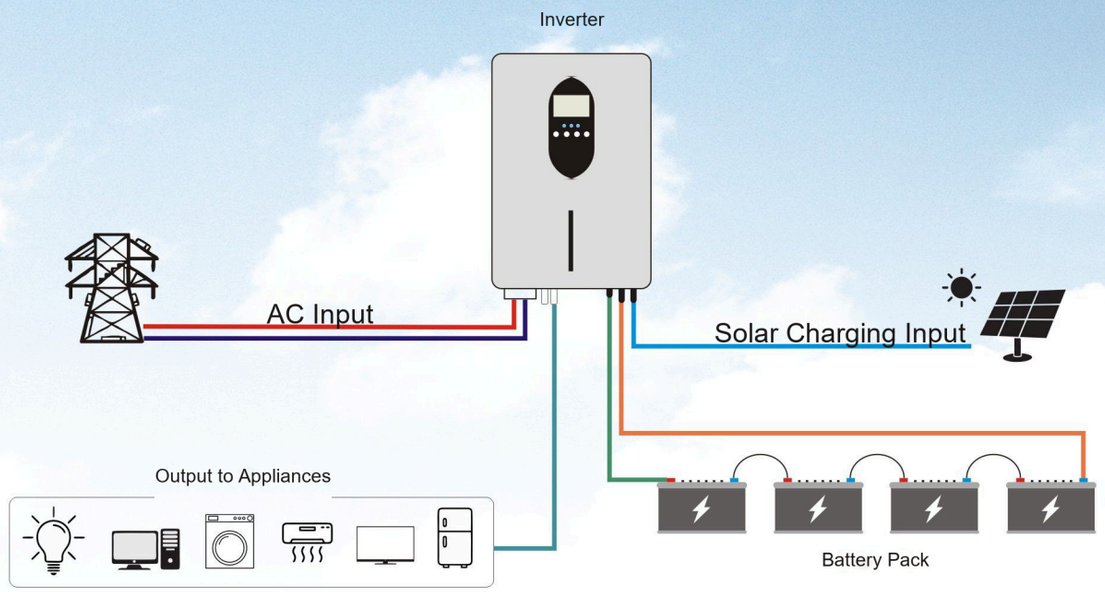




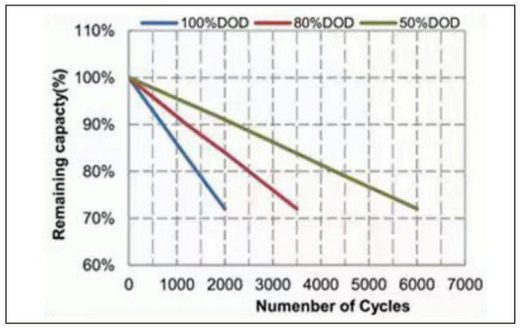


12V LiFePO4 Energy Storage Application

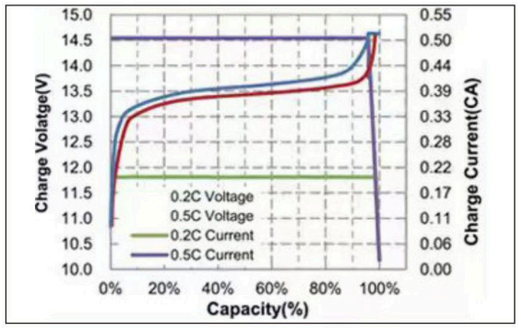
RoHS CE UN.38.3 ISO



2,000+ Cycles, 5-Year Ultra-Long Service Life



Discharge Cycle Life Curve



Charging Characteristic Curve

1. From the chart

Most capacity of the 12V NMC pack is released between 10.2-12.0V, a 1.8V spread; most capacity of the 12V LiFePO4 pack is released between 12.4-13.2V, a 0.8V spread.

2. Comparison of the two

The main capacity-release voltage spread is 0.8V for LiFePO4 vs 1.8V for NMC. The NMC curve is steeper while the LiFePO4 curve is flatter - an advantage for LiFePO4.

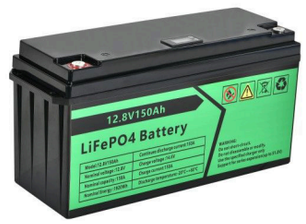
Note: Formulations vary among manufacturers, but the overall trend is as shown.

Product Parameters

Product Model	12.8V100Ah	12.8V150Ah	12.8V200Ah
Nominal Voltage		12.8V	
Nominal Capacity		100A	
Nominal Energy		1280Wh	
Continuous Discharge Current		100A	
Charge Voltage		14.6V	
Charge Current		100A	
Discharge Temperature		- 20°C~+60°C	
Net Weight		9.55kg	
Pack Size		328*172*218	



100Ah



150Ah



200Ah

KJ-25.6V100AH-Q

LiFePO4 Energy Storage Battery





Over-Voltage Protection

Over-Current Protection

Over-Charge Protection

Over-Discharge Protection

Short-Circuit Protection

Anti-Reverse Charging

Overload Protection

Temperature Protection

Product Advantages

No Memory Effect

No memory effect - no need to fully discharge before recharging. Charging is more flexible as needed, without waiting for the battery to run out.

Low Self-Discharge

The self-discharge rate is relatively low, so power drains slowly in storage. The battery keeps a relatively high charge level even after long idle periods.

High Energy Density

Higher energy density stores more energy in the same volume and weight, making LiFePO4 ideal for applications that demand high energy density.

Lightweight Design

Much lighter than lead-acid batteries - ideal for portable and mobile devices and vehicles, improving portability and efficiency.

Longer Cycle Life

LiFePO4 batteries typically offer a longer cycle life with more charge/discharge cycles - ideal for frequent-charging applications, while reducing battery replacement frequency.

Eco-Friendly

More eco-friendly than lead-acid batteries in production and disposal, as they contain no harmful heavy metals such as lead.

Application Scenarios

RoHS CE UN.38.3 ISO

Golf carts, electric two-wheelers

Forklifts, tricycles, e-motorcycles

Off-road EVs, unmanned explorers



Product Parameters

Item	12.8V LiFePO4 Battery		
Battery Type	LiFePO4 100Ah	LiFePO4 200Ah	LiFePO4 300Ah
Nominal Voltage	12.8VDC	12.8VDC	12.8VDC
Voltage Range	11-14.6V	11-14.6V	11-14.6V
Stored Energy	1280WH	2560WH	3840WH
Discharge Current	≥150A	≥150A	≥150A
Charge Current	≥75A	≥75A	≥75A
Max. Parallel Units	10 Units	10 Units	10 Units
Communication	/	/	/
Certificates	MSDS/UN38.3	MSDS/UN38.3	MSDS/UN38.3
Dimensions (L*W*H)	505*190*242MM	505*190*242MM	505*190*242MM

Item	25.6V LiFePO4 Battery		
Battery Type	LiFePO4 100Ah	LiFePO4 200Ah	LiFePO4 300Ah
Nominal Voltage	12.8VDC	12.8VDC	12.8VDC
Voltage Range	11-14.6V	11-14.6V	11-14.6V
Stored Energy	2560WH	5120WH	7680WH
Discharge Current	≥120A	≥150A	≥150A
Charge Current	≥60A	≥75A	≥75A
Max. Parallel Units	10 Units	10 Units	10 Units
Communication	/	/	/
Certificates	MSDS/UN38.3	MSDS/UN38.3	MSDS/UN38.3
Dimensions (L*W*H)	490*330*250MM	490*330*250MM	490*330*250MM

Item	General Parameters
Charging Temp. Range	0~ +50°C
Discharge Temp. Range	20~ +55°C
Operating Humidity	5%~85%
Protection Grade	IP 20