

Footprint Review

KH BATTERY CATALOGUE

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ABOUT US



Keheng New Energy Technology (shenzhen) Co., Ltd is dedicated to renewable energy field, It is the pioneer company of producing the high power and high safety battery in the world. With total investment of 50 million USD. Its annual output is around 3GWh high power of lithium ion battery cells, which is widely used in power tools, car jump starter, medical equipments, and Remote Control toys (RC car, helicopter, boat, etc.)Electric vehicle, Energy storage System etc, With strong R&D team, 8 automation production line, the total output can reach 258 million USD per year.

The marketing center is located in Shenzhen where can look for the elites from global new energy industry.Serving a global customer base, Anhui are the global manufacturing base of lithium batteries,it provides top quality products in rechargeable cells and packs for Fascia guns, keheng have been providing ODM and OEM service to customers from USA, Mexico, Europe, Japan, Korea, Taiwan, Middle East and other countries. And the products will be sold all over the world.

Factory certificated by ISO9001:2015,ISO14001,OHSAS18001.

Battery certificated by MSDS,ROHS,UN38.3,CE,CB,UL,KC,BIS,etc.

CERTIFICATION



ISO 9001



ISO 14001



OHSAS18001



CE



CB/IEC 62133



UL



ROHS



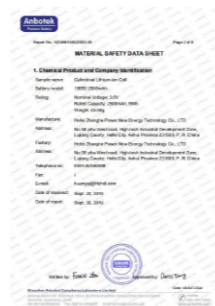
KC



BIS



UN 38.3



MSDS

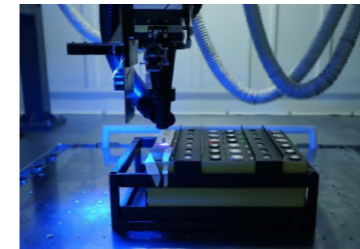


SEA/AIR SHIPMENT

CELL FACTORY OVERVIEW



PACK FACTORY OVERVIEW



CYLINDRICAL CELL



INR18650-2000MAH-3C



INR18650-2000MAH-10C



INR18650-2500MAH-3C

CYLINDRICAL CELL



INR18650-2600MAH-3C



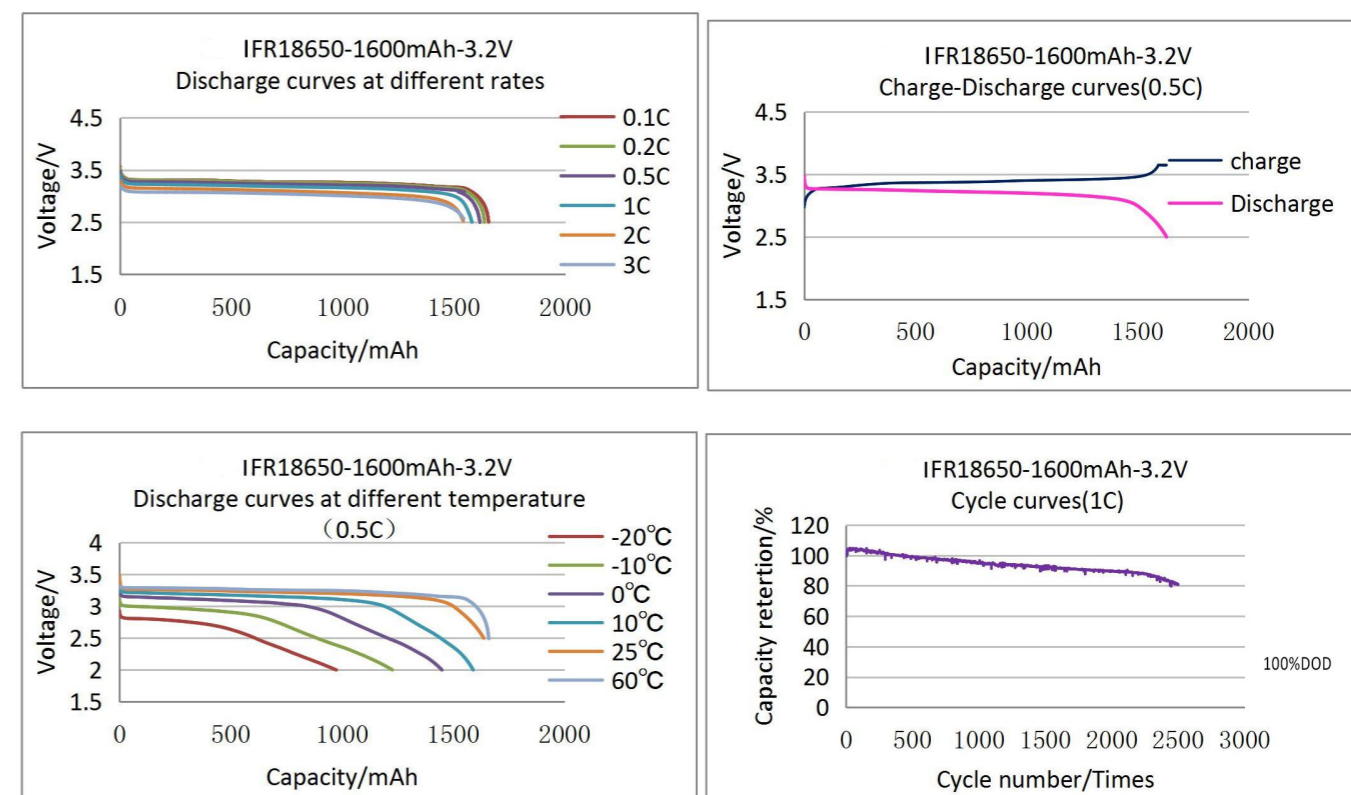
IFR18650-1600MAH-10A



IFR32650-6000MAH-2C

Model	INR18650-2000-3C	INR18650-2000-10C	INR18650-2500-3C	INR18650-2600-3C	IFR18650-1600-10A	IFR32650-6000-2C
General characteristic						
Nominal Voltage	3.7V				3.2V	
Nominal capacity	2000MAH	2000MAH	2500MAH	2600MAH	1600MAH	6000MAH
Min capacity	1950MAH	1950MAH	2490MAH	2550MAH	1550MAH	5950MAH
Nominal energy	7.4WH	7.4WH	9.3WH	9.7WH	5.2WH	19.2WH
Dimension(MM)	H65.0*D18.3				H65.0*D18.3	H65.0*D32.2
Discharge rate	3C	10C	3C	3C	3C	3C
Approx.weight(G)	44G	44G	48G	48G	40G	140G
Material	NCM				LiFePO4	
Electrical characteristics						
End of charge voltage	4.2V				3.65V	
End of discharge voltage	2.75V				2.5V	
Continuous charge current	2A	2A	2.5A	2.6A	1.6A	6A
Continuous discharge current	6A	20A	7.5A	7.8A	4.8A	12A
Internal resistance	<30mΩ	<20mΩ	<25mΩ	<30mΩ	<40mΩ	9mΩ
Charge temperature	0°C ~ 45°C				0°C ~ 60°C	
Discharge temperature	-20°C ~ 60°C				-20°C ~ 60°C	
Storage temperature	-20°C-30°C				-20°C ~ 55°C	
Cycle lfe(25°C,1C.@100%DOD)	500 times	500 times	500 times	500 times	2000 times	2000 times
Cycle lfe(25°C,1C.@80%DOD)	800 times	800 times	800 times	800 times	4000 times	4000 times
Certifications	CE/CB//UL/KC/BIS/UN38.3/MSDS/ROHS/IEC 62321					

Please contact KH for more models beyond the lists



Main Features

- Rechargeable Lithium ion battery
- No memory effect
- High energy density
- Low internal resistance
- Low self-discharge character
- 4000 times cycle life@80%DOD
- 10C continuous discharge rate optional
- Multi-kinds of capacity optional
- 18650 and 32650 optional
- NCM and LFP cell optional
- Friendly to the environment:No Cd, Hg, Pb

Applications

- Electric vehicle(EVs)
- Golf-carts
- E-bikes
- E-motocycle
- Robots
- Electrical tools
- 3C products
- Solar street lighting
- Energy storage system

PRISMATIC CELL



KH-LFP12



KH-LFP25



KH-LFP50

PRISMATIC CELL



KH-LFP100



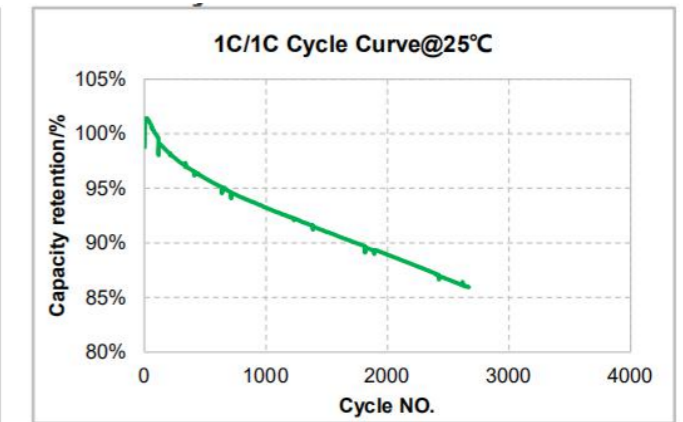
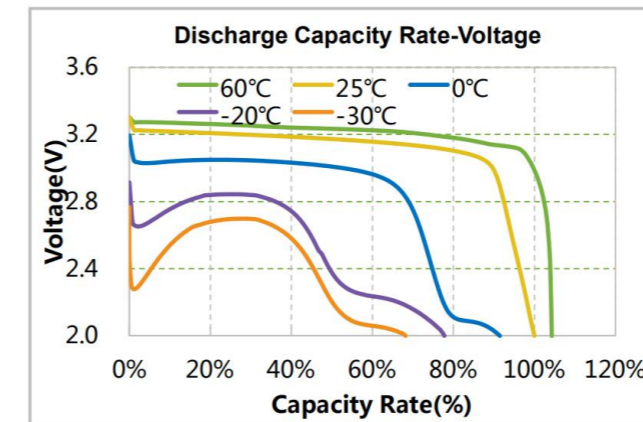
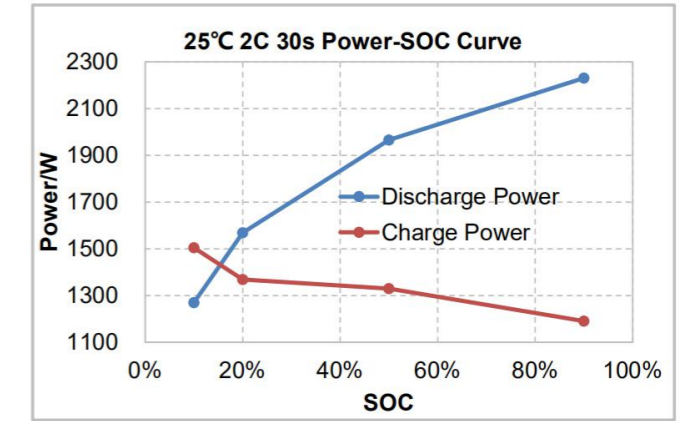
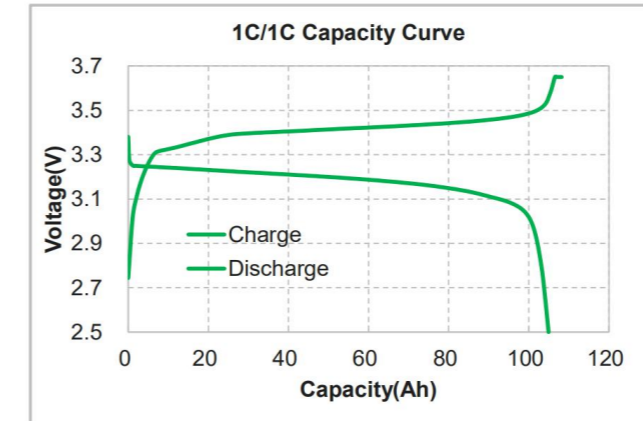
KH-LFP120



KH-LFP200

Model	KHLFP12	KHLFP25	KHLFP50	KHLFP100	KHLFP120	KHLFP200
General characteristic						
Nominal Voltage	3.2V	3.2V	3.2V	3.2V	3.2V	3.2V
Nominal capacity	12AH	25AH	50AH	100AH	120AH	200AH
Min capacity	11.5AH	24.5AH	49.5AH	99AH	119AH	198AH
Nominal energy	38.4WH	80WH	160WH	320WH	384WH	640WH
Dimension(L*W*H, MM)	65*15*120	100*20*145	148*25*115	200*33*169	173*47*170	173*54*200
Approx.weight	0.32KG	0.69KG	0.98KG	2.38KG	2.86KG	4.01KG
Material	LiFePO4					
Electrical characteristics						
End of charge voltage	3.65V					
End of discharge voltage	2.5V					
Continuous charge current	12A	22A	50A	100A	120A	100A
Continuous discharge current	12A	22A	50A	100A	120A	140A
Max pulse discharge current	36A	66A	150A	300A	360A	600A
Internal resistance	5mΩ	2mΩ	1.5mΩ	0.19mΩ	0.18mΩ	0.15mΩ
Operating temperature(charge)	0°C ~ 55°C					
Operating temperature(discharge)	-30°C ~ 55°C					
Storage temperature	-40°C ~ 60°C					
Cycle life(25°C@50%DOD,0.2C)	7000 times					
Cycle life(25°C@80%DOD,0.2C)	4000 times					
Cycle life(25°C@100%DOD,1C)	2000 times					
Certifications	UL/CE/UN38.3/MSDS					

Please contact KH for more models beyond the lists



Main Features

- LiFePO4 battery
- 7000 cycle life@50%DOD
- Highest safe chemistry with high energy density
- No memory effect
- High energy density
- Low internal resistance
- Low self-discharge character
- Multi-kinds of capacity optional
- Friendly to the environment:No Cd, Hg, Pb

Applications

- E-Bus
- Golf-Carts
- E-Motocycle
- Robots
- Medical Equipment
- Solar Street Lighting
- Lead Acid Replacement
- Energy Storage System
- Uninterrupted Power Supply

CUSTOMIZED BATTERY PACK (KH-P SERIES)



KH-P-NCM3720 KH-P-NCM3750 KH-P-NCM7425 KH-P-NCM11125 KH-P-NCM11150

Model	KH-P-NCM3720	KH-P-NCM3750	KH-P-NCM7425	KH-P-NCM11125	KH-P-NCM11150
General characteristic					
Nominal Voltage	3.7V	3.7V	7.4V	11.1V	11.1V
Nominal capacity	2000MAH	5000MAH	2500MAH	2500MAH	5000MAH
Min capacity	1950MAH	4950MAH	2450MAH	2450MAH	4950MAH
Nominal energy	7.4WH	18.5WH	18.5WH	27.8WH	55.5WH
Dimension(L*W*H, MM)	H70*D20	38*22*70	38*22*70	57*22*70	57*40*70
Approx.weight	55G	110G	110G	160G	310G
Connect method	1S1P	1S2P	2S1P	3S1P	3S2P
Cell	18650				
Material	NCM				
Electrical characteristics					
End of charge voltage(cell)	4.25V				
End of discharge voltage(cell)	2.75V				
Charging mode	CC/CV				
Charging cut-off current	0.02C				
Continuous charge current	2A	5A	2.5A	2.5A	5A
Continuous discharge current	2A	5A	2.5A	2.5A	5A
Max pulse discharge current	6A	10A	5A	5A	10A
Operating temperature(charge)	0°C ~ 45°C				
Operating temperature(discharge)	-10°C ~60°C				
Storage temperature	-20°C ~ 45°C				
Cycle lfe(25°C@80%DOD,0.2C)	800 times				
Cycle lfe(25°C@100%DOD,0.2C)	700 times				

Please contact KH for more models beyond the lists

CUSTOMIZED BATTERY PACK (KH-P SERIES)



KH-P-NCM22275 KH-P-NCM259104 KH-P-NCM29650 KH-P-NCM37060 KH- P-NCM370100

Model	KH-P-NCM22275	KH-P-NCM259104	KH-P-NCM29650	KH-P-NCM37060	KH-P-NCM370100
General characteristic					
Nominal Voltage	22.2V	25.9V	29.6V	37V	37V
Nominal capacity	7500MAH	10400MAH	5000MAH	6000MAH	10000MAH
Min capacity	7450MAH	10350MAH	4950MAH	5950MAH	9950MAH
Nominal energy	166.5WH	269.4WH	148WH	222WH	370WH
Dimension(L*W*H, MM)	114*61*70	133*80*70	1152*42*70	190*61*70	190*99*70
Approx.weight	920G	1230G	730G	1530G	2550G
Connect method	6S3P	7S4P	8S2P	10S3P	10S5P
Cell	18650				
Material	NCM				
Electrical characteristics					
End of charge voltage	4.25V				
End of discharge voltage	2.75V				
Charging mode	CC/CV				
Charging cut-off current	0.02C				
Continuous charge current	7.5A	10A	5A	6A	10A
Continuous discharge current	7.5A	10A	5A	6A	10A
Max pulse discharge current	15A	20A	10A	12A	20A
Operating temperature(charge)	0°C ~ 45°C				
Operating temperature(discharge)	-10°C ~60°C				
Storage temperature	-20°C ~ 45°C				
Cycle lfe(25°C@80%DOD,0.2C)	800 times				
Cycle lfe(25°C@100%DOD,0.2C)	700 times				

Please contact KH for more models beyond the lists

CUSTOMIZED EV BATTERY

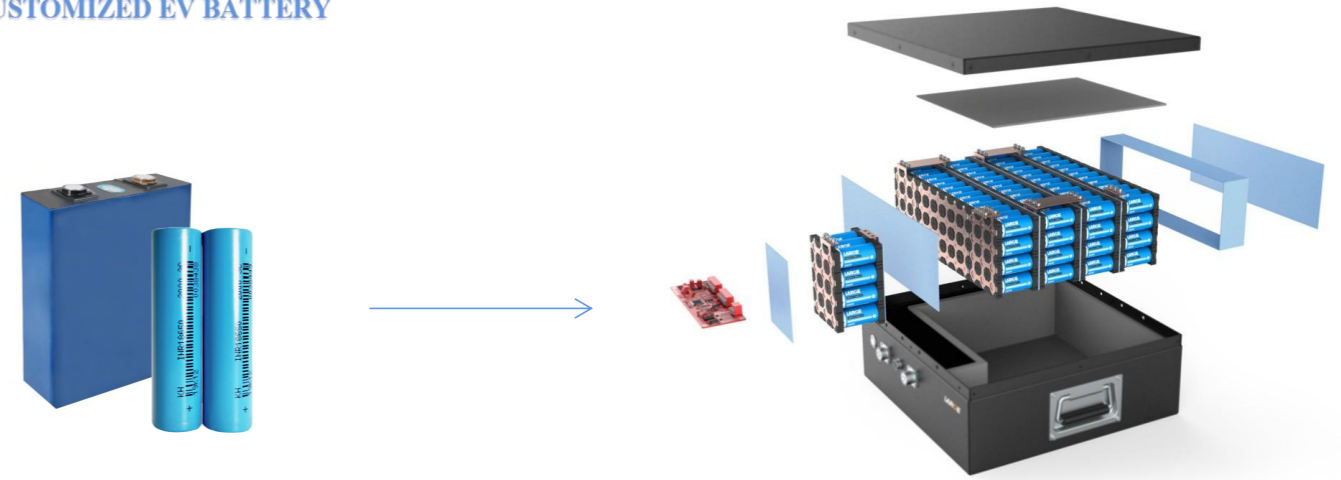


SILVERFISH4810 HAILONG3615 KH-EV 6020 KH-EV7220 KH-EV48200

1	SILVERFISH 4810	HAILONG3615	KH-EV 6020	KH-EV7220	KH-EV48200
General characteristic					
Nominal Voltage	48V	36V	60V	72V	48V
Nominal capacity	10AH	15AH	20AH	20AH	200AH
Nominal energy	480WH	540WH	1200WH	1400WH	9600WH
Dimension(L*W*H, MM)	325*110*65	367*111*90	230*185*171	249*211*171	930*230*200
Approx.weight	3.1KG	5KG	9KG	10KG	88KG
Connect method	13S4P	10S6P	17S8P	20S10P	16S1P
Cell	18650	18650	18650	18650	3.2V200AH
Material	NCM	NCM	NCM	LiFePO4	
Electrical characteristics					
End of charge voltage(cell)	4.25V			3.75V	
End of discharge voltage(cell)	2.75V			2.1V	
Charging mode	CC/CV			CC/CV	
Charging cut-off current	0.02C			0.02C	
Continuous charge current	5A	10A	10A	10A	30A
Continuous discharge current	5A	10A	10A	10A	30A
Max pulse discharge current	10A	20A	20A	20A	100A
Operating temperature(charge)	0°C ~ 45°C			0°C ~ 55°C	
Operating temperature(discharge)	-10°C ~60°C			-20°C ~60°C	
Storage temperature	-20°C ~ 45°C			-20°C ~ 60°C	
Cycle lfe(25°C@80%DOD,0.2C)	800 times			4000 times	
Cycle lfe(25°C@100%DOD,0.2C)	700 times			2000 times	

Please contact KH for more models beyond the lists

CUSTOMIZED EV BATTERY



CELL

EV BATTERY

KEHENG can provide customized services for all kinds of EV battery. At now, we succeeded to provide 36V 48V 60V 72V battery for E-bike,E-motocycle, E-tricycle, Electric Van etc.

Main Features

- Customized size
- Customized voltage
- Customized capacity
- Built-in smart BMS
- Highest safe chemistry with high enery density
- Low self-discharge character

Applications

- E-Bus
- Golf-Carts
- E-Motocycle
- Robots
- Medical Equipment
- Electric Van
- Lead Acid Replacement

Case



Application: E-Bike
Voltage: 36V
Capacity: 10.4AH
Cell: 3.7V 2600mah 18650 cell
Pack: 10S4P



Application: Electric Van
Voltage: 48V
Capacity: 200AH
Cell: 3.2V 200AH prismatic cell
Pack: 16S1P

LiFePO4 LITHIUM BATTERY (KH-LFP SERIES)



KH-LFP0605



KH-LFP1206



KH-LFP1210



KH-LFP1212



KH-LFP1250

Model	KH-LFP0605	KH-LFP1206	KH-LFP1210	KH-LFP1212	KH-LFP1250
General characteristic					
Nominal Voltage	6.4V	12.8V	12.8V	12.8V	12.8V
Nominal capacity	4.8AH	6AH	10AH	12AH	50AH
Nominal energy	30.7WH	76.8WH	128WH	153.6WH	640WH
Dimension(L*W*H, MM)	70*47*100	151*65*94	181*77*170	151*99*99	229*138*208
Approx.weight	0.4KG	0.8KG	0.98KG	1.5KG	5.7KG
Case	Plastic				
Material	LiFePO4				
Electrical characteristics					
End of charge voltage(cell)	3.75V				
End of discharge voltage(cell)	2.1V				
Continuous charge current	3A	3A	5A	6A	25A
Continuous discharge current	3A	3A	5A	6A	25A
Max pulse discharge current	6A	6A	10A	12A	50A
Internal resistance	90mΩ	80mΩ	70mΩ	70mΩ	60mΩ
Operating temperature(charge)	0°C ~ 55°C				
Operating temperature(discharge)	-30°C ~ 55°C				
Storage temperature	-20°C ~ 60°C				
Cycle lfe	7000 times(25°C@50%DOD,0.2C) 4000 times(25°C@80%DOD,0.2C) 2000 times(25°C@100%DOD,1C)				

Please contact KH for more models beyond the lists

LiFePO4 LITHIUM BATTERY (KH-LFP SERIES)



KH-LFP1284



KH-LFP12100



KH-LFP12120



KH-LFP12150



KH-LFP12200

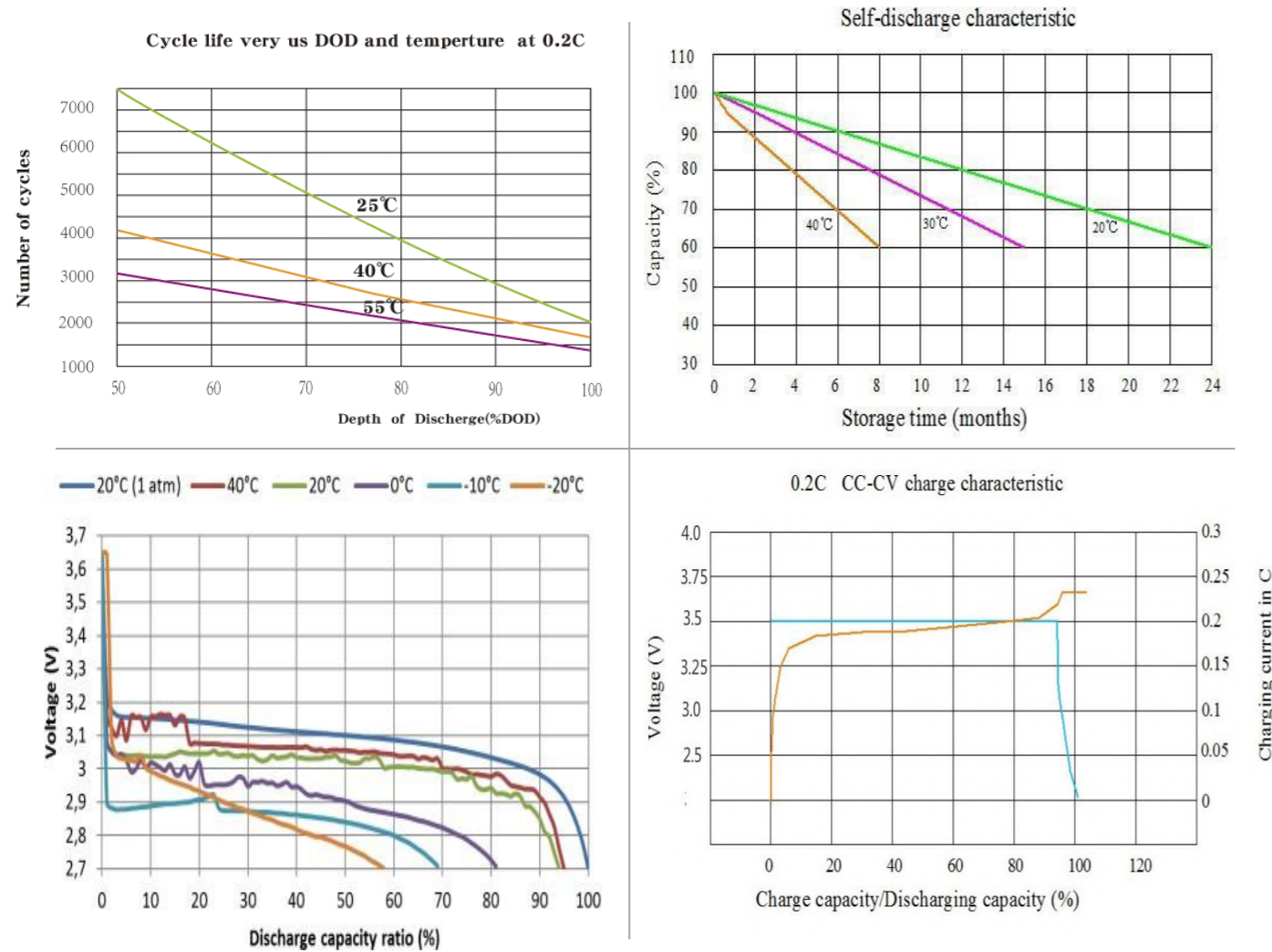
Model	KH-LFP1284	KH-LFP12100	KH-LFP12120	KH-LFP12150	KH-LFP12200
General characteristic					
Nominal Voltage	12.8V	12.8V	12.8V	12.8V	12.8V
Nominal capacity	84AH	100AH	120AH	150AH	200AH
Nominal energy	840WH	1200WH	1440WH	1800WH	2400WH
Dimension(L*W*H, MM)	260*168*210	260*168*210	307*169*208	483*170*240	483*170*240
Approx.weight	10.2KG	11.1KG	12.7KG	17.2KG	19.5KG
Case	Plastic				
Material	LiFePO4				
Electrical characteristics					
End of charge voltage(cell)	3.75V				
End of discharge voltage(cell)	2.1V				
Continuous charge current	42A	50A	60A	75A	100A
Continuous discharge current	42A	50A	60A	75A	100A
Max pulse discharge current	84A	100A	120A	150A	200A
Internal resistance	50mΩ	45mΩ	35mΩ	30mΩ	30mΩ
Operating temperature(charge)	0°C ~ 55°C				
Operating temperature(discharge)	-30°C ~ 55°C				
Storage temperature	-20°C ~ 60°C				
Cycle lfe	7000 times(25°C@50%DOD,0.2C) 4000 times(25°C@80%DOD,0.2C) 2000 times(25°C@100%DOD,1C)				

Please contact KH for more models beyond the lists

LiFePO4 LITHIUM BATTERY

Lead acid replacement series are all made by LiFePO4 material, with long cycle life, the case are all compatible with Seal Lead Acid battery, the voltage and capacity can be customized according to different requirement. 12V series are widely used for solar light, Low speed EVs, golf carts, etc.

Protection BMS function: Overcharge detection function /Over discharge detection function) /Over current detection function/ Short detection function /Temperature detection function /Balance function



Main Features

- LiFePO4 battery
- 7000 cycle life@50%DOD
- Highest safe chemistry with high enery density
- Built-in protection BMS
- Maintenance free
- No memory effect
- High energy density
- Low internal resistance
- Low self-discharge character
- Light weight, about 40%~50% of the weight of SLA battery
- Same case with SLA battery

Applications

- Golf-Carts
- E-tricycle
- Robots
- Solar Street Lighting
- Lead Acid Replacement
- Energy Storage System
- Uninterrupted Power Supply

FRONT TERIMINAL LIFEPO4 LITHIUM BATTERY (KH-LFP SERIES)



KH-LFP12-42



KH-LFP12-96



KH-LFP12-100

Model	KH-LFP12-42	KH-LFP12-96	KH-LFP12-100
General characteristic			
Nominal Voltage	12.8V	12.8V	12.8V
Nominal capacity	42H	96AH	100AH
Nominal energy	504WH	1152WH	1200WH
Dimension(L*W*H, MM)	275*105*225	400*115*290	555*115*240
Approx.weight	6.5KG	12.5KG	13KG
Case	Plastic		
Material	LiFePO4		
Electrical characteristics			
End of charge voltage(cell)	3.75V		
End of discharge voltage(cell)	2.1V		
Continuous charge current	21A	48A	50A
Continuous discharge current	41A	96A	100A
Max pulse discharge current	82A	198A	200A
Internal resistance	60mΩ	48mΩ	45mΩ
Operating temperature(charge)	0°C ~ 55°C		
Operating temperature(discharge)	-30°C ~ 55°C		
Storage temperature	-20°C ~ 60°C		
Cycle lfe	7000 times(25°C@50%DOD,0.2C) 4000 times(25°C@80%DOD,0.2C) 2000 times(25°C@100%DOD,1C)		

Please contact KH for more models beyond the lists

Applications



Solar system



Data center



Lighting



Communication system



Storage system



Uninterruptible power supply



Power control system



Fire alarm system



Marine equipment



KH-P02



KH-D300



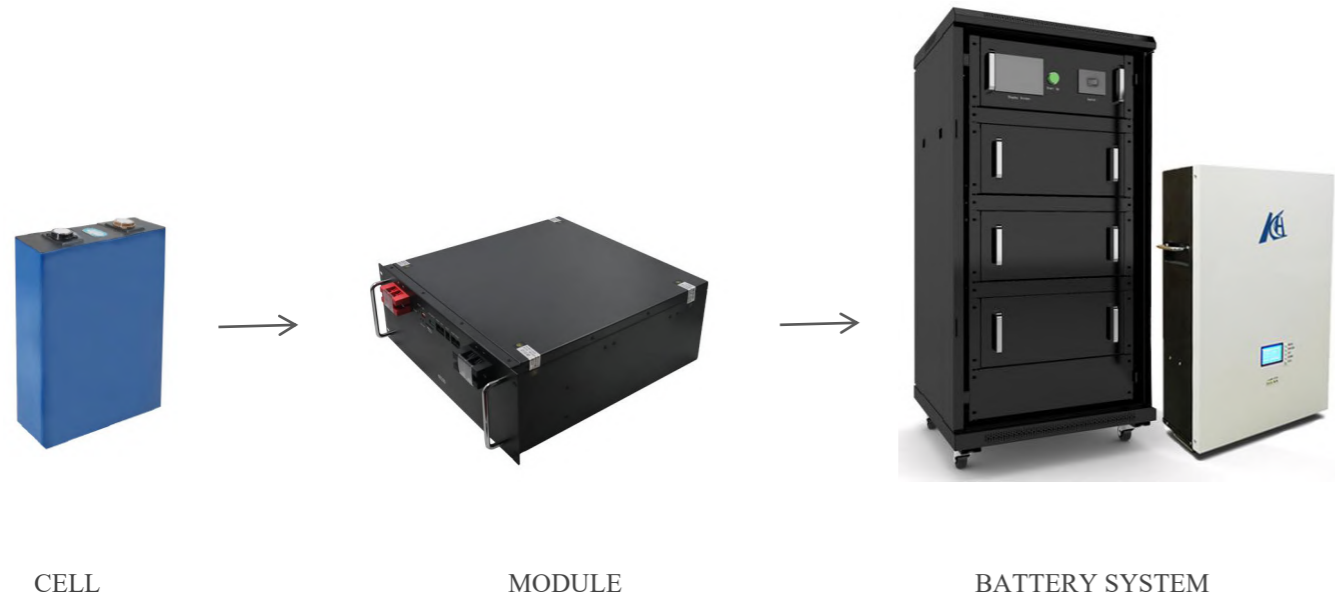
KH-ES700



KH-D1000

Model	KH-P02	KH-D300	KH-ES700	KH-D1000
General characteristic				
Battery capacity	30000mAh /111Wh	75000mAh /278Wh	192000mAh /710.4Wh	180000mAh /666Wh
DC Charging spec	DC 12.6V/1~3A	DC 15V/3A	/	DC 15V/5A
AC Charging spec	/	/	AC 110V~220V 50/60Hz	100V~220V /50Hz
Solar Charging spec	DC 12~13V/1~3A	DC 18V/3A	DC 12~13V/7A	DC 13V~22V/5A
Charging time	6~10h	9~11h	7~9h	12~14h
USB output	2xUSB 5V/2.4A(MAX)	1xUSB 5V/2.4A 1xUSB 5V/3A 9V/2A 12V/1.5A(QC3.0) 1xType-C 5V/3A 9V/2A 12V/1.5A(QC3.0)	2x12V/10A 1xUSB 5V/3A	3xUSB 5V/2.4A 1xUSB 5V/3A 9V/2A 12V/1.5A(QC3.0)
DC output	Car ignition EC5 12V/600A (700A MAX) DC 12V/6A(MAX)	DC 12V/8A	DC 12V/10A	DC 12V/10A
Material	LiFePO4	NCM	NCM	NCM
AC output	220V/50Hz 110V/60Hz	220V/50Hz 110V/60Hz	220V/50Hz 110V/60Hz	220V/50Hz 110V/60Hz
Car charge output	/	12V/10A	12V7.5A	12V/10A
AC Continuous output power	200W	300W	700W,	1000W
AC Pulse output power	200W	400W	700W	1000W
Lighting	8W LED light	3V/1W LED	3V/1W LED	/
Working temperature	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C
Cycle life	>1000 times	>500 times	>800 times	>500 times
Packing list	1 x Powerstation 1 x Adapter 1 x Car ignition wire 1 x Manual	1 x Powerstation 1 x Adapter 1 x Manual	1xUPS Power mainframe 1xAC power line 1xCar charging line 1xDC adapter line 1 x Manual	1 x Powerstation 1 x Adapter 1 x Car charger 1 x Manual
Certifications	CE/FCC/RoHS/PSE/MSDS/UN38.3			
Protection	Overcharge detection function /Over discharge detection function) /Over current detection function/ Short detection function /Temperature detection function			

RESIDENTIAL SOLAR ENERGY STORAGE



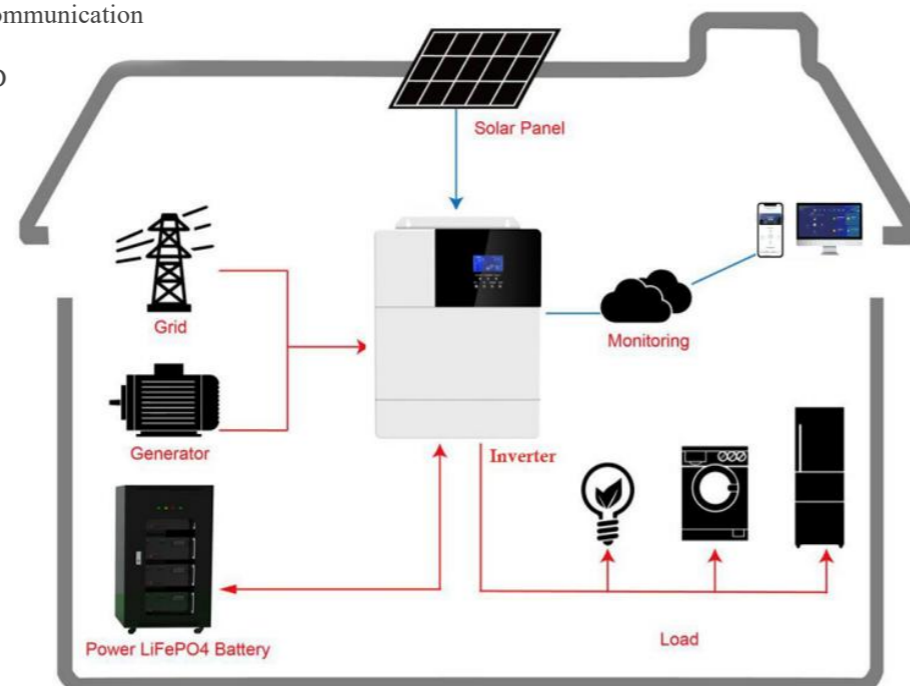
KEHENG 48V series LiFePO4 battery is specially developed to provide reliable backup power for residential solar energy storage systems. Multiple storage batteries can be integrated as battery system in parallel connections with intelligent centralized monitoring and installed in standard cabinet(3U/4U/5U), the maximum parallel connection can be 16 units and easily build up a system of 76.8kWh.

Main Features

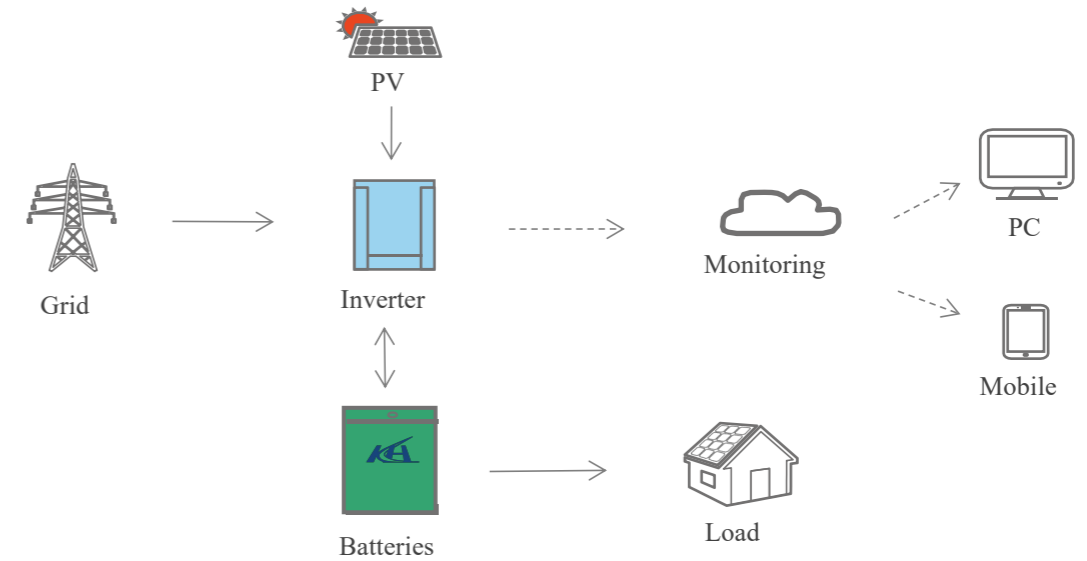
- Highest lithium chemistry with LiFePO4 material
- High energy density with small volume
- Built-in intelligent BMS for battery system
- Standard 19-inch rack-mount durable enclosure for plug and play replacement
- Maximum parallel connection up to 16 units(76.8KWH)
- Equipped with RS485/RS232/CAN communication
- Remote monitoring function
- 7000 times long cycle life @50%DOD

BMS Function

- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Short detection function
- Temperature detection function
- Balance function
- Communicate function
- Alarm function

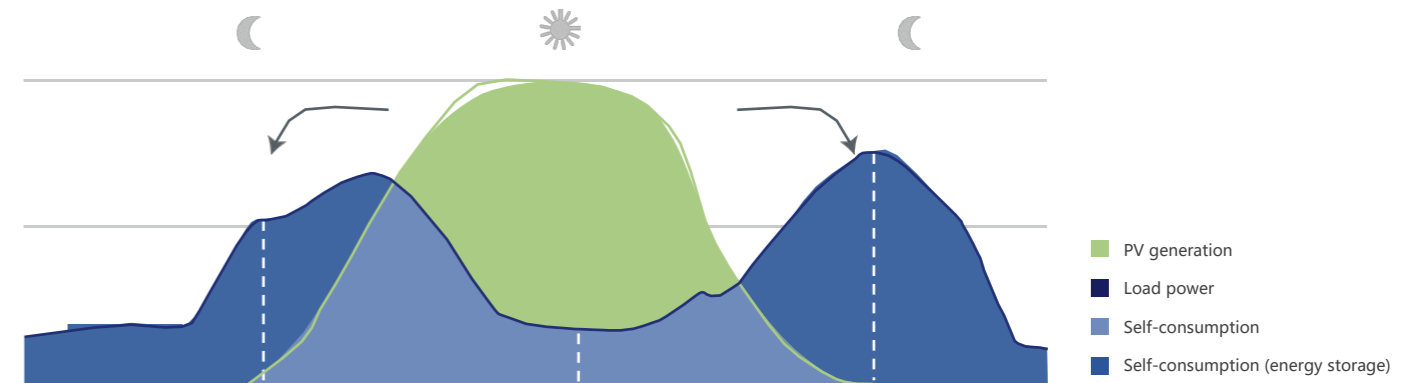


RESIDENTIAL SOLAR ENERGY STORAGE



Keheng residential energy storage system is a green, efficient, advanced and safe energy supplying system, which saves home electricity cost by storing energy from off-peak hours and surplus clean energy generated from photovoltaic system, and powering the household during peak hours or blackout.

Integrated with solar power generation system, lithium-ion battery energy storage system and home energy management system, the solution is expandable on demand and has a variety of combinations. Flexible, efficient and customized products and services, it is friendly to home users to build his or her clean, independent and economic energy micro-grid solutions.



During the day, The PV will generate energy and charge the battery and provide electricity to load. When the battery full charged, the extra electricity will be send to distribution network.

During the night, the battery will provide electricity to the load, when the electricity use up, then the Inverter will connect with commercial Mains to provide electricity to load.

Main Features

- 5KWH, 10KWH, 20 KWH capacity optional.
- On-grid or off-grid operation for various application
- Real-time remote monitoring
- Quick installation and easy operation
- Stable power supply and high safety
- Long cycle life

48V MODULE (KH-ES SERIES)



KH-ES4850



KH-ES48100



KH-ES48200

Model	KH-ES4850	KH-ES48100	KH-ES48200
General characteristic			
Nominal Voltage	48V	48V	48V
Nominal capacity	50AH	100AH	200AH
Min capacity	49.5AH	99AH	198AH
Nominal energy	2400WH	4800WH	9600WH
Dimension(L*W*H)	482*400*133MM	483*459*175MM	483*650*220MM
Approx.weight	31.5KG	49.5KG	78KG
Electrical characteristics			
End of charge voltage	58.4V	58.4V	58.4V
End of discharge voltage	42V	42V	42V
Continuous charge current	25A	50A	100A
Continuous discharge current	50A	100A	140A
Max pulse discharge current	150A	300A	600A
Standard charge method	CC/CV	CC/CV	CC/CV
Internal resistance	80mΩ	70mΩ	60mΩ
Operating temperature(charge)	0°C ~ 55°C	0°C ~ 55°C	0°C ~ 55°C
Operating temperature(discharge)	-30°C ~ 55°C	-30°C ~ 55°C	-30°C ~ 55°C
Storage temperature	-40°C ~ 60°C	-40°C ~ 60°C	-40°C ~ 60°C
Storage duration	12 months@25°C	12 months@25°C	12 months@25°C
Cycle life(25°C@50%DOD,0.2C)	7000 times	7000 times	7000 times
Cycle life(25°C@80%DOD,0.2C)	4000 times	4000 times	4000 times
Certification	CE/UN38.3/MSDS	CE/UN38.3/MSDS	CE/UN38.3/MSDS
Communication	RS485/RS232/CAN	RS485/RS232/CAN	RS485/RS232/CAN
Display	LED light	LED light	LED light
Parallel connection	Maxium 16 units	Maxium 16 units	Maxium 16 units
Cooling method	Natural cooling	Natural cooling	Natural cooling

48V BATTERY (KH-ES SERIES)



KH-ES5KPW



KH-ES10KPW



KH-ES20KPT

Model	KH-ES5KPW	KH-ES10KPW	KH-ES20KPT
General characteristic			
Nominal Voltage	48V	48V	48V
Nominal capacity	100AH	200AH	400AH
Min capacity	99AH	198AH	396AH
Nominal energy	4.8KWH	9.6KWH	19.2KWH
Dimension(L*W*H)	442*410*220MM	485*650*220MM	600*600*1100MM
Approx.weight	54.5KG	83KG	220KG
Electrical characteristics			
End of charge voltage	58.4V	58.4V	58.4V
End of discharge voltage	42V	42V	42V
Continuous charge current	50A	100A	200A
Continuous discharge current	100A	140A	300A
Max pulse discharge current	200A	300A	400A
Standard charge method	CC/CV	CC/CV	CC/CV
Internal resistance	70mΩ	60mΩ	60mΩ
Operating temperature(charge)	0°C ~ 55°C	0°C ~ 55°C	0°C ~ 55°C
Operating temperature(discharge)	-30°C ~ 55°C	-30°C ~ 55°C	-30°C ~ 55°C
Storage temperature	-40°C ~ 60°C	-40°C ~ 60°C	-40°C ~ 60°C
Storage duration	12 months@25°C	12 months@25°C	12 months@25°C
Cycle life(25°C@50%DOD,0.2C)	7000 times	7000 times	7000 times
Cycle life(25°C@80%DOD,0.2C)	4000 times	4000 times	4000 times
Certification	CE/UN38.3/MSDS	CE/UN38.3/MSDS	CE/UN38.3/MSDS
Communication	RS485/RS232/CAN	RS485/RS232/CAN	RS485/RS232/CAN
Display	LED light	LED light	LED light
Parallel connection	Maxium 16 units	Maxium 16 units	/
Cooling method	Natural cooling	Natural cooling	Natural cooling

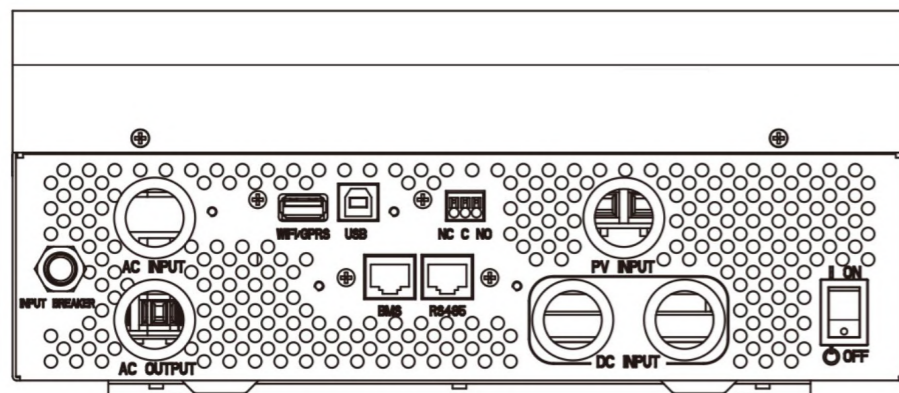


3kw Inverter+5kwh Battery

Main Features

- 110V@60HZ, Rated power 3KW
- 5KWH LiFePO4 batteries with 7000cycle life@50%DOD
- Built-in MPPT solar charge controller
- High frequency inverter with compact design
- Pure sine wave AC output
- Wall mounted and easy installation
- Fast and easy commissioning via front panel
- LCD or APP/WIFI/GPRS remote monitoring
- RS485/CAN communication with BMS
- Integrated advanced energy management system

This is multifunctional off-grid inverter with long-cycle life LiFePO4 batteries, integrated with a MTTP solar charge controller, a high frequency pure sine wave inverter and a UPS function module in one machine, which is a perfect for off grid backup power and self-consumption applications.



Bottom view of Inverter

INVERTER SPECIFICATION			
Model	MHP 3000LV-48	DC voltage	48VDC
PV INPUT			
Max. voltage	145V	Max.PV array power	4500W
Max.current	80A	MPPT working voltage	60-115Vdc
AC OUTPUT			
AC voltage	110/120VAC	Rated power	3000VA/3000W
Peak efficiency	93%	Monitoring operation	WIFI or GPRS
Transfer Times	10ms~20ms	Frequency range	50/60HZ
AC INPUT			
AC input voltage range	65~140VAC	MAX. AC charge current	40A
GENERAL			
Charge temperature	0°C~50°C	Dimension (H*W*D)	455*295*130mm
Discharge temperature	-15°C~60°C	Cooling method	Natural air cooling
Communication	RS485/USB/Wifi	Weight	11.5KG
Humidity range	5%~95% relative	Warrenty	2 years
BATTERY SPECIFICATION			
Norminal voltage	48V	Norminal capacity	100AH
Battery type	Lithium battery (LiFePO4)	Energy	4.8KWH
Max current	Charge 50A Discharge :100A	Working temperature	Charge: -10~55°C Discharge: -20~60°C
Dimension (H*W*D)	442*410*220mm	Cycle life	4000 times@80%DOD
Weight	38KG around	Warrenty	5 years
Protection function	Overcharge protection, Over discharge protection, Over current protection, Short protection, Over temperature protection, Balance function, Communicate function, Alarm function		

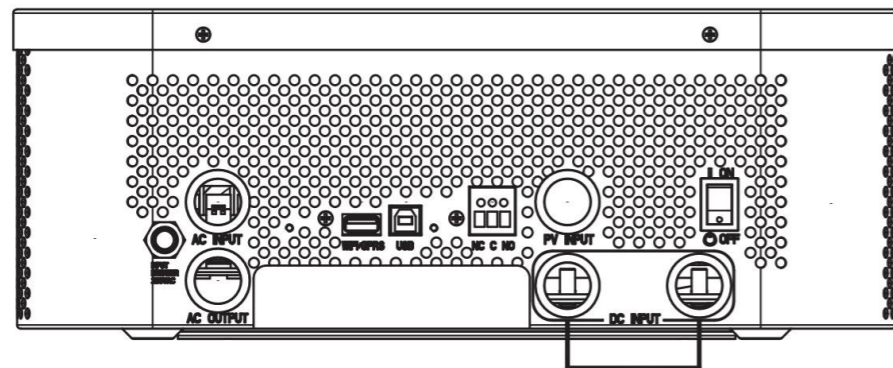


5kw Inverter+10kwh Battery

Main Features

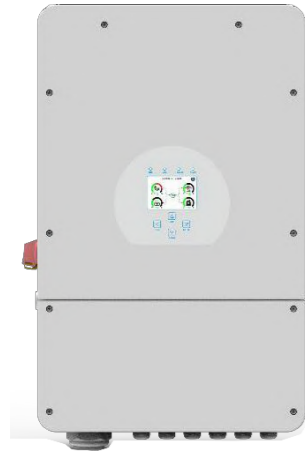
- 110V@60HZ, Rated power 5KW
- 10KWH LiFePO4 batteries with 7000cycle life@50%DOD
- Built-in MPPT solar charge controller
- High frequency inverter with compact design
- Pure sine wave AC output
- Wall mounted and easy installation
- Fast and easy commissioning via front panel
- LCD or APP/WIFI/GPRS remote monitoring
- RS485/CAN communication with BMS
- Integrated advanced energy management system

This is multifunctional hybrid inverter with long-cycle life LiFePO4 batteries, integrated with a MTTP solar charge controller, a high frequency pure sine wave inverter and a UPS function module in one machine, which is a perfectet for hybrid backup power and self-consumption applications.



Bottom view of Inverter

INVERTER SPECIFICATION			
Model	KH-SUN-5K-SG01LP1-US	DC voltage	48VDC
PV INPUT			
Max. voltage	500V	Max.PV array power	6500W
Max.current	11A+11A	MPPT working voltage	125-425Vdc
AC OUTPUT			
AC voltage	120Vac(split phase)	Rated power	5000VA/5000W
Peak efficiency	97.6%	Monitoring operation	WIFI or GPRS
Transfer Times	10ms~20ms	Frenquency range	50/60HZ
AC INPUT			
AC input voltage range	120Vac(split phase)	MAX. AC charge current	25A
GENERAL			
Charge temperature	0°C~50°C	Dimension (H*W*D)	680*420*233mm
Discharge temperature	-15°C~60°C	Cooling method	Natural air cooling
Communication	RS485/USB/Wifi	Weight	32KG
Humidity range	5%~95% relative	Warrenty	5 years
BATTERY SPECIFICATION			
Nominal voltage	48V	Norminal capacity	200AH
Battery type	Lithium battery (LiFePO4)	Energy	9.6KWH
Max current	Charge 100A Discharge :200A	Working temperature	Charge: -10~55°C Discharge: -20~60°C
Dimension (H*W*D)	485*650*220mm	Cycle life	4000 times@80%DOD
Weight	78KG around	Warrenty	5 years
Protection function	Overcharge protection, Over discharge protection, Over current protection, Short protection, Over temperature protection, Balance function, Communicate function, Alarm function		

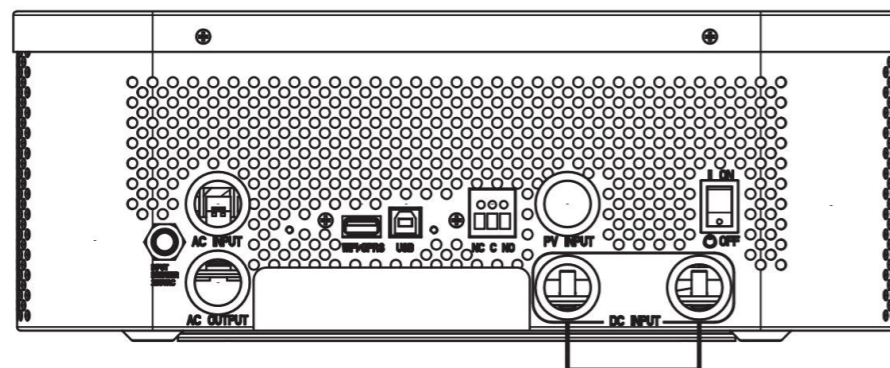


8kw Inverter+20kwh Battery

Main Features

- 110V@60HZ, Rated power 8KW
- 20KWH LiFePO4 batteries with 7000cycle life@50%DOD
- Built-in MPPT solar charge controller
- High frequency inverter with compact design
- Pure sine wave AC output
- Wall mounted and easy installation
- Fast and easy commissioning via front panel
- LCD or APP/WIFI/GPRS remote monitoring
- RS485/CAN communication with BMS
- Integrated advanced energy management system

This is multifunctional hybrid inverter with long-cycle life LiFePO4 batteries, integrated with a MTTP solar charge controller, a high frequency pure sine wave inverter and a UPS function module in one machine, which is a perfect for hybrid backup power and self-consumption applications.



Bottom view of Inverter

INVERTER SPECIFICATION			
Model	KH-SUN-8K-SG01LP1-US	DC voltage	48VDC
PV INPUT			
Max. voltage	500V	Max.PV array power	10400W
Max.current	18+18A	MPPT working voltage	125-425Vdc
AC OUTPUT			
AC voltage	120Vac(split phase)	Rated power	8000VA/8000W
Peak efficiency	>98%	Monitoring operation	WIFI or GPRS
Transfer Times	10ms~20ms	Frenquency range	50/60HZ
AC INPUT			
AC input voltage range	120Vac(split phase)	MAX. AC charge current	50A
GENERAL			
Charge temperature	0°C~50°C	Dimension (H*W*D)	680*420*233mm
Discharge temperature	-15°C~60°C	Cooling method	Natural air cooling
Communication	RS485/USB/Wifi	Weight	32KG
Humidity range	5%~95% relative	Warrenty	5 years
BATTERY SPECIFICATION			
Nominal voltage	48V	Norminal capacity	400AH
Battery type	Lithium battery (LiFePO4)	Energy	19.2KWH
Max current	Charge 200A Discharge :400A	Working temperature	Charge: -10~55°C Discharge: -20~60°C
Dimension (H*W*D)	600*600*1100mm	Cycle life	4000 times@80%DOD
Weight	170KG around	Warrenty	5 years
Protection function	Overcharge protection, Over discharge protection, Over current protection, Short protection, Over temperature protection, Balance function, Communicate function, Alarm function		

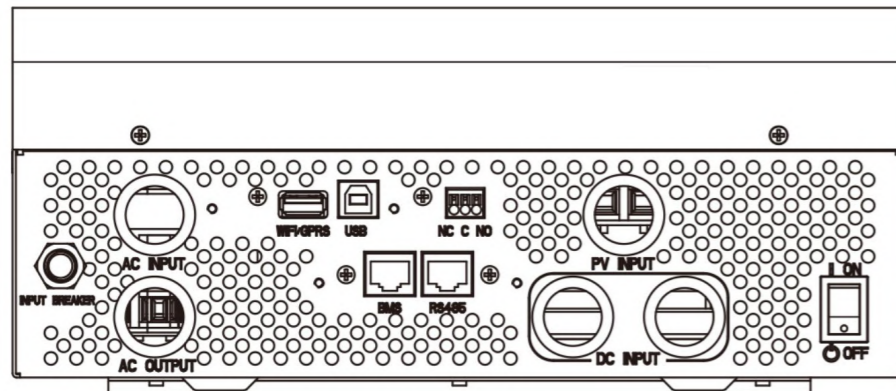


3kw Inverter+5kwh Battery

Main Features

- 220V@50HZ, Rated power 3KW
- 5KWH LiFePO4 batteries with 7000cycle life@50%DOD
- Built-in MPPT solar charge controller
- High frequency inverter with compact design
- Pure sine wave AC output
- Wall mounted and easy installation
- Fast and easy commissioning via front panel
- LCD or APP/WIFI/GPRS remote monitoring
- RS485/CAN communication with BMS
- Integrated advanced energy management system

This is multifunctional off-grid inverter with long-cycle life LiFePO4 batteries, integrated with a MTTP solar charge controller, a high frequency pure sine wave inverter and a UPS function module in one machine, which is a perfect for off grid backup power and self-consumption applications.



Bottom view of Inverter

INVERTER SPECIFICATION			
Model	SPF-3000TL	DC voltage	48VDC
PV INPUT			
Max. voltage	145V	Max.PV array power	1800W
Max.current	30A	MPPT working voltage	60-115Vdc
AC OUTPUT			
AC voltage	220/230VAC	Rated power	3000VA/3000W
Peak efficiency	93%	Monitoring operation	WIFI or GPRS
Transfer Times	10ms~20ms	Frenquency range	50/60HZ
AC INPUT			
AC input voltage range	170~280VAC	MAX. AC charge current	15A
GENERAL			
Charge temperature	0°C~50°C	Dimension (H*W*D)	455*295*130mm
Discharge temperature	-15°C~60°C	Cooling method	Natural air cooling
Communication	RS485/USB/Wifi	Weight	8.5KG
Humidity range	5%~95% relative	Warrenty	2 years
BATTERY SPECIFICATION			
Nominal voltage	48V	Norminal capacity	100AH
Battery type	Lithium battery (LiFePO4)	Energy	4.8KWH
Max current	Charge 50A Discharge :100A	Working temperature	Charge: -10~55°C Discharge: -20~60°C
Dimension (H*W*D)	442*410*220mm	Cycle life	4000 times@80%DOD
Weight	38KG around	Warrenty	5 years
Protection function	Overcharge protection, Over discharge protection, Over current protection, Short protection, Over temperature protection, Balance function, Communicate function, Alarm function		

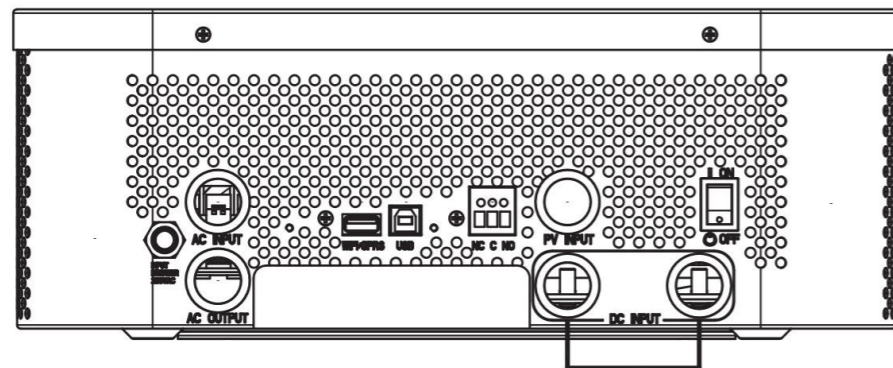


5kw Inverter+10kwh Battery

Main Features

- 220V@50HZ, Rated power 5KW
- 10KWH LiFePO4 batteries with 7000cycle life@50%DOD
- Built-in MPPT solar charge controller
- High frequency inverter with compact design
- Pure sine wave AC output
- Wall mounted and easy installation
- Fast and easy commissioning via front panel
- LCD or APP/WIFI/GPRS remote monitoring
- RS485/CAN communication with BMS
- Integrated advanced energy management system

This is multifunctional off-grid inverter with long-cycle life LiFePO4 batteries, integrated with a MTTP solar charge controller, a high frequency pure sine wave inverter and a UPS function module in one machine, which is a perfect for off grid backup power and self-consumption applications.



Bottom view of Inverter

INVERTER SPECIFICATION			
Model	KH-SPF-5000TL-HVM-WPV	DC voltage	48VDC
PV INPUT			
Max. voltage	450V	Max.PV array power	5500W
Max.current	100A	MPPT working voltage	120-430Vdc
AC OUTPUT			
AC voltage	230VAC	Rated power	5000VA/5000W
Peak efficiency	93%	Monitoring operation	WIFI or GPRS
Transfer Times	10ms~20ms	Frenquency range	50/60HZ
AC INPUT			
AC input voltage range	230VAC	MAX. AC charge current	80A
MAX. AC+PV charge current	180A		
GENERAL			
Charge temperature	0°C~50°C	Dimension (H*W*D)	485*330*135mm
Discharge temperature	-15°C~60°C	Cooling method	Natural air cooling
Communication	RS485/USB/Wifi	Weight	12KG
Humidity range	5%~95% relative	Warrenty	2 years
BATTERY SPECIFICATION			
Nominal voltage	48V	Norminal capacity	200AH
Battery type	Lithium battery (LiFePO4)	Energy	9.6KWH
Max current	Charge 100A Discharge :200A	Working temperature	Charge: -10~55°C Discharge: -20~60°C
Dimension (H*W*D)	485*650*220mm	Cycle life	4000 times@80%DOD
Weight	78KG around	Warrenty	5 years
Protection function	Overcharge protection, Over discharge protection, Over current protection, Short protection, Over temperature protection, Balance function, Communicate function, Alarm function		

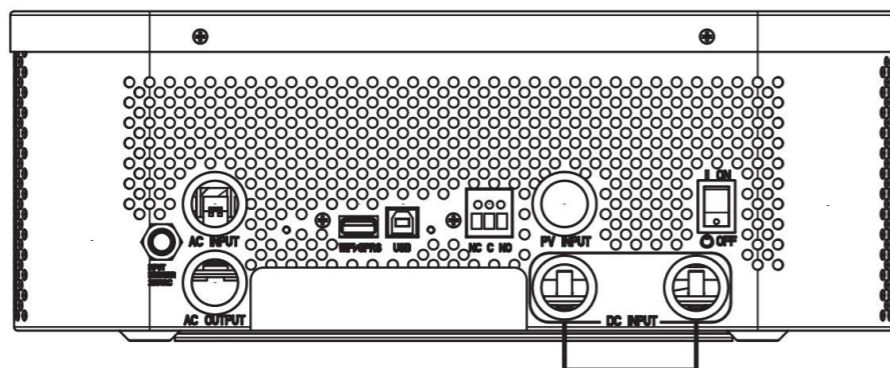


10kw Inverter+20kwh Battery

Main Features

- 220V@50HZ, Rated power 10KW
- 20KWH LiFePO4 batteries with 7000cycle life@50%DOD
- Built-in MPPT solar charge controller
- High frequency inverter with compact design
- Pure sine wave AC output
- Wall mounted and easy installation
- Fast and easy commissioning via front panel
- LCD or APP/WIFI/GPRS remote monitoring
- RS485/CAN communication with BMS
- Integrated advanced energy management system

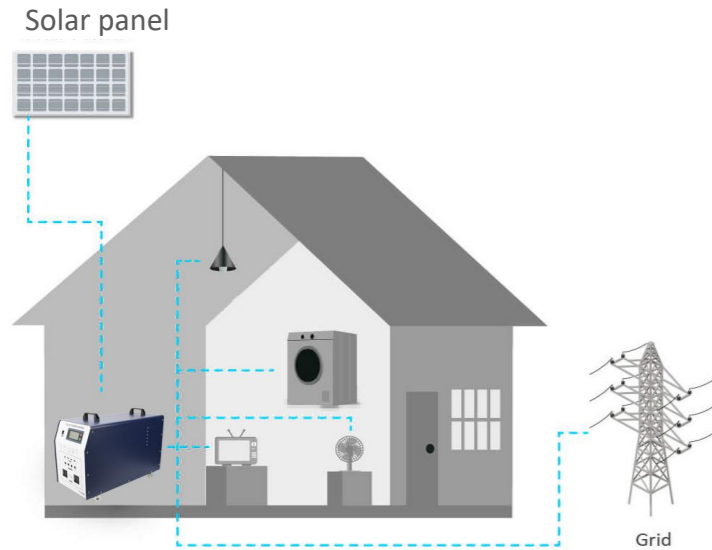
This is multifunctional off-grid inverter with long-cycle life LiFePO4 batteries, integrated with a MTTP solar charge controller, a high frequency pure sine wave inverter and a UPS function module in one machine, which is a perfect for off grid backup power and self-consumption applications.



Bottom view of Inverter

INVERTER SPECIFICATION			
Model	KH-SPF-10000T-HVM	DC voltage	48VDC
PV INPUT			
Max. voltage	150V	Max.PV array power	5000W
Max.current	80A	MPPT working voltage	60-145Vdc
AC OUTPUT			
AC voltage	230VAC	Rated power	10000VA/10000W
Peak efficiency	>98%	Monitoring operation	WIFI or GPRS
Transfer Times	10ms~20ms	Frenquency range	50/60HZ
AC INPUT			
AC input voltage range	230VAC	MAX. AC charge current	80A
MAX. AC+PV charge current	160A		
GENERAL			
Charge temperature	0°C~50°C	Dimension (H*W*D)	650*460*255mm
Discharge temperature	-15°C~60°C	Cooling method	Natural air cooling
Communication	RS485/USB/Wifi	Weight	76KG
Humidity range	5%~95% relative	Warrenty	2 years
BATTERY SPECIFICATION			
Nominal voltage	48V	Norminal capacity	400AH
Battery type	Lithium battery (LiFePO4)	Energy	19.2KWH
Max current	Charge 200A Discharge :400A	Working temperature	Charge: -10~55°C Discharge: -20~60°C
Dimension (H*W*D)	600*600*1100mm	Cycle life	4000 times@80%DOD
Weight	170KG around	Warrenty	5 years
Protection function	Overcharge protection, Over discharge protection, Over current protection, Short protection, Over temperature protection, Balance function, Communicate function, Alarm function		

1KW/1.28KWH 2.56KWH ALL IN ONE MINI ENERGY STORAGE SYSTEM (KH-A1000W)



MAIN FEATURES

- All in one solutions
- 24 hour clean energy supplying
- Automatically on/off-grid switch
- Quick charged by solar panel and Grid
- Long designed lifespan
- Environmentally friendly without pollution

KEHENG all in one mini energy storage system, is a completely power solution with built-in inverter, controller and battery inside for easy installation and operation. This system can be charged by Solar panel and Grid to work as backup power, which can keep your lights, fans, computers, phones, TVs, washing machine charged when there is sudden power shortage.

Applications



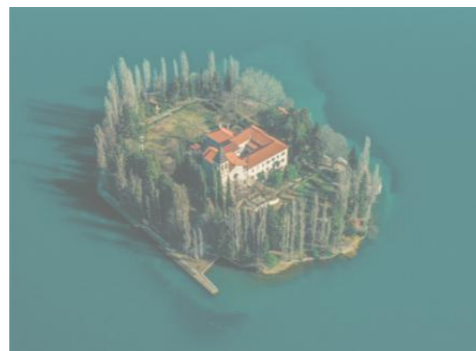
Residential energy storage



RV energy storage



Camping power



Isolated island power

1KW/1.28KWH 2.56KWH ALL IN ONE MINI ENERGY STORAGE SYSTEM (KH-A1000W)



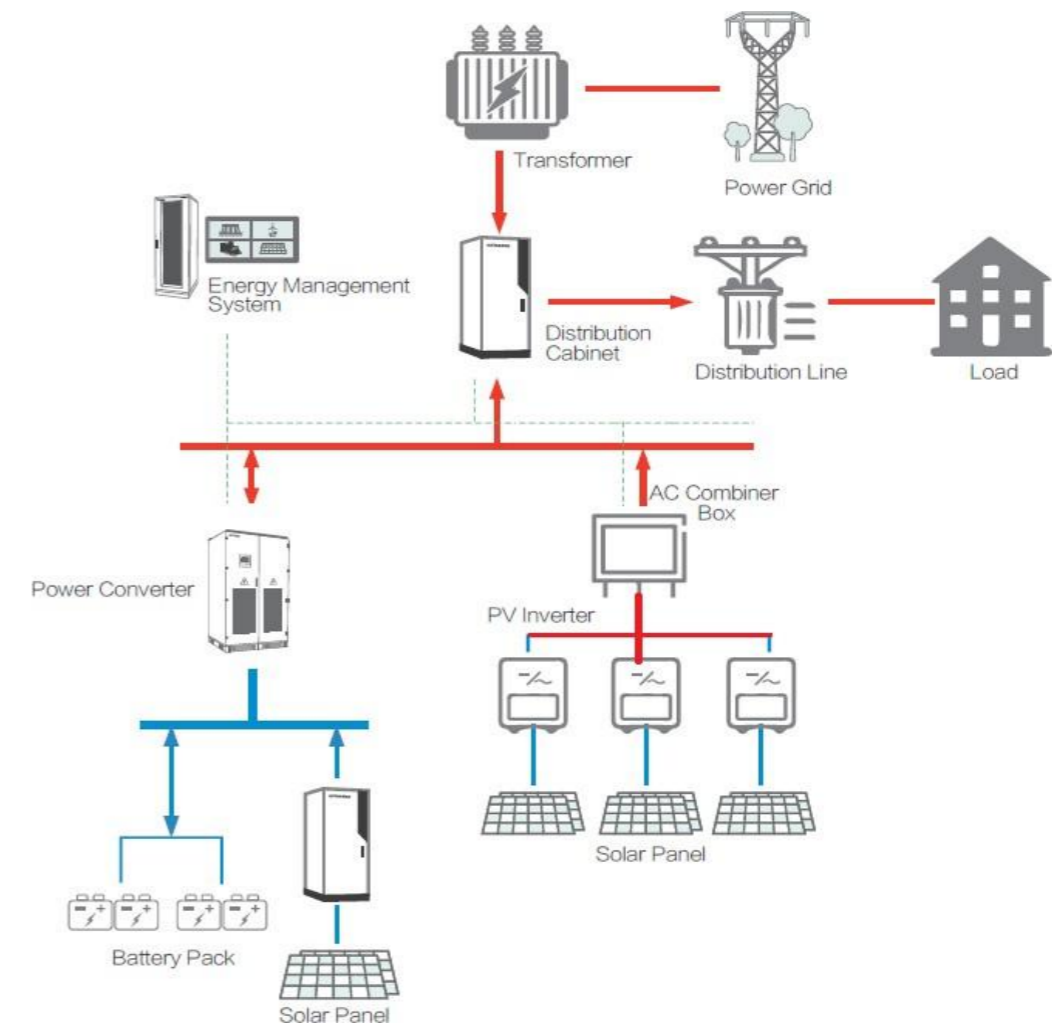
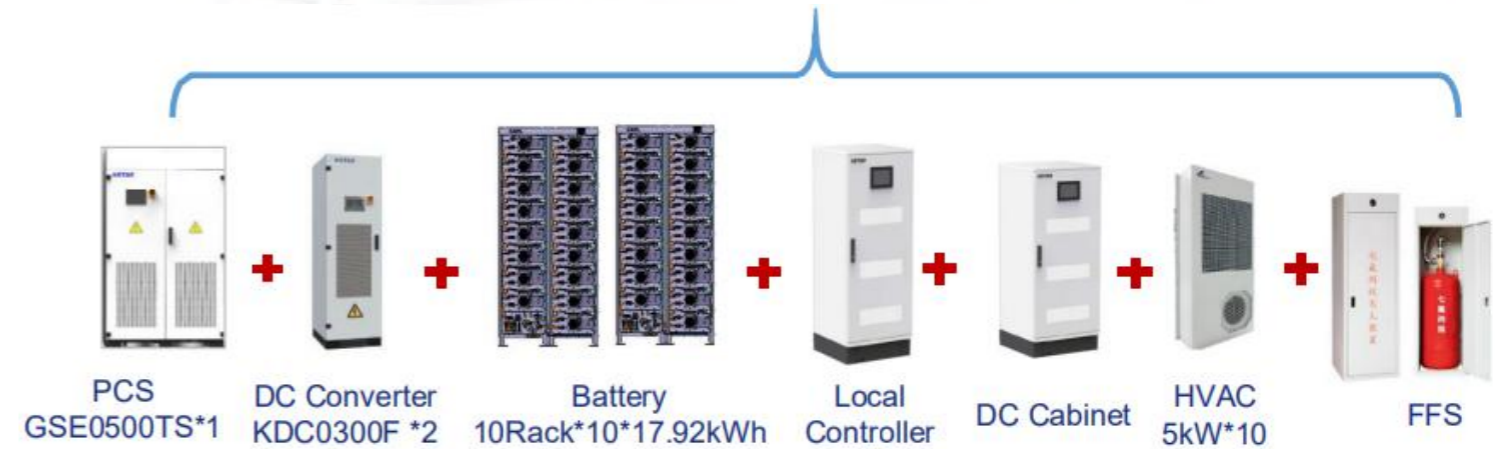
Item	1KW-1280WH	1KW-2560WH
General		
AC nominal output power	1000W(Pure sine wave)	
AC nominal voltage range	230VAC 50HZ/110VAC 60HZ	
AC nominal current	4.5A/9.1A	
Operate mode	On-grid/ Off-grid	
Working temperature	-22°F (-30°C) to 122°F (50°C)	
Dimension	44*58*26cm	
Weight	28.6kg	37.6kg
Battery		
Built in AC charger	1280WH	2560WH
Battery type	LiFePO4 lithium battery	
Components	Battery cell+ BMS+protection device(fuse)	
Life Expectancy (years)	10 years @25°C in 80%DOD (4000 times)	
Inverter		
Output	AC power	1000W 50/60HZ (2 channels)
	DC power	12V/10A (4 channels)
	USB power	5V/3A (4 channels)
Input	Solar power	18V/12A/80W-250W (1 channels)
	AC power	220V (1 channels)
	DC power	12V (4 channels) (1 channels)

5KW/20KWH ALL IN ONE BESS SYSTEM (KH-A5000W)

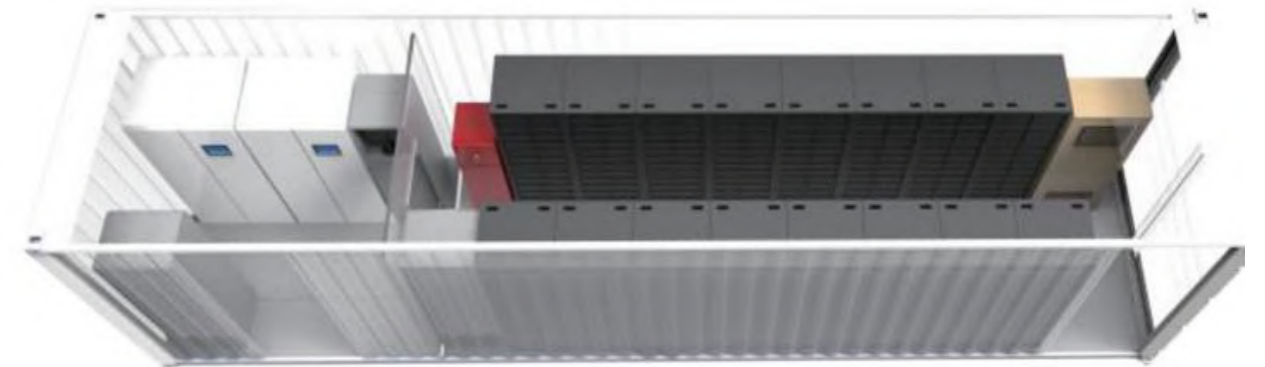
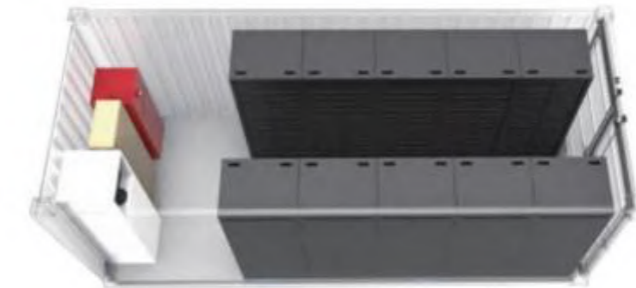
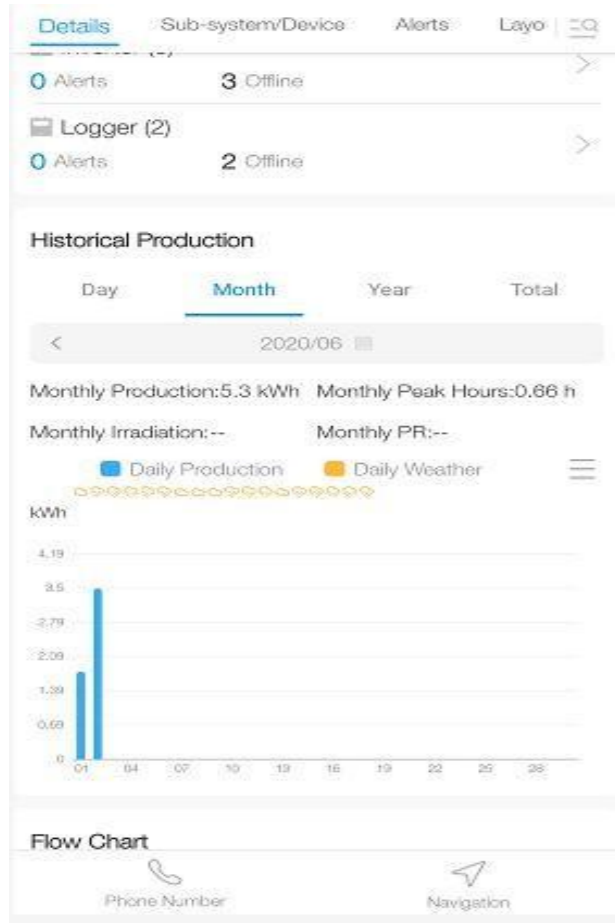


Items	Specification	Items	Specification	Items	Specification
Ac Mains Mode		Peak Power	10000VA	PV operating voltage range	60-145Vdc
Rated Input Voltage	220/230Vac	Output short circuit protection	Breaker	MPPT voltage range	60-115Vdc
Voltage Range	170-280Vac / ± 2%	By-pass circuit breaker	63A	Battery voltage range	40-60Vdc
Frequency	50Hz/60Hz	Rated voltage input	48V	maximum power output	4200W
Overload short circuit protection	Breaker	Battery voltage range	40-60Vdc	Solar maximum charging current	0-80A
Transfer Efficiency	> 95%	Ac Mains Charging Mode		Other Information	
Transition Time	10ms	Max Charge Current	60A	Specification authentication	CE (EN62109)
Ac backrigration protection	Y	Charging current error	± 5ADC	EMC Certification level	EN61000.C2
Maximum bypass current	40A	Charging voltage range	40-58Vdc	Operating Temperature range	-15-55
Inverter Operating Mode		Overload short circuit protection	Breaker , AC63A	Storage Temperature	-25-60
Output Voltage Waveform	pure sine wave	Solar Charging Mode		Cooling way	Forced air cooling
output Rating (VA)	5000	Maximum open circuit voltage	145Vdc	Communication	USB/RS485/WiFi
output Rating (W)	5000	PV Voltage Range	60-145Vdc	Net weight (kg)	13.5
Rated Output Voltage (Vac)	230Vac				
Overload Protection	102% load <125% ± 10%, alarm and shut down after 5 minutes				

CUSTOMIZED BESS SYSTEM(500KW/1750KWH)



REMOTE MONITORING BY MOBIL PHONE



KEHENG NEW ENERGY

-----SPECIALIZES IN NEW ENERGY FIELD