





To bring clean energy to every household



PRODUCT CATALOG 2024

-  Home Energy Storage System Solution
-  Industrial and commercial energy storage System Solution

Shenzhen Youess Energy Storage Technology Co., Ltd

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Company Profile

Shenzhen Youess Energy Storage Technology Co.,Ltd

Shenzhen Youess Energy Storage Technology Co.,Ltd focuses on the research and development, production and sales of photovoltaic systems and energy storage systems. The core team members have **more than 10 years** of technology research and development experience and engineering design experience in the field of photovoltaic and energy storage. We have advanced technology and equipment, and are committed to the development and application of new energy technologies to improve energy efficiency and reduce the impact on the environment.

Led by an innovative R&D team, we deliver products designed, tested and manufactured to the highest global standards. We have established long-term strategic partnerships with leading battery manufacturers and professionals with core technology and expertise in the battery field to jointly develop products with global impact.

We are a global focused service provider of photovoltaic energy storage systems, providing a full range of products such as **Lithium Batteries, solar Panels, Solar inverters, Energy Storage System**. We have a number of self-developed patents and product certificates (**UL, CE, UN38.3, MSDS, IEC, ISO, etc.**). The company's products sell well in **more than 60 countries and regions in the world**, and has set up global offices and technical **after-sales service centers in Europe, the Middle East, South Africa, Australia and other places.**

We adhere to the customer as the center, the design of practical and convenient system solutions, the production of stable and reliable good products, to provide timely and efficient after-sales service. Create a green life with clean energy, and light up the lights with photovoltaic energy storage.



Corporate mission:

To bring clean energy to every household



Corporate vision:

To become a global leader in intelligent energy



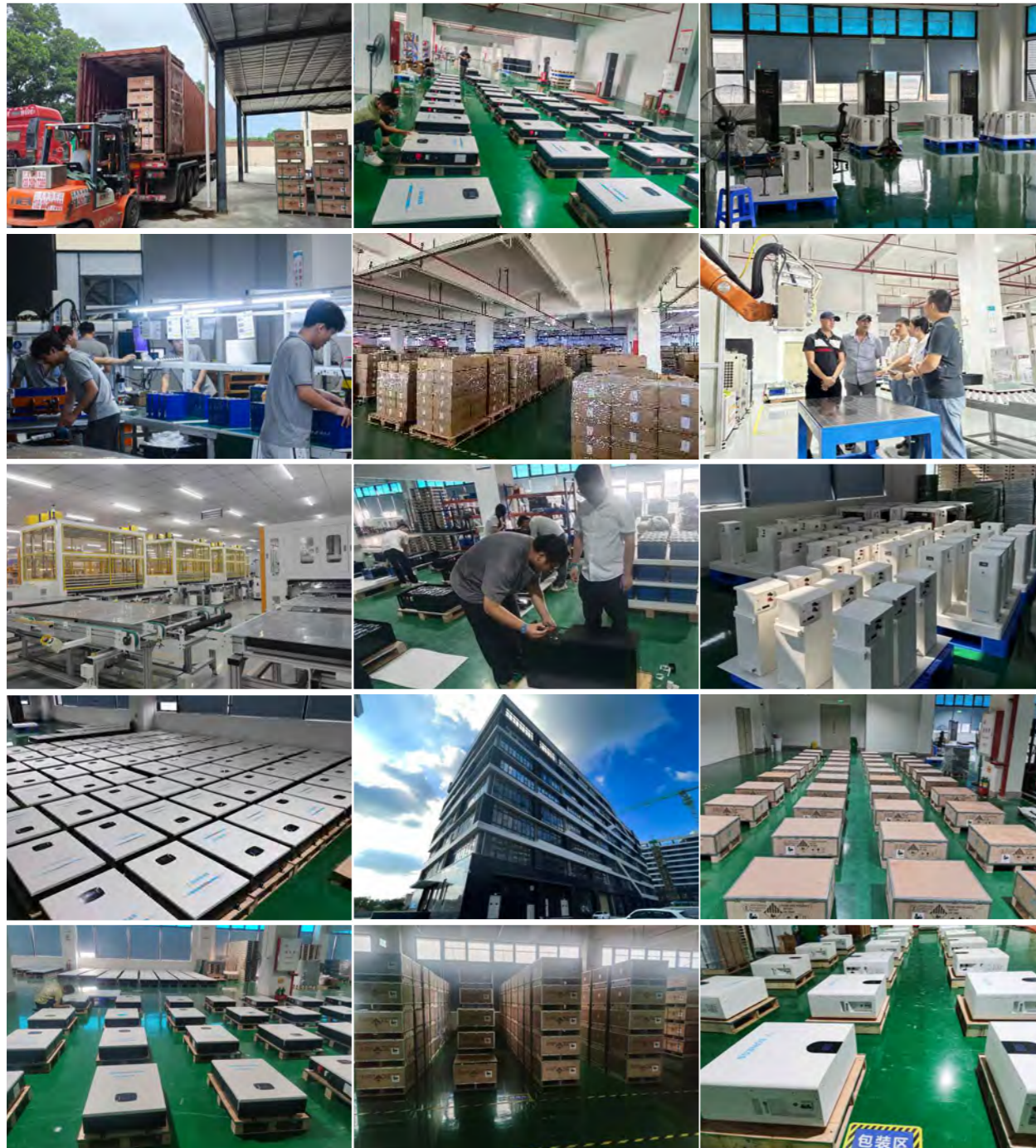
Enterprise core values:

love struggle, pragmatic and promising

Factory

High capacity, automation

Welcome to YOUESS Energy Storage Factory, where innovation meets technology. We are at the forefront of shaping the future of energy with advanced manufacturing processes and efficient production methods. From smart production lines to green and sustainable energy utilization, we are committed to creating a clean, intelligent, and sustainable energy future. Explore our state-of-the-art production facilities and witness the historic moment of the energy revolution.



Why choose us?

10+

10 years + R&D team.



The most competitive price.



24-hour online consultation.

OEM/ODM

We provide OEM/ODM service.



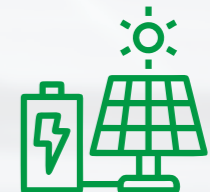
Overseas warehouse stock,
timely delivery.



Free after-sales maintenance
at global stations.



UL, CE, UN38.3, MSDS,
IEC, ISO certificates.



Provide Professional
Solar Solutions.

All-in-one

iESS Cabinet

358.4V/768V

100.35KWH/280AH · 215KWH/280AH

The logo for YOUESS, featuring a stylized green 'Y' icon followed by the word 'YOUESS' in a bold, green, sans-serif font.

All-in-one iESS Cabinet

IEC CE UN38.3

Product Feature >>>

358.4V/280AH

50kw/100kwh



Safe and reliable

High-performance battery core, cycle life >6000 times; built-in lightning protection, high-precision leakage protection; two-stage fire extinguishing system to eliminate safety hazards in time.



All-in-one design

180V-1000V ultra-wide PV voltage input, integrating PV & energy storage system; small footprint, IP54 protection level, easy to cope with outdoor installation environment.



Practical and convenient

Modular design supports parallel connection of multiple machines, and the power capacity can be expanded; the off-grid inverter has an external plug-in design, making installation and maintenance more convenient.



Smart and friendly

Intelligent monitoring supports remote & local USB upgrades; supports multiple application scenarios such as spontaneous self-use, peak and valley arbitrage, and backup power supply.



Product Data Sheet >>>

MODEL	iESS-Cube 100
Battery Data	
Battery type	LiFePO4
Battery Cell capacity	3.2V/280Ah
Battery Cell combination	1P112S
Nominal capacity	100.35kWh
Rated voltage	358.4V
Voltage rage	DC 280-408.8V
Max charge/discharge current	Rated 0.5C
DOD	95%
Cooling method	Fan Cooling
AC Output	
AC side rated power	50kW
Maximum apparent power on AC side	50kVA
Current total harmonic distortion rate	<3%
DC component	<0.5%
AC side rated voltage	AC380/400V
Allowable grid voltage range	320V-460V
Communication access method	3P+N+PE
Rated grid frequency	50/60Hz
Power factor range	1(lead)~1(lag)
System Data	
Dimensions(WxDxH)	1550*1280*1812mm
Weight	1.5t
Protection grade	Ip54
Anti-corrosion grade	C4
Operating temperature	30°C~50°C
Relative humidity	<100%
Temperature control	Industrial grade temperature controlled air conditioner
Fire protection	Aerosol
Altitude	<3000m
PCS cooling method	Temperature controlled forced air cooling
Communication protocol	MODBUS /Rs485
Communication interface	RJ45

Product Feature >>>



Safe and reliable

Equipped with a three-level fire protection system to achieve all-round protection from the inside out
BMS, PCS, EMS integrated design, 3S homologous system is safer



Multiple Benefits

Equipped with a three-level fire protection system to achieve all-round protection from the inside out
BMS, PCS, EMS integrated design, 3S homologous system is safer



Multiple Benefits

No isolation design improves system efficiency Independent single cluster battery, no circulation, reducing power loss



Convenient Application

Multi-scene application, free combination of 0.25C~0.5C
One-piece design is highly integrated, making installation and maintenance more convenient

768V/280AH

100KW/215KWH



Product Data Sheet >>>

MODEL	iESS-Cube 215
Battery Data	
Battery type	LiFePO4
Battery Cell capacity	3.2V/280Ah
Battery Cell combination	1P240S
Nominal capacity	215kWh
Rated voltage	768V
Voltage rage	DC 636-876V
Max charge/discharge current	Rated 0.5C
DOD	90%
Cooling method	Fan Cooling
AC Output	
AC side rated power	100kW
Maximum power on AC side	110kW
Current total harmonic distortion rate	<3% At rated power
DC component	<0.5%Output rated current
AC side rated voltage	380V AC
Allowable grid voltage range	320V~460V
Communication access method	3P+N+PE
Rated grid frequency	50/60Hz
Power factor range	0.98(lead)~0.98(lag)
Off-grid operation	Support
System Data	
Dimensions(WxDxH)	1600*1280*2210mm
Weight	2.5t
Protection grade	Ip54
Anti-corrosion grade	C5
Operating temperature	-20°C -55°C
Storage temperature	-30°C -55°C
Relative humidity	<100%
Temperature control	Industrial grade temperature controlled air conditioner
Fire protection	Pack aerosol + perfluorohexanone + water fire interface
Altitude	>3000m requires derating
PCS cooling method	Temperature controlled forced air cooling standard:
Communication protocol	Modbus/104/MQTT
Communication interface	RS485, RJ45,4G

High-Voltage Battery

iRack-SERIES

204.8V-768V

25.6KWH/100AH

40.96KWH/100AH

61.4KWH/100AH

100.35KWH/280AH

215.04KWH/280AH



Product Feature >>>



High Quality Battery Cell

Long cycle life: More than 6000 cycles
@ 80% DOD:
Passed International Certifications:
IEC 62619,UL 1973,UL 9540A,UN 38.3,GB/T 36276.
Meet the most stringent cell intrinsic safety requirements.



Integrated production

More than 20 complete control processes
More than 100 MES data points
More than 500 quality control points
All data upload to the cloud for long-term traceability.



High Quality Battery Cell

Avoid short circuit, flexible buffering between cells, overall elastic restraint to reduce the influence of cell expansion;
Air duct between cells effectively control heat accumulation & avoid thermal runaway.



Rigorous Tests

Passed 28 safety & reliability tests, 500 performance testing



Thermal Management System

Perfect thermal management technology through simulation and actual testing, to control the temperature rise in the battery system to <math>< 5^{\circ}\text{C}</math>



Operation Guarantee

Two-stage battery safety management system
Full coverage of key sampling points to build a complete IoT
Real-time monitoring feedback, fault diagnosis and warnings
Triple protection, blocking risk spread

256V-614.4V

25.6KWH 40.96KWH 61.44KWH



Product Data Sheet >>>

Models	iRack-HVS 25	iRack-HVS 40	iRack-HVS 60
Models	iRack-HVS 25	iRack-HVS 40	iRack-HVS 60
Cell Type	LFP	LFP	LFP
Total Energy	25.6kWh	40.96kWh	61.44kWh
Number of Modules	5	8	12
Configuration	1P80S	1P128S	1P192S
Nominal Capacity	100Ah	100Ah	100Ah
Nominal Voltage	256V	409.6V	614.4V
Operating Voltage Range	224Vdc-288Vdc	358.4Vdc-460.8Vdc	537.6Vdc-691.2Vdc
Battery Max Continuous Charge/Discharge Power	12.8kW	20.48KW	30.72kW
Dimension [W x D x H]	550*650*1100mm	580*650*1590mm	580*650*2155mm
Net Weight	277kg	392kg	564kg
Max. Charge Current	50A		
Max. Discharge Current	50A		
Communication	CAN,RS485,LAN		
Enclosure Protection Rating	Ip20		
Altitude	<math>< 2000\text{m}</math>		
Installation	Indoor		
Charging Temp Range	0 $^{\circ}\text{C}$ -55 $^{\circ}\text{C}$		
Discharging Temp Range	-10 $^{\circ}\text{C}$ -55 $^{\circ}\text{C}$		
Working Humidity	5%-95%		
Cycle Life	>6.000 Cycle@ 80% DOD/25 $^{\circ}\text{C}$ /0.5C,60%EOL		
Communicated Inverter	GOODWE/ Deye/MEGAREVO /SOFAR		
Certification	IEC62619,UL1973 ,UN38.3,CE		

Product Feature >>>



High Quality Battery Cell

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@ 80% DOD:
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Full coverage of key sampling points to build a complete IoT
Real-time monitoring feedback, fault diagnosis and warnings
Triple protection, blocking risk spread

358.4V-768V

100.35KWH 215.04KWH



Product Data Sheet >>>

Models	iRack-HVM 100	iRack-HVM 215
		
Models	iRack-HVM 100	iRack-HVM 215
Cell Type	LFP	LFP
Total Energy	100.35kWh	215.04kWh
Number of Modules	7	15
Configuration	1P112S	1P240S
Nominal Capacity	280Ah	280Ah
Nominal Voltage	358.4V	768V
Operating Voltage Range	313.6Vdc~403.2Vdc	672Vdc-864Vdc
Battery Max Continuous Charge/Discharge Power	50.18kW	107.52kW
Dimension [W x D x H]	680*750*2260mm	1200*750*2260mm
Net Weight	955kg	1650kg
Max. Charge Current	140A	
Max. Discharge Current	140A	
Communication	CAN.RS485.LAN	
Enclosure Protection Rating	Ip20	
Altitude	≤2000m	
Installation	Indoor	
Charging Temp Range	0℃-55℃	
Discharging Temp Range	-10℃-55℃	
Working Humidity	5%-95%	
Cycle Life	>6.000 Cycle@ 80% DOD/25℃/0.5C,60%EOL	
Communicated Inverter	GOODWE/ Deye/MEGAREVO /SOFAR	
Certification	IEC62619,UL1973 ,UN38.3,CE	

HOME ENERGY STORAGE SYSTEM SOLUTION



Lithium Battery EV-SERIES

25.6V/51.2V

5.12KWH/200AH 5.12KWH/100AH

10.24KWH/200AH 15.36KWH/300AH



Product Feature >>>



Safety & Security

Safe LiFePO4 Battery, BMS protections



Intelligent Monitor

LCD and LED Displays
APP/Bluetooth Monitor



Longer Lifespan

Over 8000 times life cycle & 10 years technical support



More Usable Capacity

95%DOD, support 16 pcs in parallel



Space Saver

Compact size and light weight

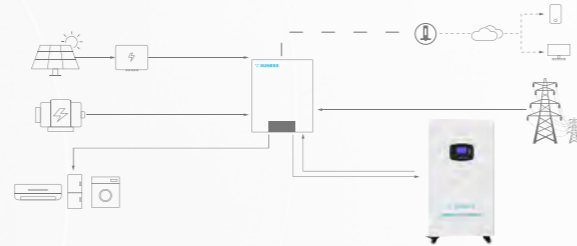


Wide Range of Applications

Solar power system, wind power system, electric vehicle charging, household, office electricity, industrial production

51.2V/300AH

5.12KWH 10.24KWH 15.36KWH

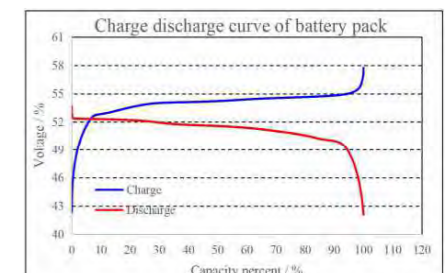
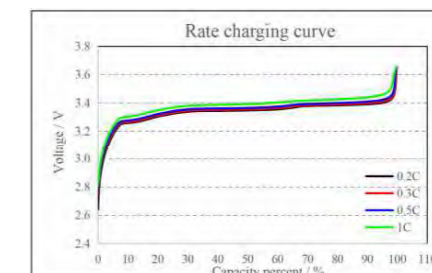
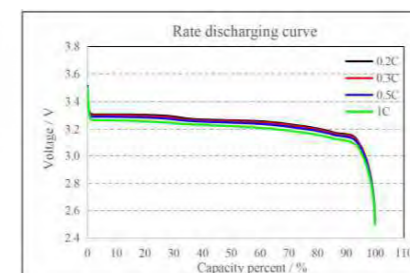


Product Data Sheet >>>

MODEL	EV-15.36N
Total Energy [kWh]	15.36
Capacity [Ah]	300
Nominal Voltage [V]	51.2
Voltage Range [V]	48-57.6
MAX. Charge & Discharge Current [A]	150
Peak Charge & Discharge Current [A] (for 10 sec.)	200
Product Size [W x D x H. mm]	470*250*905MM
Product Weight [Kg]	120KG
Scalable	1~16 in parallel
Communication	CAN,RS485
Communicated Inverter	GOODWE / Victron / SOFAR / Deye / Growatt / Solis / SMA / SRNE
Enclosure Protection Rating	IP21
Charging Temp Range [°C]	0 ~ 55
Working Temperature Range [°C]	-10 ~ 55
Cycle Life	≥8,000 Cycle@ 80% DOD / 25°C / 0.5C, 60%EOL
Warranty	10 years
Certification	IEC62619,UN38.3,CE

LiFePO4 Features >>>

Lithium iron phosphate batteries have high energy density, low cost, and long discharge time. Wall-mounted energy storage batteries are convenient for customers to install and place, reducing space occupancy. EV series can connect up to 16 units in parallel.



Product Feature >>>



Safety & Security

Safe LiFePO4 Battery, BMS protections



Intelligent Monitor

LCD and LED Displays
APP/Bluetooth Monitor



Longer Lifespan

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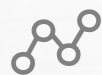
More Usable Capacity

95%DOD, support 16 pcs in parallel



Space Saver

Compact size and light weight

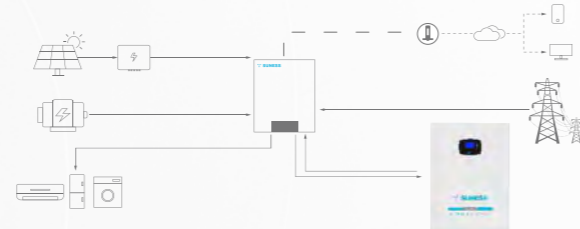


Wide Range of Applications

Solar power system, wind power system, electric vehicle charging, household, office electricity, industrial production

51.2V/200AH

5.12KWH 10.24KWH 15.36KWH

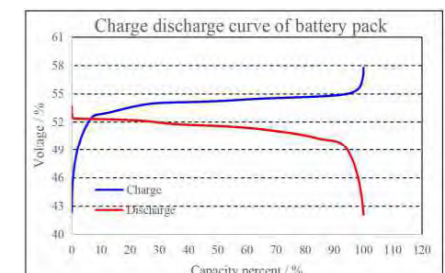
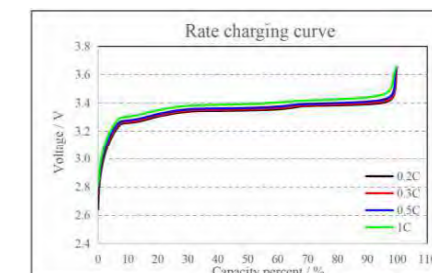
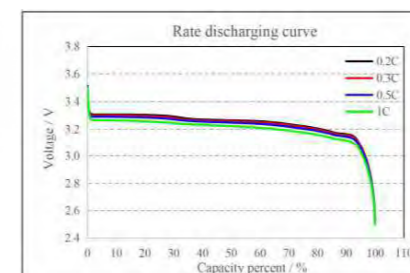


Product Data Sheet >>>

MODEL	EV-10.24N
Total Energy [kWh]	10.24
Capacity [Ah]	200
Nominal Voltage [V]	51.2
Voltage Range [V]	48-57.6
MAX. Charge & Discharge Current [A]	100
Peak Charge & Discharge Current [A] (for 10 sec.)	120
Product Size [W x D x H. mm]	610*185*830MM
Product Weight [Kg]	86KG
Scalable	1~16 in parallel
Communication	CAN,RS485
Communicated Inverter	GOODWE / Victron / SOFAR / Deye / Growatt / Solis / SMA / SRNE
Enclosure Protection Rating	IP21
Charging Temp Range [°C]	0 ~ 55
Working Temperature Range [°C]	-10 ~ 55
Cycle Life	≥8,000 Cycle@ 80% DOD / 25°C / 0.5C, 60%EOL
Warranty	10 years
Certification	IEC62619,UN38.3,CE

LiFePO4 Features >>>

Lithium iron phosphate batteries have high energy density, low cost, and long discharge time. Wall-mounted energy storage batteries are convenient for customers to install and place, reducing space occupancy. EV series can connect up to 16 units in parallel.



Product Feature >>>



Safety & Security

Safe LiFePO4 Battery, BMS protections



Intelligent Monitor

LCD and LED Displays
APP/Bluetooth Monitor



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Compact size and light weight

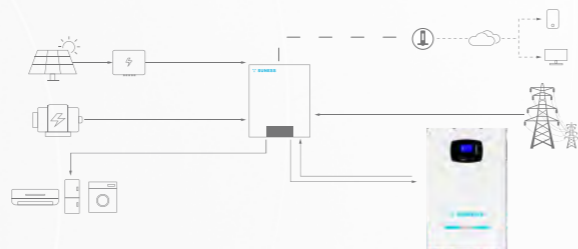


Wide Range of Applications

Solar power system, wind power system, electric vehicle charging, household, office electricity, industrial production

51.2V/100AH

5.12KWH 10.24KWH 15.36KWH

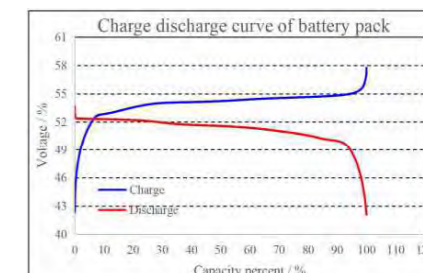
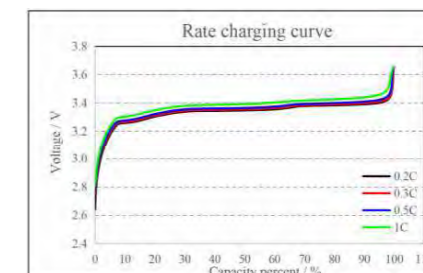
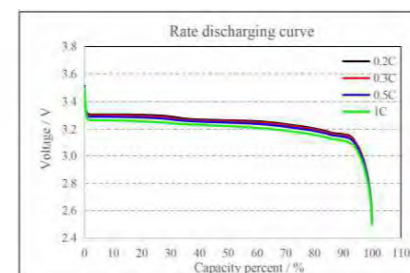


Product Data Sheet >>>

MODEL	EV-5.12N
Total Energy [kWh]	5.12
Capacity [Ah]	100
Nominal Voltage [V]	51.2
Voltage Range [V]	48-57.6
MAX. Charge & Discharge Current [A]	60
Peak Charge & Discharge Current [A] (for 10 sec.)	100
Product Size [W x D x H. mm]	430*185*660MM
Product Weight [Kg]	44KG
Scalable	1~16 in parallel
Communication	CAN,RS485
Communicated Inverter	GOODWE / Victron / Deye / Growatt / SMA / SRNE
Enclosure Protection Rating	IP21
Charging Temp Range [°C]	0 ~ 55
Working Temperature Range [°C]	-10 ~ 55
Cycle Life	≥8,000 Cycle@ 80% DOD / 25°C / 0.5C, 60%EOL
Warranty	10 years
Certification	IEC62619,UN38.3,CE

LiFePO4 Features >>>

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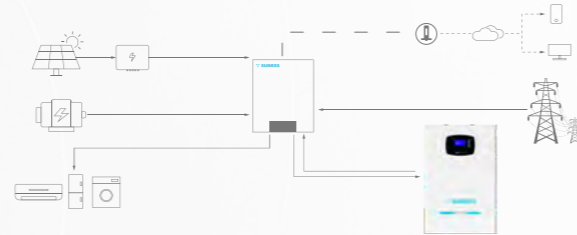


Wide Range of Applications

Solar power system, wind power system, electric vehicle charging, household, office electricity, industrial production

25.6V/200AH

5.12KWH 10.24KWH 15.36KWH

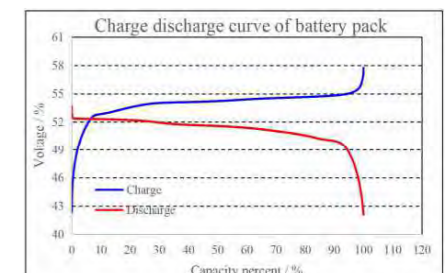
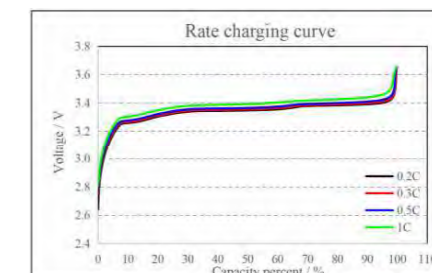
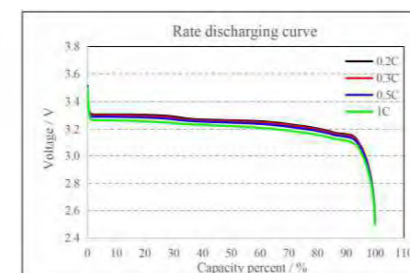


Product Data Sheet >>>

MODEL	EV-5.12M
Total Energy [kWh]	5.12
Capacity [Ah]	200
Nominal Voltage [V]	25.6
Voltage Range [V]	24-28.8
MAX. Charge & Discharge Current [A]	80
Peak Charge & Discharge Current [A] (for 10 sec.)	150
Product Size [W x D x H. mm]	660*430*185MM
Product Weight [Kg]	45KG
Scalable	1~16 in parallel
Communication	CAN,RS485
Communicated Inverter	GOODWE / Victron / Deye / Growatt / SMA / SRNE
Enclosure Protection Rating	IP21
Charging Temp Range [°C]	0 ~ 55
Working Temperature Range [°C]	-10 ~ 55
Cycle Life	≥8,000 Cycle@ 80% DOD / 25°C / 0.5C, 60%EOL
Warranty	10 years
Certification	IEC62619,UN38.3,CE

LiFePO4 Features >>>

Lithium iron phosphate batteries have high energy density, low cost, and long discharge time. Wall-mounted energy storage batteries are convenient for customers to install and place, reducing space occupancy. EV series can connect up to 16 units in parallel.



Lithium Battery EV-SERIES

12.8V

1.28KWH/100AH 2.56KWH/200AH

3.84KWH/300AH



Product Feature >>>



HIGH TEMPERATURE RESISTANCE

The peak value of lithium iron phosphate electric heating can reach 350°C-500°C, while lithium manganate and cobalt acid Lithium is only around 200°C, with a wide operating temperature range (-10C--55C)



BMS CONTROL

The battery management system monitors and adapts to battery conditions to maximize performance and safety



HIGH SECURITY

The P-O bond in the lithium iron phosphate crystal is stable and difficult to decompose. Even at high temperature or overcharge, it will not collapse and generate heat like lithium cobalt oxide or form strong oxidizing substances, so it has good safety.



ENVIRONMENTAL PROTECTION

Lithium iron phosphate batteries are generally considered to be free of any heavy metals and rare metals (the nickel-hydrogen battery requires rare metals), non-toxic (SGS certification), pollution-free and meets European RoHS regulations, and is an absolute green battery.



LONG CYCLE LIFE

At 80% depth of discharge, the number of cycles exceeds 6,000, and a 5-year warranty is provided.

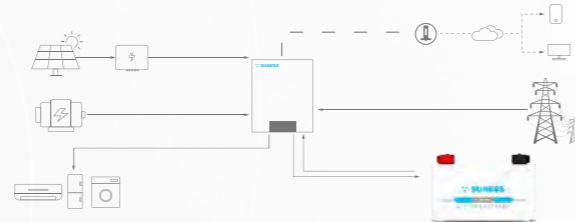


LIGHT WEIGHT

The volume of a LiFePO4 battery with the same specification and capacity is the volume of a lead-acid battery, the weight is 1/3 of the lead-acid battery. Allowing for simple installation and transportation.

12.8V/100AH

1.28KWH 2.56KWH 3.84KWH

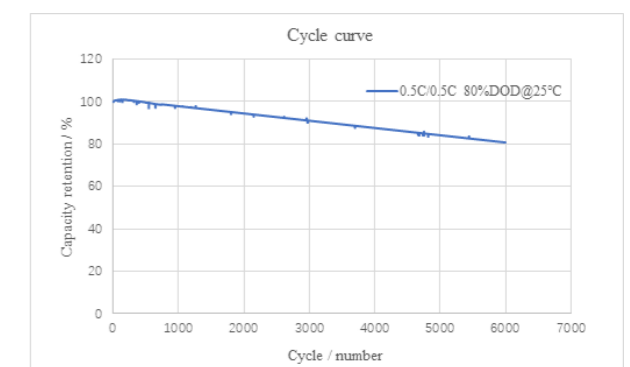
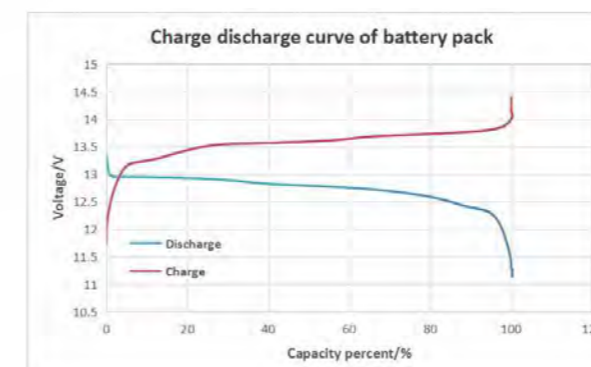


Product Data Sheet >>>

MODEL	EV-1.28N
Total Energy [kWh]	1.28
Capacity [Ah]	100
Nominal Voltage [V]	12.8
Voltage Range [V]	12-14.4
MAX. Charge & Discharge Current [A]	50
Peak Charge & Discharge Current [A] (for 10 sec.)	100
Scalable	up to 4 in series and up to 6 in parallel
Enclosure Protection Rating	Ip21
Charging Temp Range [°C]	0 ~ 55
Discharging Temp Range [°C]	-10 ~ 55
Cycle Life	≥6,000 Cycle@ 80% DOD / 25°C / 0.5C, 60%EOL
Warranty	5 years
Certification	IEC62619,UN38.3,CE
Net Weight(KG)	12KG
Product Dimension(MM)	285X180X215MM

LiFePO4 Features >>>

Lithium iron phosphate batteries have high energy density, low cost and long discharge time. The 12V energy storage battery is convenient for customers to install and place, reducing space occupation. The EV series can connect up to 4 units in series and 6 units in parallel.



Product Feature >>>



HIGH TEMPERATURE RESISTANCE

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HIGH SECURITY

The P-O bond in the lithium iron phosphate crystal is stable and difficult to decompose. Even at high temperature or overcharge, it will not collapse and generate heat like lithium cobalt oxide or form strong oxidizing substances, so it has good safety.



ENVIRONMENTAL PROTECTION

Lithium iron phosphate batteries are generally considered to be free of any heavy metals and rare metals (the nickel-hydrogen battery requires rare metals), non-toxic (SGS certification), pollution-free and meets European RoHS regulations, and is an absolute green battery.



LONG CYCLE LIFE

At 80% depth of discharge, the number of cycles exceeds 6,000, and a 5-year warranty is provided.

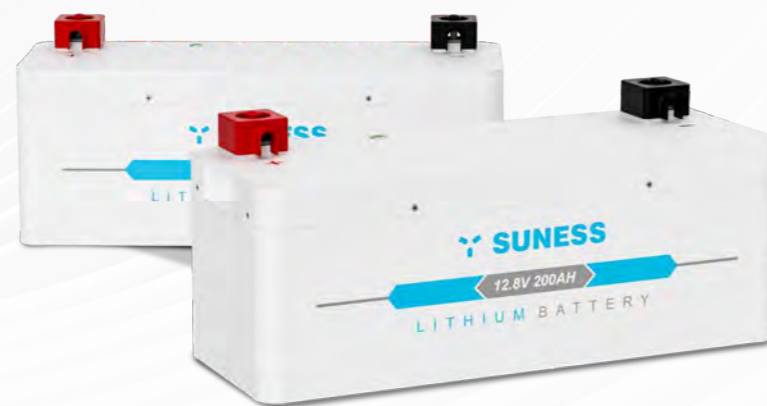
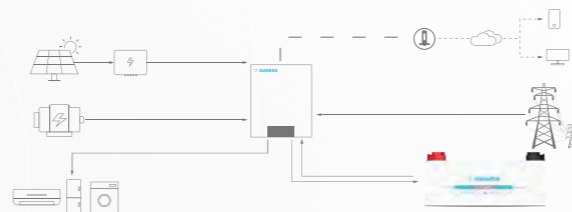


LIGHT WEIGHT

The volume of a LiFePO4 battery with the same specification and capacity is the volume of a lead-acid battery, the weight is 1/3 of the lead-acid battery. Allowing for simple installation and transportation.

12.8V/200AH

1.28KWH 2.56KWH 3.84KWH

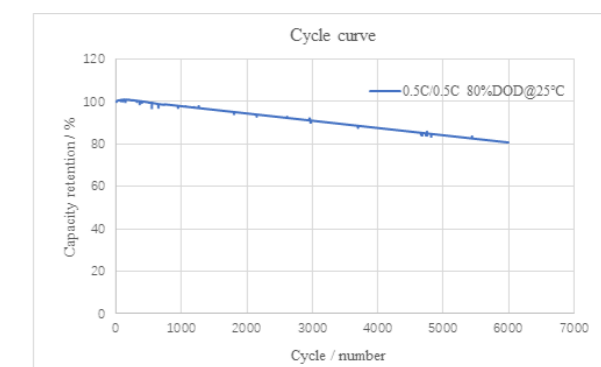
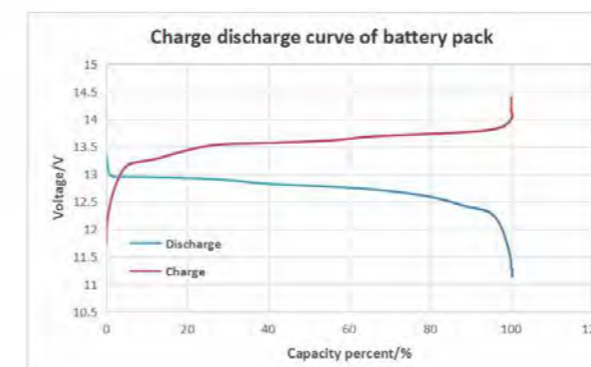


Product Data Sheet >>>

MODEL	EV-2.56N
Total Energy [kWh]	2.56
Capacity [Ah]	200
Nominal Voltage [V]	12.8
Voltage Range [V]	12-14.4
MAX. Charge & Discharge Current [A]	100
Peak Charge & Discharge Current [A] (for 10 sec.)	150
Scalable	up to 4 in series and up to 6 in parallel
Enclosure Protection Rating	Ip21
Charging Temp Range [°C]	0 ~ 55
Discharging Temp Range [°C]	-10 ~ 55
Cycle Life	≥6,000 Cycle@ 80% DOD / 25°C / 0.5C, 60%EOL
Warranty	5 years
Certification	IEC62619,UN38.3,CE
Net Weight(KG)	22KG
Product Dimension(MM)	490X180X215MM

LiFePO4 Features >>>

Lithium iron phosphate batteries have high energy density, low cost and long discharge time. The 12V energy storage battery is convenient for customers to install and place, reducing space occupation. The EV series can connect up to 4 units in series and 6 units in parallel.



Product Feature >>>



HIGH TEMPERATURE RESISTANCE

The peak value of lithium iron phosphate electric heating can reach 350°C-500°C, while lithium manganate and cobalt acid Lithium is only around 200°C, with a wide operating temperature range (-10C--55C)



BMS CONTROL

The battery management system monitors and adapts to battery conditions to maximize performance and safety



HIGH SECURITY

The P-O bond in the lithium iron phosphate crystal is stable and difficult to decompose. Even at high temperature or overcharge, it will not collapse and generate heat like lithium cobalt oxide or form strong oxidizing substances, so it has good safety.



ENVIRONMENTAL PROTECTION

Lithium iron phosphate batteries are generally considered to be free of any heavy metals and rare metals (the nickel-hydrogen battery requires rare metals), non-toxic (SGS certification), pollution-free and meets European RoHS regulations, and is an absolute green battery.



LONG CYCLE LIFE

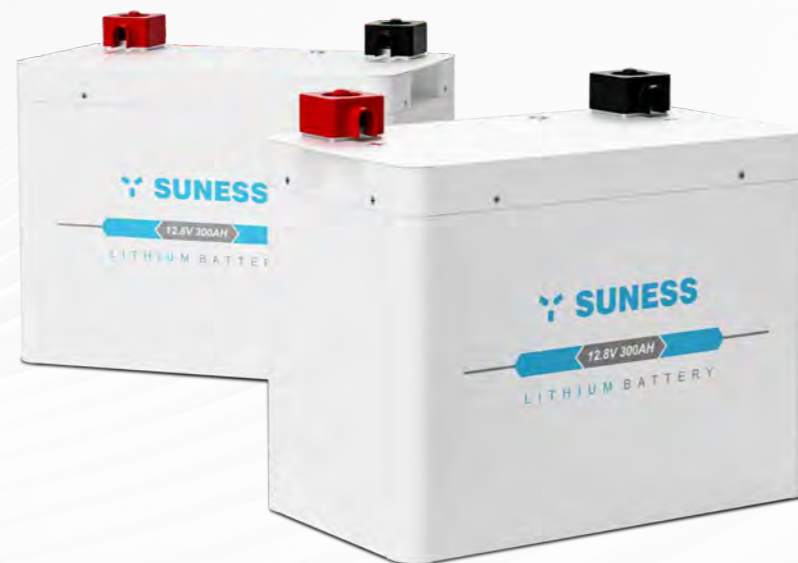
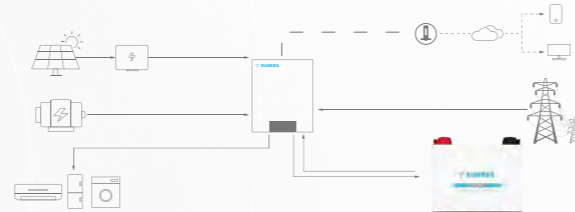
At 80% depth of discharge, the number of cycles exceeds 6,000, and a 5-year warranty is provided.



LIGHT WEIGHT

The volume of a LiFePO4 battery with the same specification and capacity is the volume of a lead-acid battery, the weight is 1/3 of the lead-acid battery. Allowing for simple installation and transportation.

12.8V/300AH
1.28KWH 2.56KWH 3.84KWH

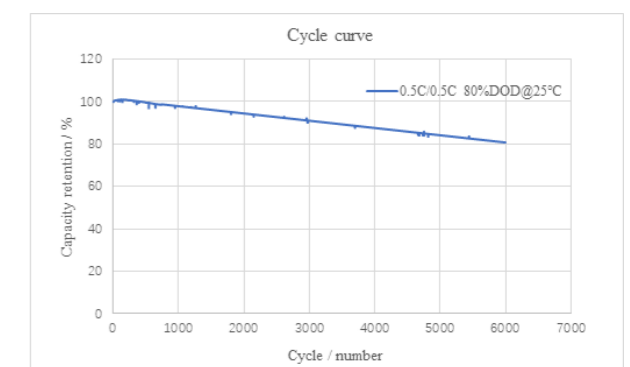
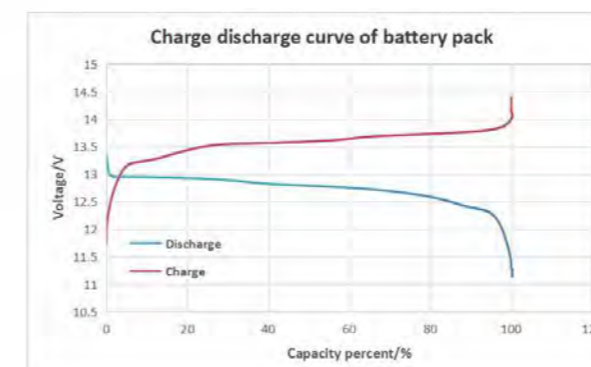


Product Data Sheet >>>

MODEL	EV-3.84N
Total Energy [kWh]	3.84
Capacity [Ah]	300
Nominal Voltage [V]	12.8
Voltage Range [V]	12-14.4
MAX. Charge & Discharge Current [A]	150
Peak Charge & Discharge Current [A] (for 10 sec.)	200
Scalable	up to 4 in series and up to 6 in parallel
Enclosure Protection Rating	Ip21
Charging Temp Range [°C]	0 ~ 55
Discharging Temp Range [°C]	-10 ~ 55
Cycle Life	≥6,000 Cycle@ 80% DOD / 25°C / 0.5C, 60%EOL
Warranty	5 years
Certification	IEC62619,UN38.3,CE
Net Weight(KG)	28KG
Product Dimension(MM)	370X205X315MM

LiFePO4 Features >>>

Lithium iron phosphate batteries have high energy density, low cost and long discharge time. The 12V energy storage battery is convenient for customers to install and place, reducing space occupation. The EV series can connect up to 4 units in series and 6 units in parallel.



All in One Solar Energy System

5000W

230V-5.12KWH

230V-10.24KWH

230V-15.36KWH



Product Feature >>>



BMS/MPPT

Built-in BMS and MPPT solar charge controller



More Usable Capacity

Up to 3 batteries in parallel expand to 15.36kWh



Intelligent Monitor

LCD screen with real-time data



Smart charging

Multiple charge and discharge modes available



Longer Lifespan

High quality lithium iron phosphate cells



Convenient

No matching and commissioning required, ready to install

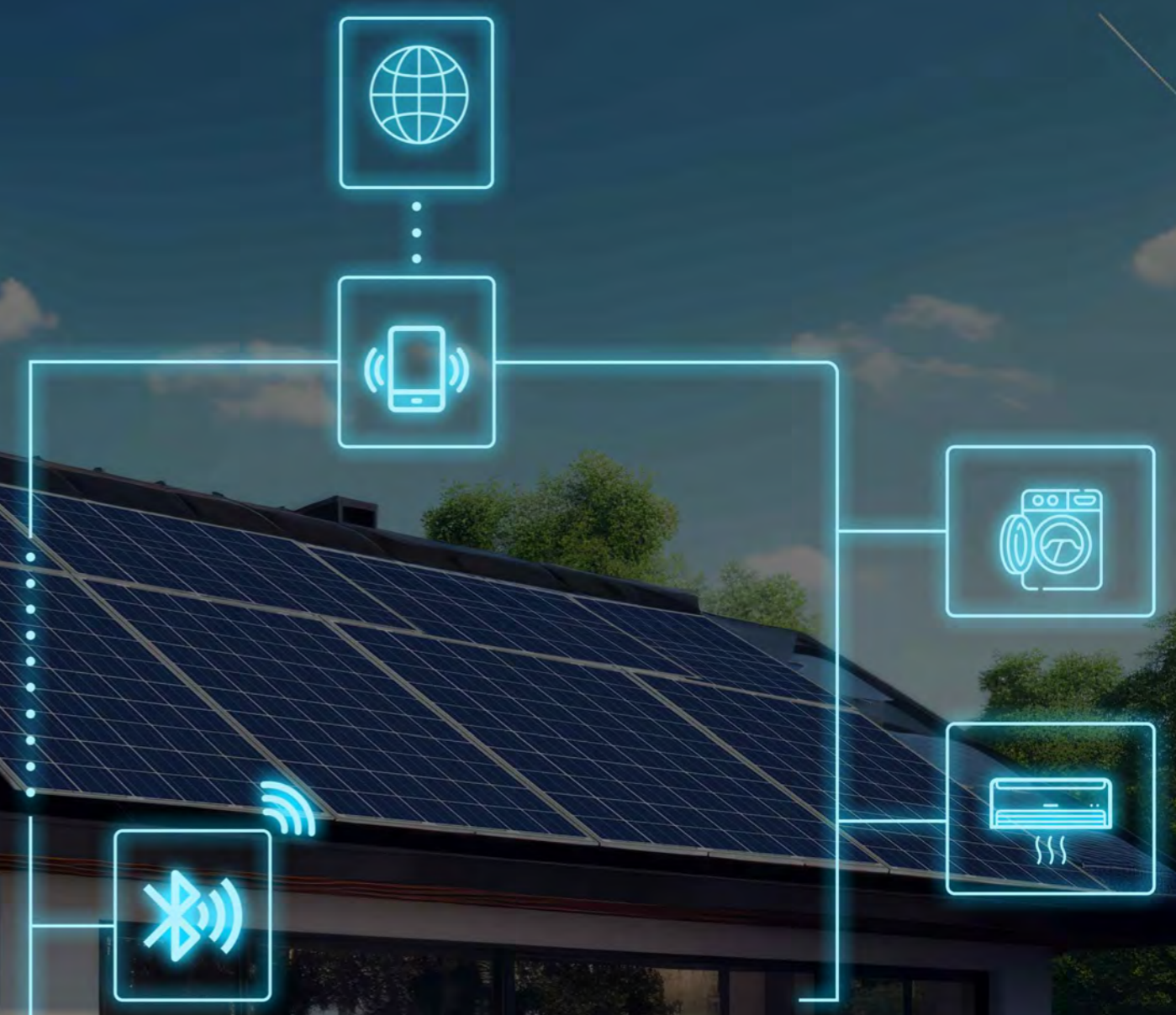
5000W

230V-5.12KWH | 230V-10.24KWH | 230V-15.36KWH



Product Data Sheet >>>

INVERTER MODULE	SUN 5000		
Output			
Nominal Output Power [W]	5000		
Max. Peak Power [VA]	10000		
Load Capacity of Motor [HP]	4		
Wave Form	Pure Sine Wave		
Rated Output Voltage [Vac]	230 (single-phase)		
Output Mode	Off-grid/Hybrid		
PV Input			
Solar Charge Type	MPPT		
Num.of MPPT Trackers	1		
Max.PV Array Power [W]	5500		
Max. PV Open Circuit Voltage[Vac]	500		
Grid / Generator Input			
Input Voltage Range(Vac)	90~280		
Bypass Overload Current [A]	40		
Battery Charging			
Max. Solar Charging Current [A]	0~80		
Max. Grid/Generator Charging Current [A]	0~60		
General			
Dimension [Wx D x H,mm]	640*170*420		
Net Weight [Kg]	16kg		
BATTERY MODULE	SUN 5000-5.12L	SUN 5000-10.24L	SUN 5000-15.24L
Total Energy [kWh]	5.12	10.24	15.36
Voltage Range [V]	48-57.6	48-57.6	48-57.6
Capacity [Ah]	100	200	300
Battery Type	LiFePO4		
Max. Parallel Capacity	3units (up to 15.36kwh)		
Cycle Life	>6,000 Cycle@ 80% DOD / 25°C/0.5C,60%EOL		
REGULAR DATA			
Communication with BMS	Rs485		
Charging Temp Range[°C]	0-55		
Working Temperature Range[°C]	-10-55		
Enclosure Protection Rating	Ip21		
System Certification	IEC622619,UN38.3,CE		
Warranty	Inverter(3 years), Battery(5 years)		
Dimension(Wx D x H, mm)	640*170*905	640*170*1335	640*170*1765
Net Weight [Kg]	68kg	116kg	174kg



Wireless Bluetooth Device
Lithium battery pack

APP Download



Browser Scan(Android)

App store search (sunes)

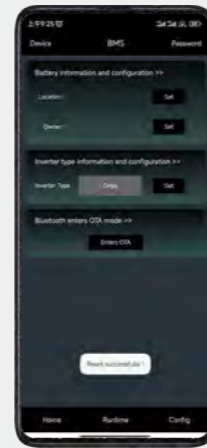
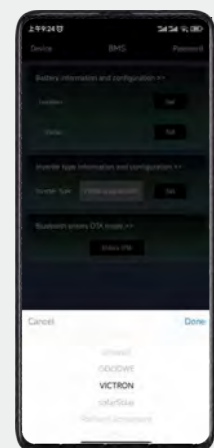
Browser Scan (IOS)



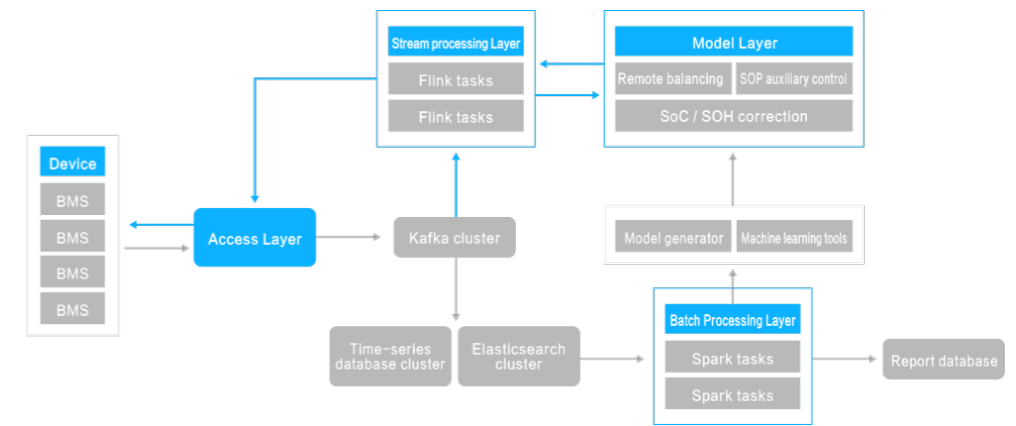
Successful Connection successful



Status Display

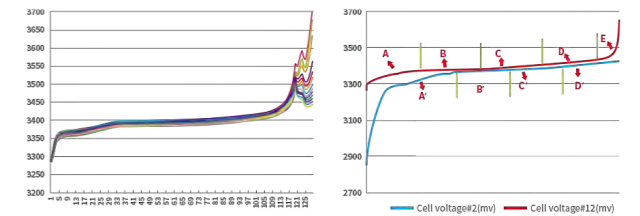


Cloud and BMS Collaborative Control



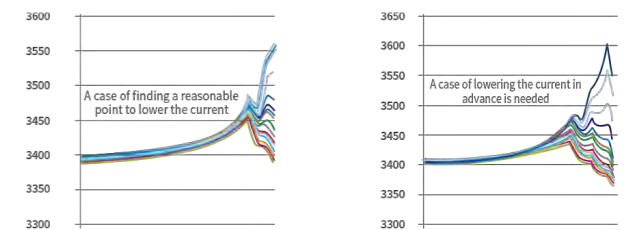
Cloud Full-time Balancing

Cellimbalance life cycle < 20mV@SOC Interval 20%-80% algorithm is particularly effective for LFP battery, increasing single range by 10%



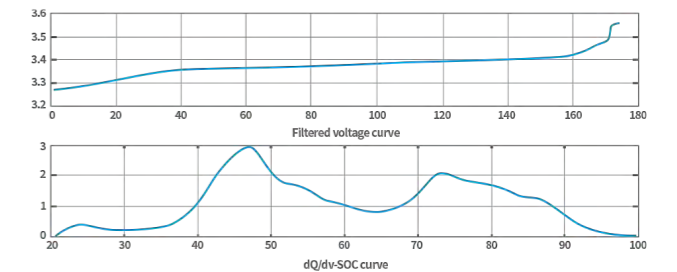
Cloud SOP Auxiliary Power Control

Utilizing individual/common data, Cloud-based charging/discharging collaborative managements as well as cell power control technology extend the service life of lithium-ion battery by 15%



Cloud sOc/soH Correction

Multi-timescale based dQ/dv differential curve feature extraction technique and cumulative capacity difference cloud correction technique, The SOC/SOH error is less than 3%



PRODUCT CASE

Quality service , selected products



100KWH  Household energy storage

Beirut, Lebanon, Home energy storage



50KWH  Household energy storage

Cape Town, South Africa, Home energy storage



559.11KWH  C&I Energy Storage System

Bangkok, Thailand, C&I Energy Storage System



25.6KWH  C&I Energy Storage System

Manila, Philippines, C&I Energy Storage System



46KWH
Beirut, Lebanon



46KWH
Yangon, Myanmar



53KWH
Türkiye, Ankara



46KWH
Belgium, Brussels

EXHIBITION



PRODUCT CERTIFICATION



UL



ISO



CE



MSDS



UN38.3



IEC

TECHNOLOGY EXCHANGE



Communication

Communication brand >>> **16+**





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