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Scan to learn more about Enershare



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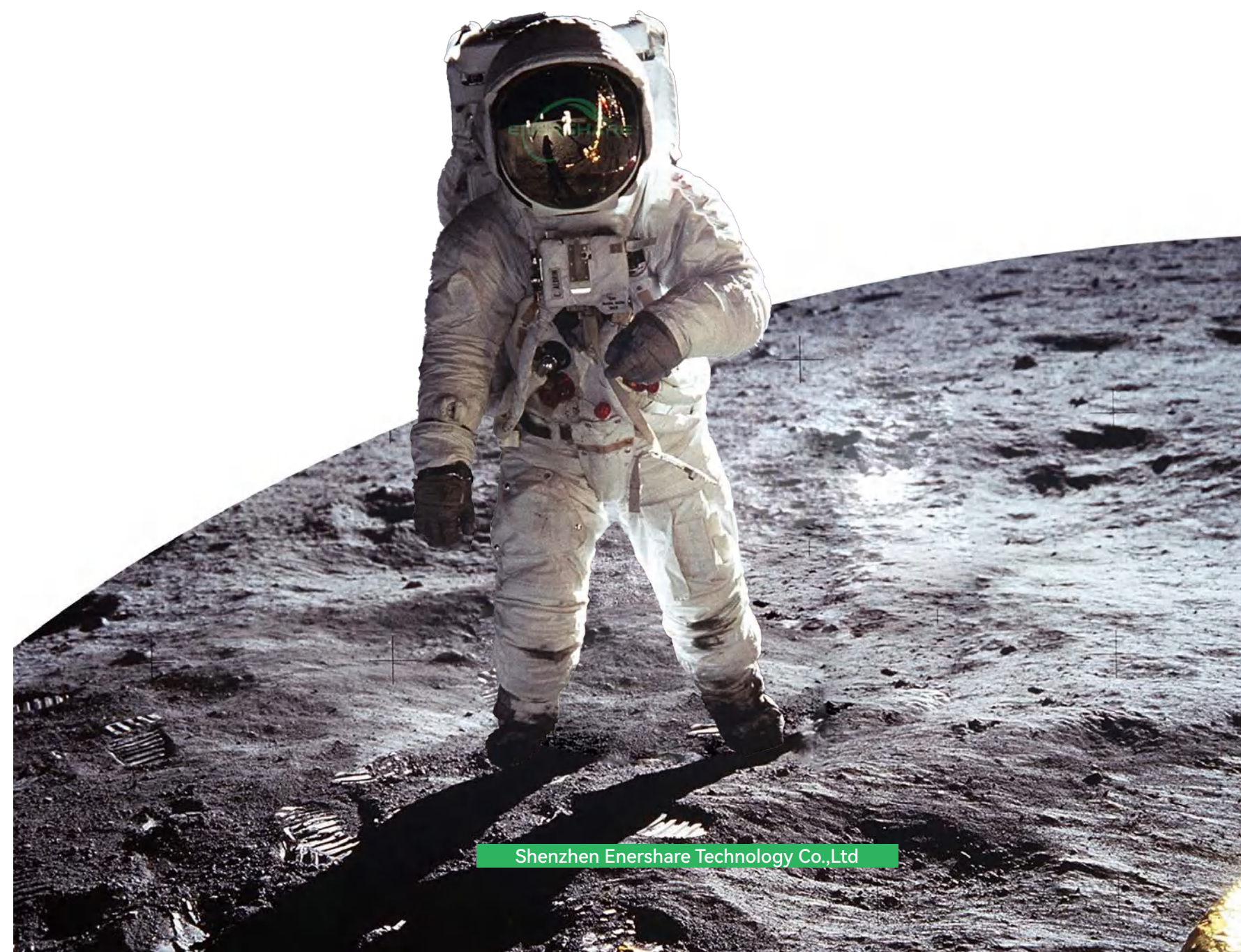


 youtube

Explore Coming With
Sustainable

Future Energy

探索可持续发展 未来能源



Shenzhen Enershare Technology Co.,Ltd



Making Batteries “Affordable for All”



Adam Hancock

Director UK & Europe, Enershare Technology

About Enershare

Shenzhen Enershare Technology Company Limited is dedicated in reliable and customized lithium battery modules and integrated energy storage systems integration and distribution, who is headquartered in Shenzhen.

We're the energy storage industry's partner-of-choice for flexible, robust, reliable, and innovative solutions guaranteed to deliver the lowest cost of ownership. Through a continuous focus of engineered simplicity, Enershare's battery modules and storage solutions optimize for efficient installation, compatibility and high reliability.

Enershare has been focusing on renewable energy sector for years, with a track record of 500MWh in last three years.The ESS engineers has average experience of over 1GWH system installed. Mainly in USA and Europe.



15 years

Of energy experience



2GWh

It provides 2GWh of energy to global users



20080m²

Production base



OEM/ODM

Providing OEM/ODM services



200MWh

Processing capacity per month

Enershare R&D team



Product Director

Involvement in the integrated design of PV energy storage and battery systems, Once Took charge of BYD E6 electric vehicle technical services. Responsible for the R&D of ESS, lithium battery application, photovoltaic systems, electrical products, etc. while worked in BYD EPRI.



Electrical Engineer

Once Take part in Led and completed many BYD projects. Responsible for energy storage product R&D, electrical design of indoor high-voltage vacuum circuit breakers, household energy storage cabinets, and energy storage container system development.



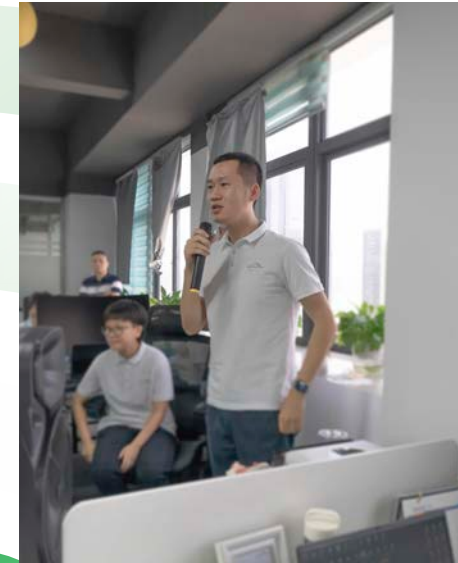
Software Engineer

Once Participated in the R&D of BYD container system and took charge of the development of BMS and EMS software, ect. Participated in the commissioning of many ESS projects in South Africa. Responsible for the transformation of production line automation



Structural Engineer

Responsible for the structural design and installation layout of energy storage products, such as energy container, household energy storage product, professional on the internal circuit layout and pipeline routing of energy storage products.



Enershare Strategy- FF Strategy



Residential Storage



Product	Parameter
Rack-mount5150/51100/51200	51.2V, 50/100/200Ah
Wall-mount5150/51100/51200	51.2V, 50/100/200Ah
All-in-one System HyPro1	5KW/10KWh
All-in-one System	3.5-12KW/5-30KWh
Off-grid All-in-one system ECO SERIES	2KW/5KWh, 1KW-2.5KWh
Portable Generator	2KW/2KWh
Portable Generator	Vehicle version (coming soon)
UPS	In development



12.8V 25.6V Lead-acid Replacement

Product	Parameter
Standard Version	12.8V / 25.6V, 100/200Ah
SlimLine	12.8v, 115Ah
1.5-2C High C-rate version	12.8 / 25.6V, 30Ah-60A
Bluetooth version	12.8V / 25.6V, 100/200Ah
EnerShare APP version	12.8V / 25.6V, 100/200Ah
Low-temp heater version	12.8V / 25.6V, 100/200Ah
RS485 Com version	25.6V, 100/200Ah
Metal Case version	12.8V 600Ah, 25.6V 300Ah
Either series or parallel connection	



Container BESS

Product	Parameter
Battery Energy Storage Container	600KW-2MWh
New Battery Energy Storage Container	600KW-2MWh
Battery CKD solution	300KW-2MWh
New battery CKD solution	300KW-2MWh
Marine BESS	



HV Cabinet



Product	Parameter
Indoor HV cabinet	80/100/120KWh
Outdoor HV cabinet	51.2KWh
Outdoor Battery Energy System	60KW/168KWh

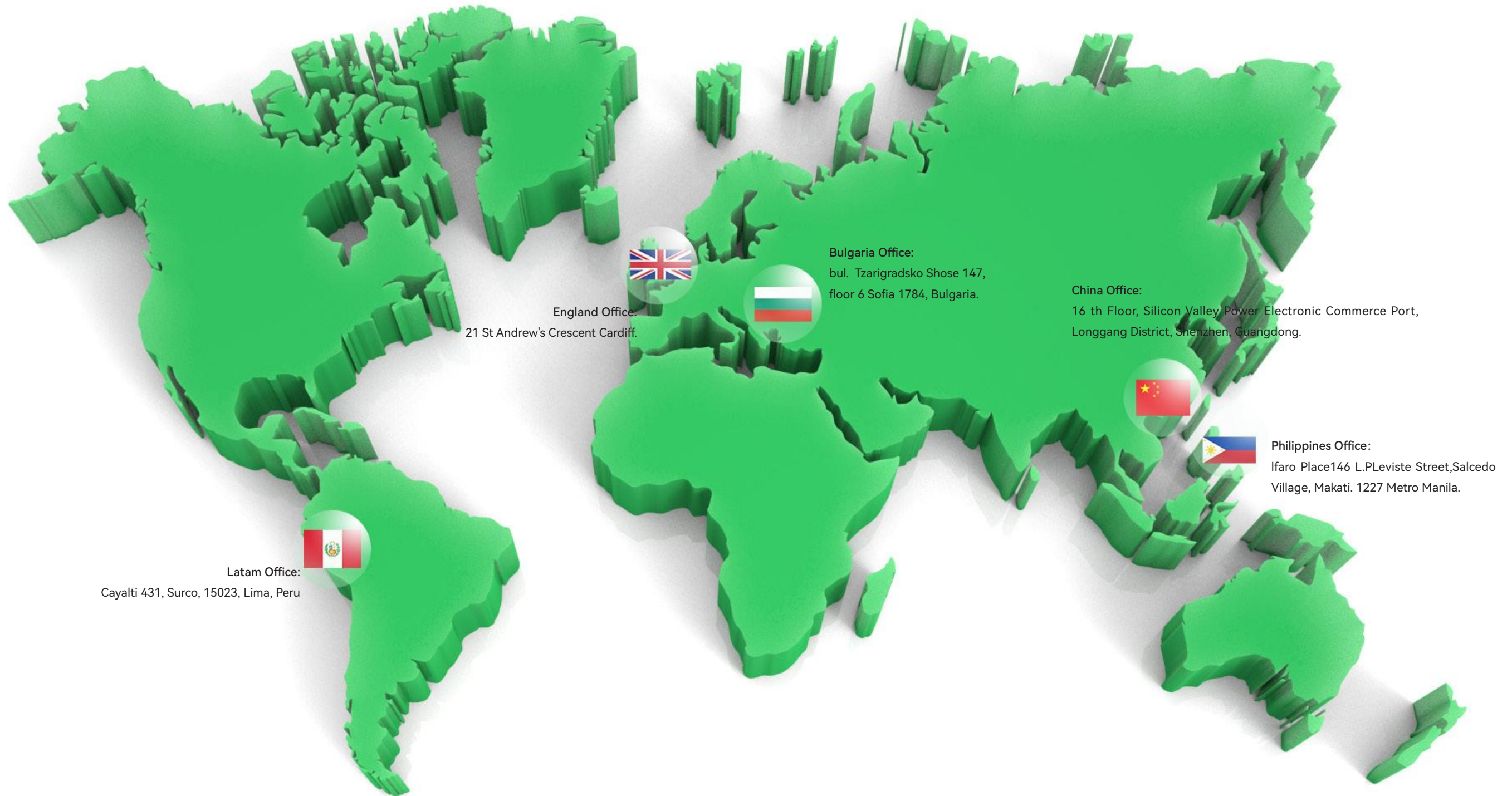


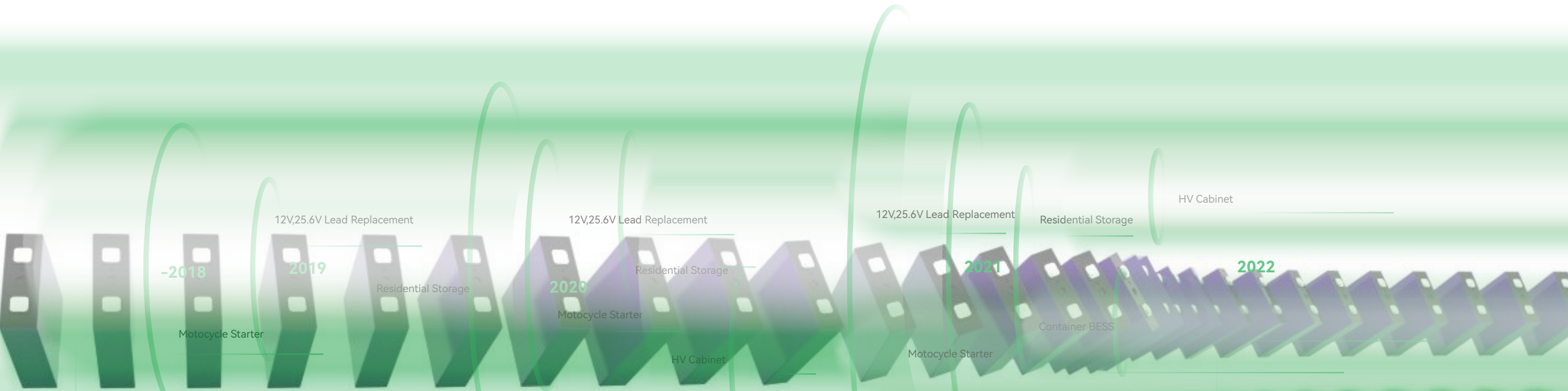
Motocycle Starter



Product	Parameter
Built-in BMS with terminals at same side version	3/6/7/9/12Ah
None BMS with terminals at same side	3/6/7/9/12Ah
Built-in BMS with terminals at different sides version	3/6/7/9/12Ah
None BMS with terminals at different sides version	3/6/7/9/12Ah

you can contact Enershare in the following ways
welcome to Enershare company for investigation.





2018

- The first 12.8 V and 25.6 V Residential application



2019

- The first 51.2V100Ah Products Energy storage system application
- Home storage all-in-one system project research and development



2020

- The first Plug and play All-in-one system Go public
- The first High voltage cabinet project



2021

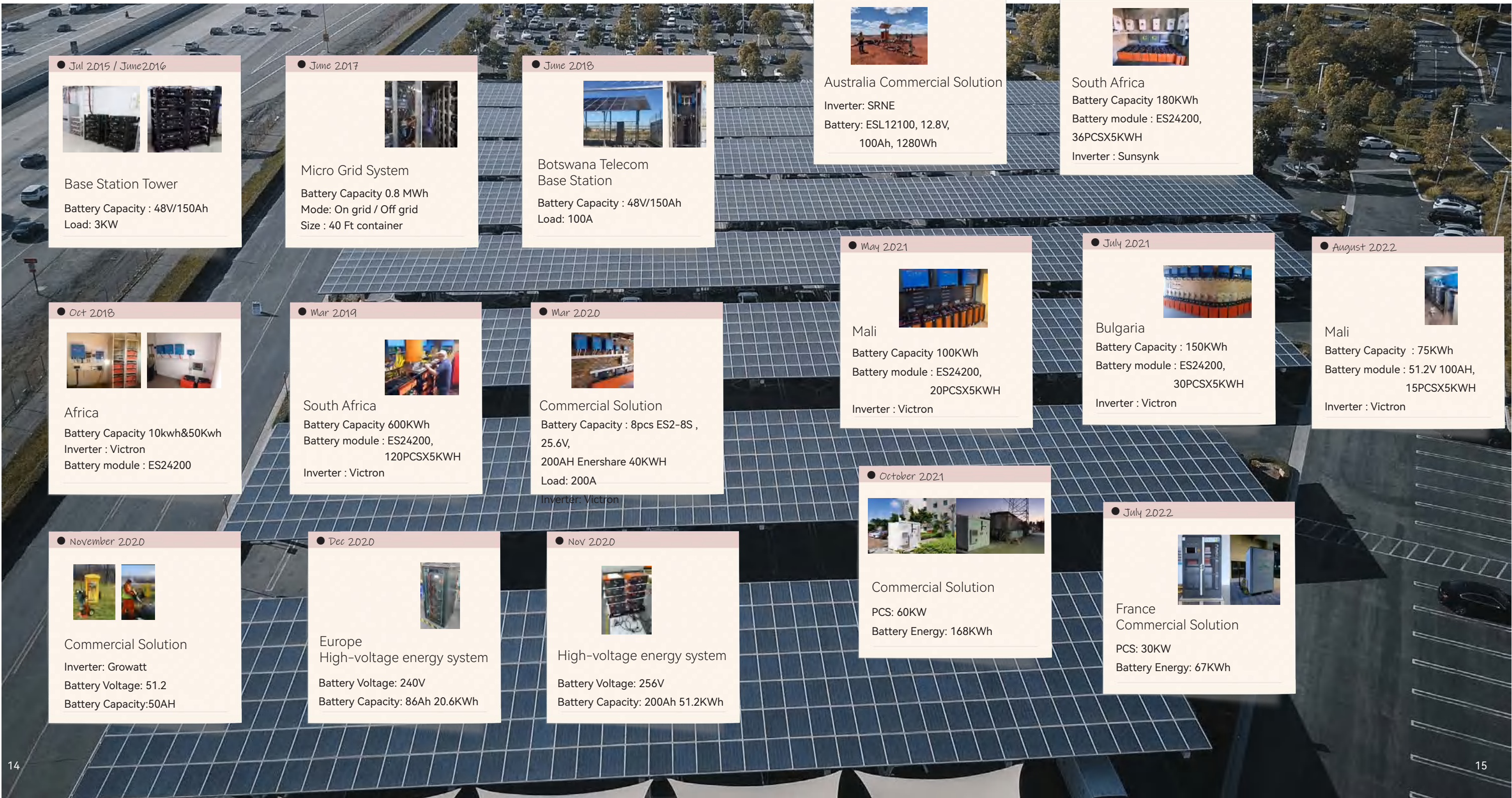
- The first BESS project




2022

- The first Marine BESS application
- Accumulative provides 2GWh of energy to global users
- Blade battery products

Enershare Reference Project



● Jul 2015 / June 2016




Base Station Tower
Battery Capacity : 48V/150Ah
Load: 3KW

● June 2017




Micro Grid System
Battery Capacity 0.8 MWh
Mode: On grid / Off grid
Size : 40 Ft container

● June 2018




Botswana Telecom Base Station
Battery Capacity : 48V/150Ah
Load: 100A

● February 2021




Australia Commercial Solution
Inverter: SRNE
Battery: ESL12100, 12.8V,
100Ah, 1280Wh

● Mar 2021




South Africa
Battery Capacity 180KWh
Battery module : ES24200,
36PCSX5KWH
Inverter : Sunsynk

● Oct 2018




Africa
Battery Capacity 10kwh&50Kwh
Inverter : Victron
Battery module : ES24200

● Mar 2019



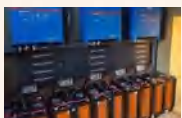
South Africa
Battery Capacity 600KWh
Battery module : ES24200,
120PCSX5KWH
Inverter : Victron

● Mar 2020




Commercial Solution
Battery Capacity : 8pcs ES2-8S ,
25.6V,
200AH Enershare 40KWH
Load: 200A
Inverter: Victron

● May 2021




Mali
Battery Capacity 100KWh
Battery module : ES24200,
20PCSX5KWH
Inverter : Victron

● July 2021



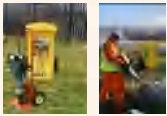
Bulgaria
Battery Capacity : 150KWh
Battery module : ES24200,
30PCSX5KWH
Inverter : Victron

● August 2022



Mali
Battery Capacity : 75KWh
Battery module : 51.2V 100AH,
15PCSX5KWH
Inverter : Victron

● November 2020



Commercial Solution
Inverter: Growatt
Battery Voltage: 51.2
Battery Capacity:50AH

● Dec 2020




Europe
High-voltage energy system
Battery Voltage: 240V
Battery Capacity: 86Ah 20.6KWh

● Nov 2020




High-voltage energy system
Battery Voltage: 256V
Battery Capacity: 200Ah 51.2KWh

● October 2021



Commercial Solution
PCS: 60KW
Battery Energy: 168KWh

● July 2022



France
Commercial Solution
PCS: 30KW
Battery Energy: 67KWh

Enershare Reference Project



250kW/774kWh
Commercial Solution
July 2023

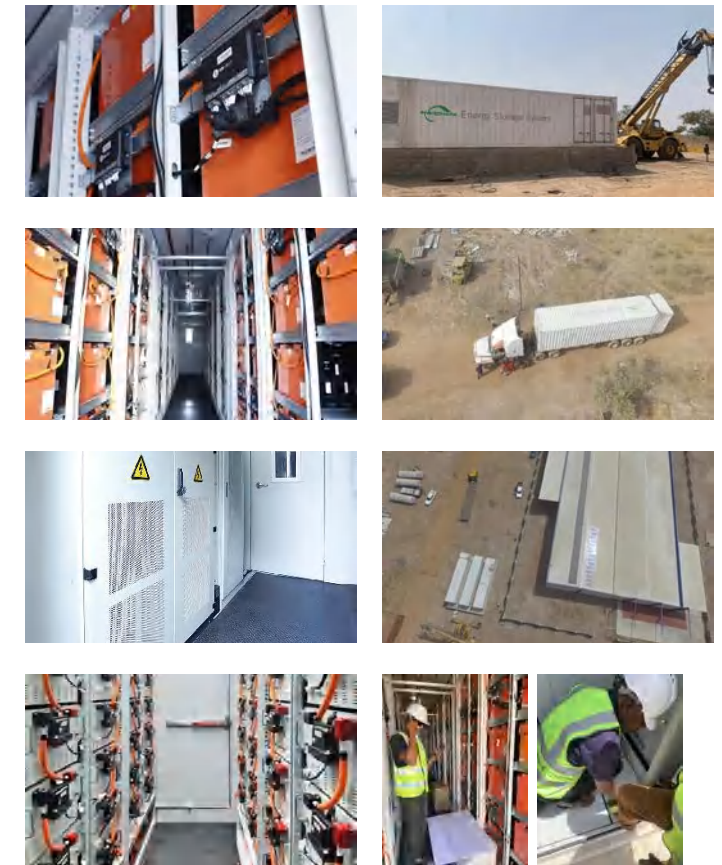


Enershare Reference Project



1.33MWh
Commercial Solution
December 2021
Africa

Inverter: Megarevo
Battery Module: 32V, 210Ah
Cluster: 22PCS per string*9

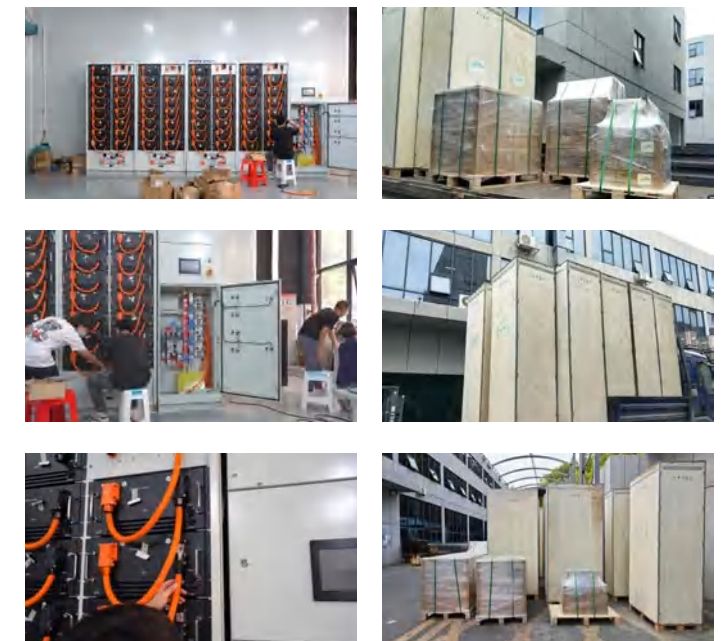


Enershare Reference Project



1.29MWh
Marine Commercial Solution
June 2022
Europe

Inverter: Sinexcel 600KVA
Battery Module: 38.4V, 280Ah
Cluster: 15PCS per string*8





2U / 3U / 4U / 5U

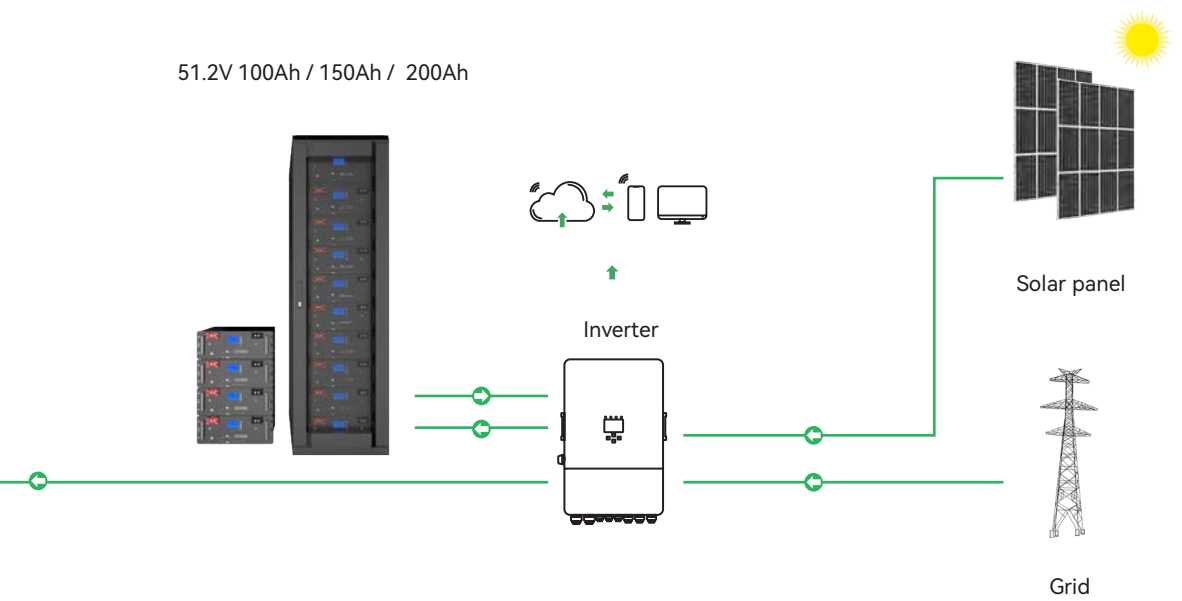
51.2V 100Ah / 150Ah / 200Ah

Description:

Scalable from 5.12 KWh to 327.68 KWh

Maximum Flexibility for any Application with up to 64 Modules Connected in Parallel

51.2V 100Ah / 150Ah / 200Ah



2U 51.2V 100Ah

Rack / Powerwall / Stack

Multiple installation modes

Scalable from **5.12 kWh to 82 KWh**

Connected in Paralle **Maximum 16 Modules**



Specification

- Flexible capacity options, 5.12KWh-82 KWh
- Maximum Flexibility for any Application with up to 16 Modules Connected in Parallel;
- Compatible with Market 90% Inverters;
- Excellent safety of LiFePO4 battery Maximum Safety, Lifespan and Power;
- Self-Consumption Optimization for Residential and Capable of High-Powered Emergency-Backup and Off-Grid Function Commercial Applications

2U 51.2V 100Ah

Data sheet

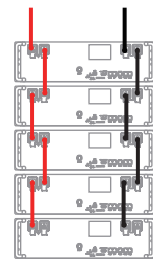
Model no	2U ES51100
Normal Voltage	51.2V
Normal Capacity	5.12kwh
Usable Capacity	5kwh
Operating voltage	48~57.6V
Charging / Discharging Current	100A Max
Rated discharging power	2.5KW
MAX discharging power	5KW
General Data	
Dimension (W/D/H)	478*550*88mm
Weight	40kg
IP Protection	IP20
Working Temperature	-10 °C ~ +50 °C
Storage Temperature	-20 °C ~ +45 °C
Features	
Cycle Life	>6000(25°C , 90% DOD)
Parallel Connection	Max.16 packs
Communication port	CAN2.0/RS485
Warranty	10 years
ICE62619,CE,UN38.3,UL1973,FCC	

Compatible with Market Leading 1 and 3 Phase Inverters



3U

Touch Screen 51.2V 100Ah



Scalable from
5.12 kWh to 80 kWh

Connected in Parallel
Maximum 16 Modules

Specification

- Built-in BMS, with battery voltage, current, temperature and health management
- LCD Screen display the battery voltage, current, temp.,SOC detail information
- Support communicate with solar inverter bu CAN or RS485
- Update software by RS485 port
- Flexible customization of dimensions
- More than 5 years design life

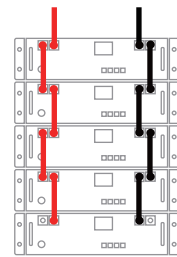
3U Touch Screen ES 51.2V 100Ah

Data sheet

Model no	3U ES51100
Nominal voltage	51.2V
Nominal voltage	100Ah
Energy	5120Wh
Operating voltage range	43.2V~58.4V
Charging method	CC/CV
Standard charge current	20A
Maximum charge current	100A
Standard discharge current	20A
Maximum discharge current	100A
Cycle life	≥ 6000 cycles
Size	460*442*132mm
Weight	45kg
Operating temperature	Charging: 0°C ~45°C Discharging: -20°C ~60°C
Storage temperature	less than 1 month: -20°C ~ +60°C less than 6 months: -10°C ~ +40°C

4U/5U

51.2V 100Ah 150Ah 200Ah



Scalable from
5.12 kWh to 82 kWh



Connected in Parallel
Maximum 16 Modules

4U 51.2V 100Ah 150Ah 200Ah

Data sheet

Model no	4U ES51100	5U ES51150	5UES 51200
Nominal voltage	51.2V	51.2V	51.2V
Nominal voltage	100Ah	150Ah	200Ah
Energy	5120Wh	7680Wh	10240Wh
Operating voltage range	43.2V~58.4V	43.2V~58.4V	43.2V~58.4V
Charging method	CC/CV	CC/CV	CC/CV
Standard charge current	20A	30A	40A
Maximum charge current	100A	100A	100A
Standard discharge current	20A	30A	40A
Maximum discharge current	100A	100A	100A
Cycle life	≥ 4000 cycles	≥ 4000 cycles	≥ 4000 cycles
Size	460*442*177mm	530*442*221mm	530*442*221mm
Weight	47kg	75kg	85kg
Operating temperature	Charging: 0°C ~45°C Discharging: -10°C ~50°C		
Storage temperature	less than 1 month: -10°C ~ +45°C less than 6 months: -10°C ~ +35°C		

Specification

- Flexible capacity options, 5.12kWh-82 kWh
- Maximum Flexibility for any Application with up to 16 Modules Connected in Parallel;
- Compatible with Market 90% Inverters;
- Excellent safety of LiFePO4 battery Maximum Safety, Lifespan and Power;
- Self-Consumption Optimization for Residential and Capable of High-Powered Emergency-Backup and Off-Grid Function Commercial Applications

High Voltage Stack Battery

15KWh -40KWh



15KWh -40KWh High Voltage Stack Battery

Data sheet

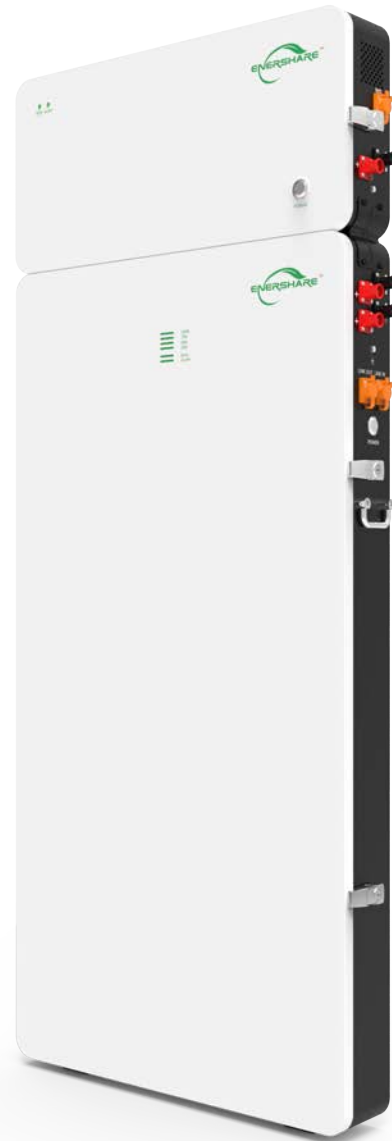
Model no	ESS5105S-3	ESS5105S-4	ESS5105S-5	ESS5105S-6	ESS5105S-7	ESS5105S-8
Number of Modules	3	4	5	6	7	8
Battery System Capacity	15.36KWh	20.48KWh	25.6KWh	30.72KWh	35.85KWh	40.96KWh
Useable Energy	15KWh	20KWh	25KWh	30KWh	35KWh	40KWh
Nominal Voltage	153 V	204 V	256V	307 V	358V	409V
Operating Voltage Range (V)	130~173 V	173~230 V	216~288 V	260~345 V	302~403 V	346~461 V
Rated Power (KW)	5.7KW	7.6KW	9.5KW	11.4KW	13.2KW	15.1KW
Rated Discharge Current (A)	37A	37A	37A	37A	37A	37A
Max Discharge Current (A)	60A	60A	60A	60A	60A	60A
Rated Charging Current (A)	37A	37A	37A	37A	37A	37A
Max Charging Current (A)	60A	60A	60A	60A	60A	60A
Peak Output Current	75 A, 5s	75 A, 5s	75 A, 5s	75 A, 5s	75 A, 5s	75 A, 5s
Dimensions (H/W/D)	864x670x336mm	1082x670x336mm	1300x670x336mm	1518x670x336mm	1736x670x336mm	1954x585x295mm
Weight	151kg	193kg	235kg	277kg	319kg	361kg
Operating Temperature	10 ° C to +50° C					
Operating Humidity / Altitude	0~95%RH / <= 3000m					
Battery Cell Technology	Lithium Iron Phosphate (cobalt free)					
Communication	RJ 45 (CAN / RS485)					
Enclosure Protection Rating	IP65					
Life Cycle	≥ 6000 cycles @ 80% EOL,25° C,100%DoD					
Certification	IEC62619/ UN38.3					
Applications	On Grid / On Grid + Backup / O Grid					
Warranty	10 Years					

Specification

- Auto ID
- Automatically assign any host
- Smart Temperature Control
- Smart parallel technology compatible with batteries with different SOC and voltages

with up to 100% usable energy
 IP65 Protection Rating
 Modular designer, natural cooling, indoor use
 Flexible Options Supports up to 3 units in parallel
 Expandable Capacity Eortlessly combine multiple units to
 Intelligent temperature control guarantees battery safety and longevity
 cycle life 6000 cycles

HV (DC/DC)Battery 10KWh



Specification

- Up to 10 Years of Service Life > 6000 Cycles
- Compact modular design
- Deliver up 10kWh with a single module
- Multiple Safety and fault protection setting
- Sleep mode and Permanent failure mode
- Intelligent battery management system inside

HV 10KWh Battery

Data sheet

Model No	ENP4020
Number of Power Modules	1
Battery Module Energy	10kWh
Useable Energy	9.8kWh
Max output power	5kW
Peak output power	7kW, 10s
Nominal voltage	400V
Operating Voltage Range (Single Phase)	350V-430V
General Data	
Dimension (W/D/H)	1470x110x600mm
Weight (included floor stand toolkit)	90Kg
Power Module Dimension (W/D/H)	20x110x600mm
Power Module weight	8Kg
Battery Module Dimension (W/D/H)	1200x110x600mm
Battery Module Weight	80Kg
Installation	Floor Stand (Standard), Wall mount (optional)
Operating temperature	-10°C ~ + 55°C
Operating altitude	0-4,000 m (Derating above 2,000 m)
Environment	Indoor/Outdoor
Relative humidity	5%~95%
Cooling	Natural convection
Protection rating	IP65
Noise emission	<29dB
Features	
Cycle Life	> 6000 (@ 25°C, DoD 90%)
Display	SOC Status indicator LED Indicator
Cell Technology	Lithium-iron phosphate (LiFePo4)
Parallel Connection	Max 3 Systems in parallel operation
Communication ports	CAN2.0 / RS485
Warranty	5~10 Years
Product certification CE, IEC 62619, UL1973, UN 38.3, RoHS	

Stack Battery

10KWh-30KWh

Up to 81.92KWh in parallel



Specification

The battery module system consists of single LFP cells, wire, BMS and container.

- Packed with high performance LFP single cell, long life, safety and wide temperature range
- Packing with single cell container, fire retardant wire and laser welding, stable and safe
- Built-in BMS, with battery voltage, current, temperature and health management
- LCD Screen display the battery voltage, current, temp.,SOC detail information
- Set different communication protocols through LCD touch screen
- Support communicate with solar inverter by CAN or RS485
- Support 16 nos in parallel and communicate by RS485/CAN
- Integrated with fire extinguishing module inside, Prevention of fire

10KWh-30KWh Battery

Data sheet

Model No	VES5000S2	VES5000S3	VLES5000S4	VLES5000S5	VLES5000S6	
Battery Module Type	VLES5000VS					Standard module
Module Number	2	3	4	5	6	Up to 16pcs modules in parallel
Rated Voltage[V]	51.2					
Voltage Range[V]	44.8~56.0					
Rated Energy[kWh]	10.24	15.36	20.48	25.6	30.72	Up to 81.92kWh in parallel
Current[A]	Maximum charge / discharge current: 200					
Dimension: [H*W*D, mm]	1100*674*170	1520*674*170	1310*1348*170	1520*1348*170	1520*1348*170	
Weight[kg]	122	176	233	290	343	
Communication	CAN / RS485					Compatible with inverter
Environment Parameter						
Round-Trip Efficiency	> 95%					
IP Level	IP55					
Operation Temperature Range	Charge: 0°C ~45°C Discharge: -20°C ~60°C					
Installation Method	Floor-mounted					
Service Life						
Cycle Life	> 6000 (0.5C @25°C, 80% DOD)					
Design Life [Year]	15					
Certification						
Safety & Certification	UL1973 , CB (TUV- IEC62619) , CE , UL9540A					
Transportation	UN38.3					

Household Energy Storage System

Electrical load

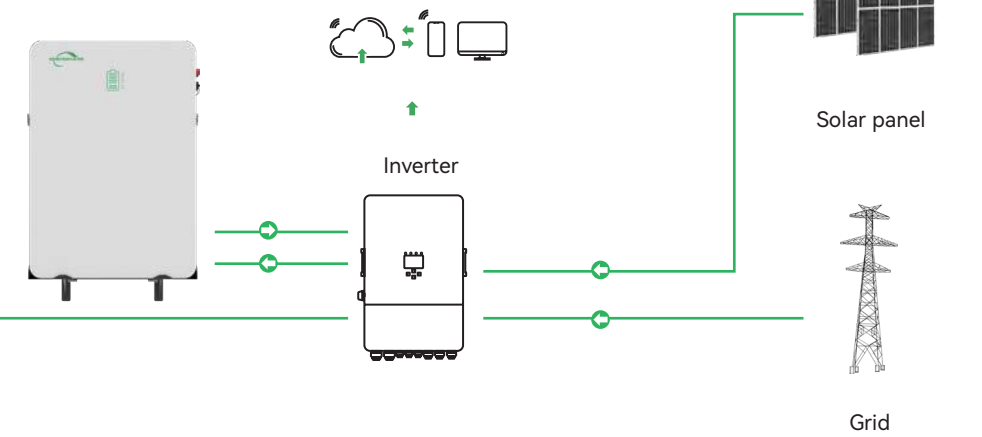
Powerwall

51.2V 100Ah / 150Ah / 200Ah

Description:

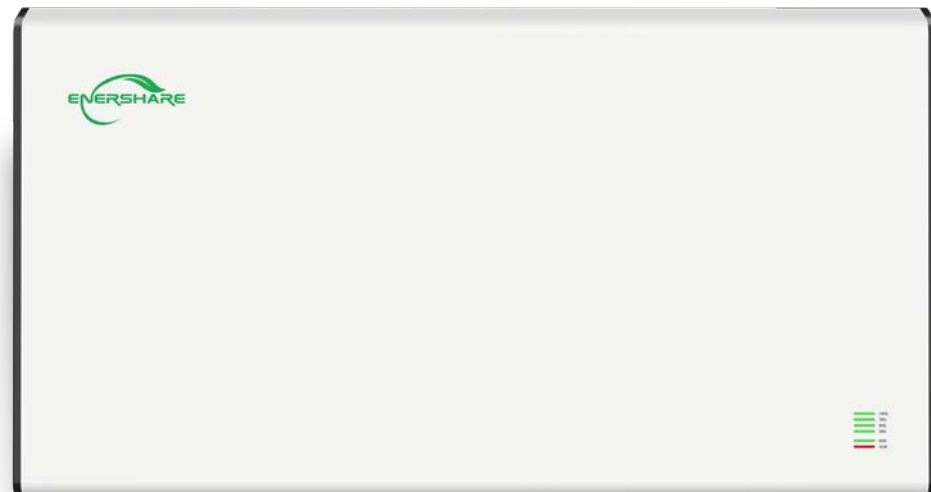
Scalable from 5.12 KWh to 82 KWh
 Maximum Flexibility for any Application with up to 16 Modules Connected in Parallel

Wall Mount Battery
 51.2V 100Ah / 150Ah / 200Ah



Blade Battery Powerwall

7KWh 51.2V 135Ah



7KWh Blade Battery Powerwall

Data sheet

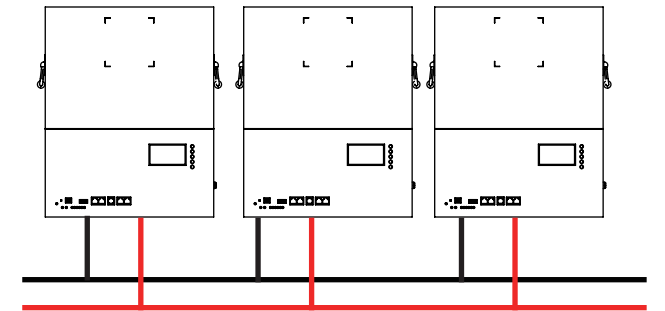
Model no	ES S4020
Battery module Energy	7.06kWh
Useable energy	6.9kWh
Max Output Power	5kW
Peak Output Power	5.6kW
Nominal Voltage	51.2V
Operating Voltage range (Single Phase)	43.2V-57.6V
Dimension (W/D/H)	1090x580x80mm
Weight	75 Kg
Installation	Wall mount
Operating Temperature	10C~+55C
Operatign Altitude	0-3000 m (Derating above 2000 m)
Environment	Indoor
Relative Humidity	5%~95%
Cooling	Natural Convection
Protection Rating	P20
Noise Emission	db
Cycle Life	>6000 (@25C, DoD 90%)
Display	SOC Status indicator LED Indicator
Cell Technology	BYD Blade Battery (LiFePo4)
Scalability	Max 32 Systems in parallel operation
Communication Ports	CAN / RS485
Warranty	5 Years Standard (10 Years Optional)

Specification

- Auto ID
 - Automatically assign any host
 - Smart Temperature Control
 - Smart parallel technology compatible with inverter with dierent SOC and voltages
- Eciency with up to 90% usable energy
 IP20 Protection Rating
 Modular designer, natural cooling, indoor use
 Supports up to 32 units in parallel, with a total capacity of up to 225.92 kWh
 Intelligent temperature control guarantees battery safety and longevity
 Cycle life exceeds 6000cycles for long-lasting reliability.

Powerwall Battery

51.2V 100Ah / 200Ah



Scalable from
5.12 kWh to 82 KWh

Connected in Parallel
Maximum 16 Modules

51.2V 100Ah / 200Ah Powerwall Battery

Data sheet

Model No	ES51.2V 100Ah	ES51.2V 200Ah
Nominal Voltage	51.2V	51.2V
Nominal Capacity	100Ah	200Ah
Energy	5.12 KWh	10240Wh
Operating voltage range	43.2V~58.4V	43.2V~58.4V
Charging method	CC/CV	CC/CV
Standard charge current	20A	30A
Maximum Continuous Charge Current	100A	100A
Standard discharge	20A	30A
Maximum Continuous Discharge Current	100A	100A
Cycle life	≥ 4000 cycles	≥ 4000 cycles
Size	W450*H604*D195 mm	W605*H450*D195 mm
Weight	55 KG	85kg
Operation Temperature Range	Charge: 0~45°C Discharge: -20~55°C	
Storage Temperature Range	Less than 12 months : -10~45°C	

Specification

- Safety/Reliable LFP chemistry
- Intelligent BMS built-in compatible to major inverter brands
- Compact size for easy installation
- Diverse model options and expanded
- More than 10 years service life

Blade Battery Powerwall

7KWh 51.2V 135Ah



Specification

- The battery module consists of single LFP cells, wire, BMS and container.
- Built-in BMS, with battery voltage, current, temperature and health management
- LED indicate the battery SOC and operating status
- LCD Screen display the battery voltage, current, temp.,SOC detail information
- Support communicate with solar energy storage inverter by CAN or RS485
- Flexible customization of dimensions

51.2V 135Ah BladePowerwall Battery

Data sheet

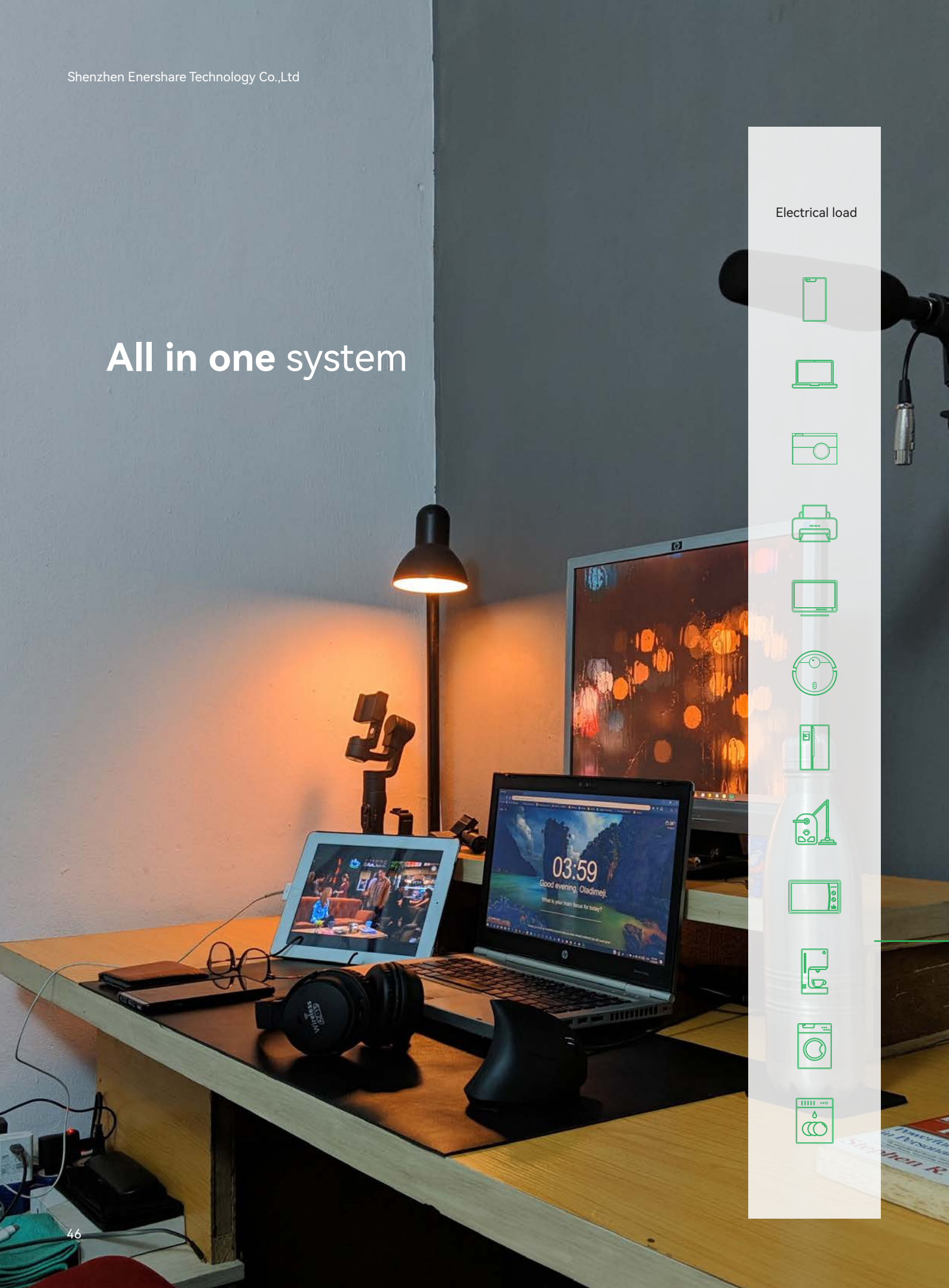
Electrical Spec	
Nominal Voltage	51.2V
Nominal Capacity	135Ah
Energy	6912Wh
Operating voltage range	43.2V~58.4V
Charging method	CC/CV
Standard charge current	30A
Maximum Continuous Charge Current	100A
Standard discharge	30A
Maximum Continuous Discharge Current	120A
Cycle life	≥ 6000 cycles
Size	H1020*W540*D74mm
Weight	85kg
Operation Temperature Range	Charge: 0~45°C Discharge: -20~55°C
Storage Temperature Range	Less than 12 months : -10~35°C less than 3 months: -10~45°C Less than 7 day : -20~65°C

Household Energy Storage System

Application scheme



All in one system



Electrical load

-
-
-
-
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-
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-
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-
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-

Plug & Play All in one system

Description:

The all-in-one system adopts integrated design, integrated installation, protection level up to IP65, mainly used for household photovoltaic system. It integrates a hybrid inverter and LFP battery pack. The battery pack has a modular, expandable design, enabling flexible power configuration, and the hybrid inverter power supports 5kW. The product supports power grid, photovoltaic and battery access at the same time, and has the function of off-grid operation. The system has the advantages of high energy density, long cycle life and high compatibility.



All in One Plug & Play

5KW 10KWh



Specification

- Auto ID
- Automatically assign any host
- Smart Temperature Control
- Smart parallel technology compatible with batteries with different SOC and voltages

Efficiency with up to 90% usable energy
 IP20 Protection Rating
 Modular design, natural cooling, indoor
 Supports up to 6 units in parallel, with a total capacity of up to 60 kWh
 Intelligent temperature control guarantees battery safety and longevity
 Cycle life exceeds 6000 cycles for long-lasting reliability.

5KW/10KWh All in One Plug & Play

Data sheet

Model no	ES S5k200
AC Input/Output Parameters	
Ac Input voltage	AC 230 V
Optional Voltage	170-280V AC(Personal Computer)
Optional Voltage	90-280v AC(Home Load)
Frequency Range	50Hz/60Hz (Auto Sensing)
Max AC Charge Current	60A @DC 57.6V
AC Output Voltage	230V AC ±5%
Efficiency (Peak)	Upto 93.5%
Transfer Time	10ms (Personal Computer); 20ms (Home Load)
Surge Power	11000VA
Waveform	Pure Sine Wave
PV Voltage Range	120V-450V DC
Max. PV Open Circuit Voltage	500V DC
Max. Solar Charge Current	100A @ 57.6 DC
Max. PV Array power	6000W
Battery Parameters	
Battery Type	Lithium iron phosphate
Normal Voltage	51.2V
Normal Capacity	10.24kWh
Useable Capacity	10kWh
Operating Voltage	48~57.6V
Rated Charging current	50A
Max Charging Current	100A
Recycle Time	6000 (@25C, DoD 90%)
Environment Requirements	
Humidity	5% to 90% Relative Humidity
Battery Recycle Time	6000 (@25C, DoD 90%)
Operating Temperature	-10° C to 50° C
Storage Temperature	-10° C to 60° C
Warranty	5 Years

Stack All-in-one Three Phases 10KWh-60KWh



Remark: 4 Modules System Diagram,
Max supports 12 modules in Parallel

Specification

The all-in-one system adopts integrated design, integrated installation, protection level up to IP65, mainly used for household photovoltaic system. It integrates a hybrid inverter and LFP battery pack.

The battery pack has a modular, expandable design, enabling flexible power configuration, and the hybrid inverter power supports 5kW.

The product supports power grid, photovoltaic and battery access at the same time, and has the function of off-grid operation. The system has the advantages of high energy density, long cycle life and high compatibility.

Three Phases 20KWh Stack All-in-one Data sheet



Name	Inverter	Battery Module	Battery base
Dimension:W*D*H (mm)	674*170*420	674*170*420	674*170*50
Weight (Kg)	25	55	2.25

PV Input		Storage RH (%)	
MPPT Voltage Operation Range (V)	200-850	Altitude (m)	<2000
Max Input Power (W)	11500	IP	IP65
Max Input Voltage (V)	1000	Display	LCD/APP/Website
Max Input Current / String (A)	13	Cooling Method	Natural cooling
AC Input & Output (Grid)		Installation	Floor-mount
Max AC Input Power (VA)	16000	Pack Specification	
Max AC Input Power (VA)	24.2	Cell Type	LFP
Max AC Input Current (A)	12000	Cell configuration	16S1P
Rated Output Power (W)	13000	Nominal Voltage (V)	350-450
Max Output Power (VA)	17.4	Nominal Capacity (Ah)	100
Max Output Current/phase (A)	21.1	Nominal Energy/Module (Wh)	5120
THDI	<3%	System Energy (Wh)	20480(4 Modules)
Emergency Output		Charge Voltage (V)	57.6
Max Output Power (VA)	12000	Max Charge Current (A)	25
Peak Output Power (VA)	14400	Max Discharging Current (A)	10
Max Output Current/phase (A)	17.4	Charge Temperature Range (°C)	0~45
Rated Output Voltage (V)	3L/N/PE 380/220 ; 400/230 ; 415/240	Discharge Temperature Range (°C)	-20~60
Output Frequency (Hz)	50/60	Storage Temperature Range (°C)	-20~45
THDU	<3%	Humidity (%)	5~95%RH
Transfer Time (ms)	<1.5 (with EPS Box)	Cooling method	Natural cooling
Efficiency		Cycle Life (Time)	≥ 6000 (80% DOD, Remaining 80%)
Max Battery Discharge Efficiency	94%	Communication	CAN&RS485
Max Charge Efficiency (PV to battery) @ Full load	~98.5%	Max Battery Parallel Number	12
System Parameter		Weight (Kg)	55
Dimensions (mm)	674*170*2165		
Work Temperature Rang (°C)	-25~+60 (Derating @45°C)		
Storage Temperature (°C)	-20~+45		

Stack All-in-one Single Phase 10KWh-40KWh



Remark: 2 Modules System Diagram,
Max supports 8 modules in Parallel

Specification

The all-in-one system adopts integrated design, integrated installation, protection level up to IP65, mainly used for household photovoltaic system. It integrates a hybrid inverter and LFP battery pack.

The battery pack has a modular, expandable design, enabling flexible power configuration, and the hybrid inverter power supports 5kW.

The product supports power grid, photovoltaic and battery access at the same time, and has the function of off-grid operation.

The system has the advantages of high energy density, long cycle life and high compatibility.

Single Phase 10KWh-40KWh Stack All-in-one Data sheet



Name	Inverter	Battery Module	Battery base
Dimension:W*D*H (mm)	674*170*455	674*170*420	674*170*50
Weight (Kg)	25	55	2.25

PV Input		Storage RH (%)	5%~90% (noncondensing)
PV Input	350-360	Altitude (m)	<2000
MPPT Voltage Operation Range (V)	80-550	IP	IP65
Max Input Power (W)	6500	Display	LCD/APP
Max Input Voltage (V)	600	Cooling Method	Natural cooling
Max Input Current (A)	13	Inverter Topology	Non-isolated
AC Input & Output (Grid)		Installation	Floor-mount
Max AC Input Current (A)	32-45.5	Pack Specification	
Rated Output Power (W)	5000	Cell Type	LFP
Max Output Power (VA)	5500	Cell configuration	16S1P
Rated Output Current (A)	21.7	Nominal Voltage (V)	51.2
Max Output Current (A)	23.9	Nominal Capacity (Ah)	100
Rated Output Voltage (V)	220/230/240	Nominal Energy /Module (Wh)	5120
THDI	<3% (Nominal Power)	System Energy(Wh)	10240(2 Modules)
Emergency Output		Charge Voltage (V)	57.6
Max Output Power (VA)	4000-6000	Max Charging Current (A)	100
Peak Output Power (VA)	6900-7200	Max Discharging Current (A)	100
Max Output Current (A)	16-26.1	Charge Temperature Range (°C)	0~45
Rated Output Voltage (V)	220/230/240 (+/-0.2%)	Discharge Temperature Range (°C)	-20~60
Output Frequency (Hz)	50/60 (+/-0.2%)	Storage Temperature Range (°C)	-20~45°C
THDU	<2%	Humidity (%)	5~95%RH
Transfer Time (ms)	<20	Cooling method	Natural cooling
Efficiency		Cycle Life (Time)	≥ 6000 (80% DOD, Remaining 80%)
Max Battery Discharge Efficiency	91%	Communication	CAN&RS485
Max Charge Efficiency (PV to battery) @ Full load	98.5%	Max Battery Parallel Number	8
System Parameter		Weight (Kg)	55
Dimensions	674*170*1335mm		
Work Temperature Rang (°C)	-20~+60 (Derating @45°C)		
Storage Temperature (°C)	-20~+45		

Stack All-in-one

5KW-10KWh



Specification

- High cost performance.
- Easy to assemble.
- Support PV and main charging.
- Support 110V or 220V output.
- Modular design, capacity/power can be freely selected.
- Use LFP cell, safe and reliable, with a design life of more than 5 years.

5KW-10KWh Stack All-in-one

Data sheet

Inverter Parameters

Max.Input Power	6600w
Max. Input Current	2*14A
Max.PV Voltage	500V
MPPT Tracker/Strings	2/1
MPPT Range	125~500V
Charge/Discharge Power	5000W
Phase	Single-phase
Rated output voltage	230V
Grid voltage range	180~270V
Rated output frequency	50Hz/60Hz
Backup power supply	EPS
Display	LCD
Operating temperature	-10C~60°C
Relative Humidity	15%~85%(non-condensing)

Battery technical parameters

Battery type	Lithium iron phosphate
Battery capacity	10KWh (2X51.2V 100Ah)
Life	10years (25°C C/77F)
Charge/Discharge Current	Max.100A(Recommend 50A)

System parameters

AC Output	5000W
Protection class	IP20
Dimensions (W/D/H) mm	580/350/1800mm
Weight	170kg

Battery Energy Storage Cabinet



Battery Energy Storage Cabinet

Description:

Commercial & industrial energy storage is a power storage system specially designed for regional microgrids such as small CBDs, farms, islands, outdoor photovoltaic power stations, etc., which can fully guarantee the power demand and energy security in these scenarios.



215KWh All-in-one Battery Energy Storage Cabinet



Specification

- High-performance LiFePo4 battery .
- Intelligent temperature control .
- Real-time data backup.
- Automatic fire fighting system with high safety.
- Patented design with pressure relief and flame arrest.
- One-button start, automatic operating and it support multiple parallel connection.
- Protection class IP55, suitable for outdoor use.
- Four layers of safety protection design for reliability.
- Remote viewing service.

215KWh Battery Energy Storage Cabinet

Data sheet

© Model	EnersBrick2.0-25P	EnerBrick2.0-50P	EnerBrick2.0-100P
Battery parameters			
Cell Type	LFP-280Ah		
Module Model	IP20S		
System Configuration	1P240S		
Battery Capacity (BOL)	215kWh		
Battery voltage range	672V-864V		
AC on-grid parameters			
Grid Type	3P4W		
Rated charge/discharge power	25KW	50kW	100kW
Rated grid voltage	AC400V		
Grid Voltage range	-15%~+15%		
Rated grid frequency	50Hz		
Frequency range	±5Hz		
Rated current	43A	72A	144A
Power Factor	0.8 (Leading) ~0.8 (Lagging)		
Output Harmonics (Rated power)	≤ 3%		
General parameters			
Dimension (W*H*D)	1900*2100*1330mm		
Max Weight	2500kg		
IP Protection Rating	IP55 (Battery room) IP34 (Electrical room)		
Seismic Intensity Rating	8 degree (IEC60980)		
Anti-corrosion grade	C3		
Operating temperature 【1】	-20°C ~ 50°C		
Relative Humidity	0-95% (Non-condensing)		
Altitude 【2】	< 2000m		
Cooling method	Battery room: air conditioning; Electrical room: forced air cooling		
Noise	≤ 75dB		
Fire fighting System	Automatic fire extinguishing		
Fire extinguishing media	FM200		
Communication Interface	RS485、 Ethernet		
Communication protocols	Modbus RTU、 Modbus TCP/IP		
Photovoltaic side parameters (Optional)			
Maximum input module power	25kW/50kW	25kW/50kW/100kW	25kW/50kW/100kW
MPPT Voltage Range	200V-850V	200V-850V	200V-850V
Number of MPPT paths	1/1	1/1/2	1/1/2
Number of PV input channels	1/1	1/1/2	1/1/2
Maximum input current	100A/200A	100A/200A/400A	100A/200A/400A

50KW/200KWh AC Coupled All-in-one Battery Energy Storage Cabinet



Specification

- Modular and flexibly expandable battery storage system at the power and capacity level.
- All-in-one design, AC-coupled solution.
- Outdoor housing for any installation site.
- Easy maintenance due to modular design (Battery modules, BMS, control design).

50KW/200KWh AC Coupled Energy Storage Cabinet

Data sheet

Type	Storage	Solar + Storage
Battery Parameters		
Cell Type	LFP Prismatic Type	
Battery Capacity (Kwh)	50~200	50~200
Voltage Range (V)	250~800	320~800
Max. Charging Power (Kw)	50/150	30/100
AC On-grid Parameter		
Grid Type	3W+N+PE	
Input / Output (Kw)	50~150	50
AC Voltage (V)	320~460	
Applicable Grid Frequency (Hz)	45~55/55~65	
THDi	<3%(100% load)	
Power Factor	1(Leading)~1(Lagging)	
AC Off-grid Parameter		
Rated Charge/Discharge Power(Kw)	50~150	50
Max Output Power (KVA)	50~150	55
Rated AC Voltage (V)	400	
Nominal Frequency (Hz)	50/60	
THDu	≤ 1% linear; or ≤ 5% nonlinear	
Photovoltaic Input		
Max Input Power (KW)	--	50/100
MPPT Voltage Range (V)	--	250~850
General Parameter		
Dimension:W*D*H(mm)	2200*1100*2340	
Max. Weight (Kg)	3200	
IP Degration	IP54	
Operating Temperature Range (° C)	-20~50	
Relative Humidity	0~95%(No condensation)	
Altitude	<2000m	
Cooling Method	Heat Ventilation Air Conditioner	
Noise (dB)	≤ 75	
System Efficiency	≥ 85%	
Firefighting System	Intetared	
Communication	Ethernet, Modbus TCP/IP	
Certification		
Safety & Certification	IEC62619, UN38.3	

200KWh DC Coupled Battery Energy Storage Cabinet

Maximum 10 cabinets parallel which supports 2MWh capacity.



Specification

- The battery energy storage system consists of battery racks, BCM and BSMU.
- Packed with high performance LFP single cell, long life, safety and wide temperature range
- High energy density, small size, light weight, no pollution;
- Use BMM-BCM-BSMU third level design, protect voltage, current, temperature in whole process
- Integrated communication interface, CAN2.0 and RS485 communicate with Inverter
- Integrated LED indicator, display operating status
- Balance between cells, balance between modules
- Standard pack, easily for installation and capacity expansion
- Maximum 10 cabinets parallel which supports 2MWh capacity.

200KWh DC Coupled Energy Storage

Data sheet

Battery module	Module Voltage	51.2V
	Rated capacity	280Ah
	Pack	1P16S
	BMU inside	1
	Dimension (W*D*H)	390*750*230
	Weight	~115±5kg
	Cooling mode	Forced air cooling
	Power Terminal	M8 Screw
Battery Energy Storage System	Voltage Range(V)	627.2~784V
	Series & Parallels	1P-224S
	Rated Voltage(V)	716.8
	Rated Capacity(Ah)	280
	Rated charge/discharge current(A)	140/140
	Rated Energy(kWh)	200.7
	Usable Energy(kWh)	180.63
	Maximum Discharge Current(A)	250
	Maximum Charge Current(A)	140
	Discharge cut-off voltage(V)	627.2V
	Max. Charge voltage(V)	784V
	Recommended Charge type	784V, CC-CV to current <0.05CA
	Cycle life (@25 °C , 0.5C/0.5C,80%DOD)	> 6000
	Dimension (W* D* H)	1100*1100*2340mm
	IP Grade	IP54
Total Weight (Kg)	Approx.2300	
Battery Thermal Management	Industrial air conditioner, 3kW cooling capacity	
Operating temperature	-5 ~ 55°C	
Operating humidity	5%~95%R.H.	
Communication	CAN/RS485	
Dry Contact	Integrated	
LCD Screen monitor	Integrated with the BSMU panel. Touch screen, check battery data & setup parameters	

Battery Energy Storage Cabinet

Application scheme



Containerized (BESS) Battery Energy Storage System



800KW 1720MWh

Containerized (BESS) Battery Energy Storage System

Description:

Energy Storage Container is The commercial and Industrial energy storage a power storage system specially designed for regional microgrids such as small CBD, farms, islands, outdoor photovoltaic power stations, etc., which can fully guarantee the power demand and energy security in these scenarios.

800KW 1720KWh Containerized (BESS) Battery Energy Storage System



Specification

- Adopts All-in-One design and integrates battery modules, intelligent Power Conversion System (PCS), Power Distribution Unit (PDU), Fire Suppression System (FSS), Temperature Control System (TCS), and intelligent Monitoring System (IMS) by one-stop in the container of international standard size, which is easy to lift and transfer, well meet the requirements of ocean and highway transportation.
- Equipped with EV-safety high-performance LFP batteries, and the battery cluster consists of a series of highly reliable automotive process modules.
- Battery Management System (BMS) automatically control and monitor the entire battery system in real time, and it also has functions such as battery balance management and fault self-diagnosis to ensure the safe and smooth operation of the module.
- The Energy Management System (EMS) is responsible for the overall scheduling and the intelligent interconnection with cloud platforms, enabling 24-hour cloud data analysis and intelligent operation and maintenance.

800KW-1720KWh Containerized (BESS) Battery Energy Storage System

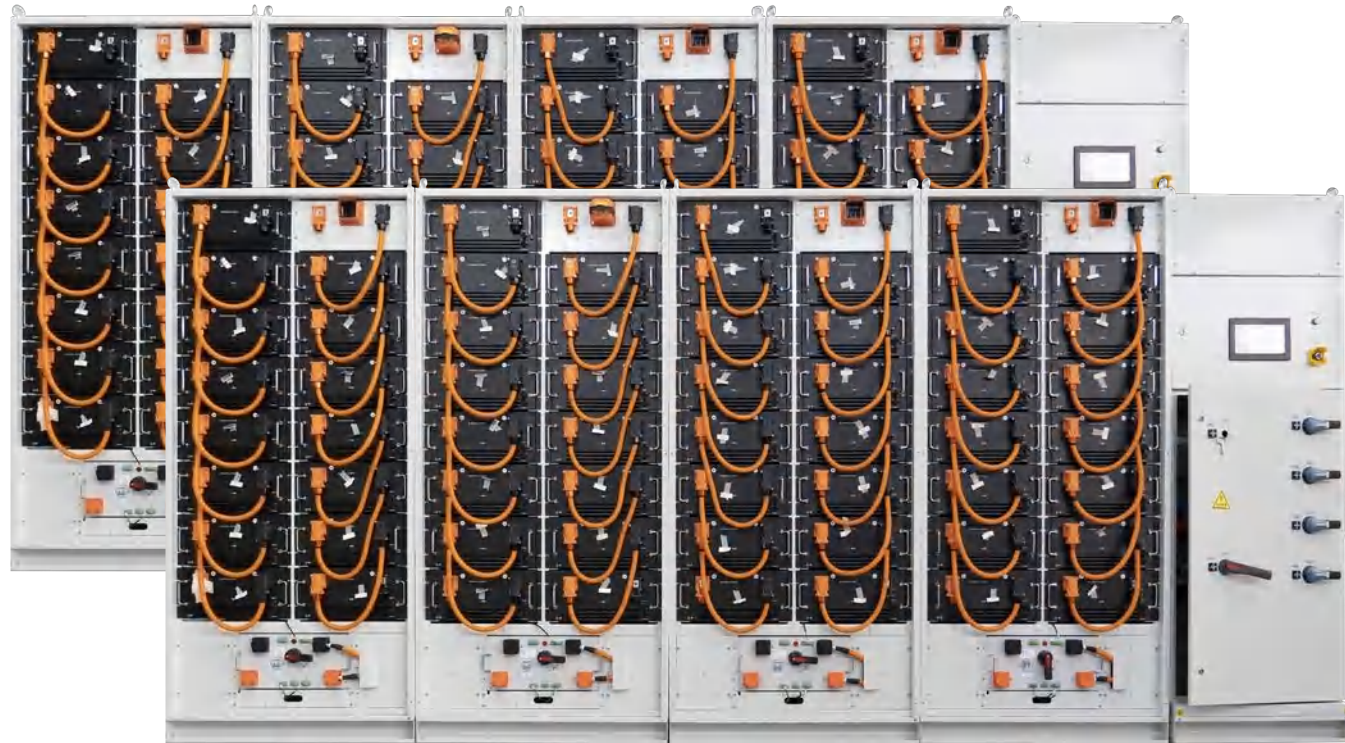
Data sheet

Parameters	Enerbank P400C860	Enerbank P500C1075	Enerbank P600C1290	Enerbank P700C1505	Enerbank P800C1720
Battery Parameters					
Cell type & capacity	LFP-280Ah				
Battery module type	1P20S (P20)				
System configuration	4*1P240S	5*1P240S	6*1P240S	7*1P240S	8*1P240S
System capacity (BOL)	860kWh	1075kWh	1290kWh	1505kWh	1720kWh
AC Output Parameters					
Rated output power	400kW	500kW	600kW	700kW	800kW
Rated voltage	AC400V, 3P4W+PE				
Rated grid frequency	50Hz±5Hz/60Hz±5Hz				
Maximum output current	577A	722A	866A	1010A	1155A
Harmonics	<3% (@rated power)				
Overload capacity	110%, 10mins; 120%, 60s				
General Parameters					
Isolation transformer	No				
Ingress protection	Battery compartment: IP55, Electrical compartment: IP34				
Container anti-corrosion grade	C3				
Operating temperature*	-20° C~55° C				
Relative humidity	0~95% (non-condensing)				
Permissible altitude**	2000m				
Cooling method	Battery compartment: HVAC, Electrical compartment: Forced air cooling				
Noise emission	≤ 75dB				
Dimension (W*D*H)	6058mmx2438mmx2896mm				
Max. weight	25000kg				
Fire fighting system	FAS & FM200/Novac1230				
Communication interface and protocol	Ethernet, Modbus TCP/IP				

*The system will be derated when the ambient temperature exceeds 45°C

**The system will be derated when the altitude is between 2000m and 3000m

1200KW-1.29MWh Marine Battery Power System



Specification

- adopts All-in-One design and integrates battery modules, intelligent Power Conversion System (PCS), Power Distribution Unit (PDU), Fire Suppression System (FSS), Temperature Control System (TCS), and intelligent Monitoring System (IMS) by one-stop in the container of international standard size, which is easy to lift and transfer, well meet the requirements of ocean and highway transportation.
- equipped with EV-safety high-performance LFP batteries, and the battery cluster consists of a series of highly reliable automotive process modules.
- Battery Management System (BMS) automatically control and monitor the entire battery system in real time, and it also has functions functions such as battery balance management and fault self-diagnosis to ensure the safe and smooth operation of the module.
- the Energy Management System (EMS) is responsible for the overall scheduling and the intelligent interconnection with cloud platforms, enabling 24-hour cloud data analysis and intelligent operation and maintenance.

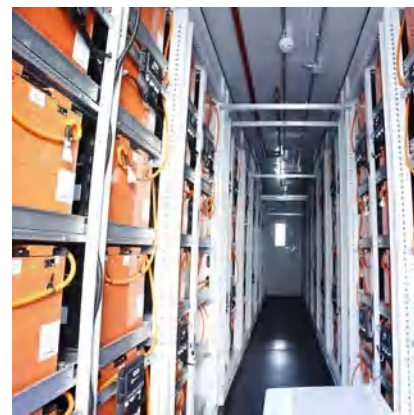
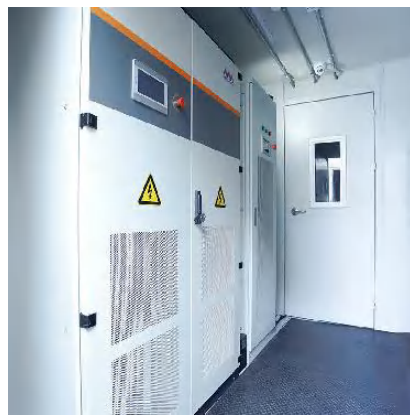
1200KW-1.29MWh Marine Battery Power System

Data sheet

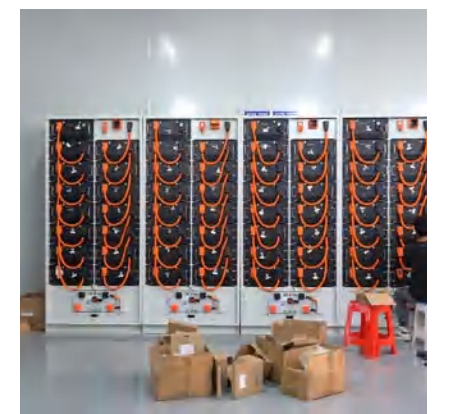
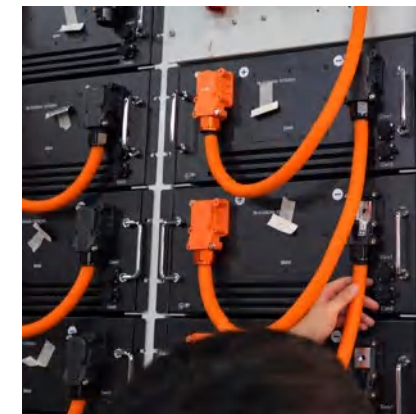
Item	ES2.0-1200
Battery type	LiFePO4
System voltage	576V
System rated capacity	2240Ah
System rated energy	1290KWh
System configuration	8*1P180S
Maximum continuous discharge current	2240A(1C)
Standard discharge current	1120A(0.5C)
Maximum continuous charge current	1120A(0.5C)
Standard charge current	560A(0.25C)
System Weight	6000Kg*2
System Size	5200*550*2450mm*2
Communication Type	CAN2.0, TCP/IP
Motor Power	600KW*2
Charger Power	100KW*2
Working ambient temperature	- 20°C ~+45°C
Storage ambient temperature	- 20°C ~+60°C
Battery size	500*500*226mm
Battery weight	89kg
Battery IP grade	IP44

Commercial Solution

Inverter: MEGAREVO 250KVA 3 phase
Battery Module: 32V, 210Ah
3 Containers: Total 3MWh
Date: May 2021
Location: Africa



Inverter: Sinexcel 600KVA
Battery Module: 38.4V, 280Ah
Cluster: 15PCS per string*8
Container: Total 1.29MWh
Date: June 2022
Location: Europe

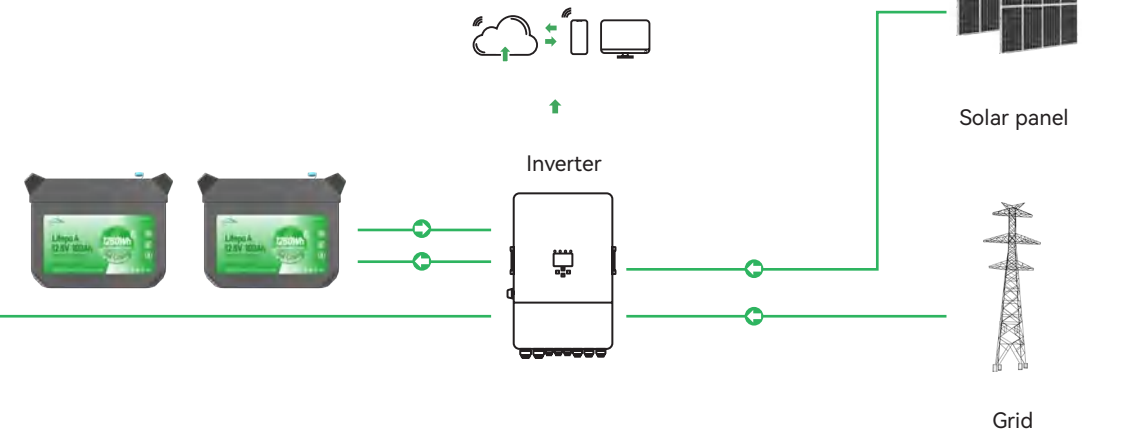


12.8V/25.6V Series LiFePO4 Battery

Electrical load



12.8V/25.6V Series LiFePO4 Battery
12.8V/25.6V 100Ah / 150Ah / 200Ah



12.8V 100Ah LiFePO4 Battery



Specification

- The battery module consists of single LFP cells, wire, BMS and container.
- Packed with high performance LFP single cell, long life, safety and wide temperature range
- High energy density, small size, light weight, no pollution;
- High efficiency, fast charging;
- Built-in BMS, protect voltage, current, temperature in whole process
- Standard VRLA battery case , can replace the VRLA battery directly
- Customize dimension and capacity, Support maximum 4 batteries in series
- 10 years design life, Stable performance, maintenance-free

12.8V 100Ah LiFePO4 Battery

Data sheet

Model/Parameters	LFP-12100L
Rated Voltage	12.8V
Rated Capacity (0.2C, @25°C)	100Ah
Rated Energy	1280Wh
Cell & Pack	LiFePO4, Prismatic, Aluminum shell
Output voltage range	10.0V~14.4V
Charging voltage	14.4V, CC-CV
Cut-off voltage	10.0V
Max. Constant Charging current	100A
Recommended charging current	<50A, best @ 20A
Recommended charging type	CC-CV until current <0.02C
Max.Constant Discharging current	100A
Efficiency	≥ 99.5%
Built-in BMS	
Over-charge protection	Cell>3.8V
Over-discharge protection	Cell<2.3V
Over-current protection	Charging: >150A,delay 1S;
Short circuit protection	Discharging: >300A, delay 1mS; Short circuit: >1500A
Cell balance	Passive, 150mA
Over temperature protection	Charging: 70°C Discharging: 70°C
Case material	ABS
Dimension L*W*H (mm) & Terminal	330*172*215, M8
Weight (kg)	13.8±0.5
Environment	
Humidity	5%~95% relative humidity
Charging temperature	0°C ~+45°C
Discharging temperature	-20°C ~+65°C
Storage temperature	-20°C ~45°C
Service Life	
Cycle life	>2000 times, @0.5C, 25°C
Design life	>10 years

12.8V 100Ah LiFePO4 Battery



Specification

- Packed with high performance LFP single cells, long life, safety, and wide temperature range
- High energy density, high efficiency, fast charging, light weight, no pollution
- Built-in intelligent BMS, with battery voltage, current, temperature and health management
- 15 years design life, stable performance, maintenance free
- Support in series and parallel connection
- Support bluetooth communication monitoring, phone APP for battery monitoring
- Heating function, support to be used below 0°C
- Self designed battery case, easy to carry, with high protection grade-IP65
- Self designed DC control box, for charging phone, camera, and portable personal computer

12.8V 100AH LiFePO4 Battery

Data sheet

Datasheet	
Nominal Voltage	12.8V
Nominal Capacity	100Ah
Energy	1280Wh
Internal Resistance	<30mΩ
Cycle Life	>6000 cycles
Charge Voltage	14.0~14.4V
Discharge Cut-off Voltage	10V
Charge Current	30A
Max. Charge Current	100A
Discharge Current	50A
Max. Discharge Current	100A
Charge Method	CC/CV
Charger	14.6V
Charge Temperature	0 to 50°C (32 to 122 °F)
Discharge Temperature	-20 to 55°C (-4 to 131 °F)
Storage Temperature	-20 to 55°C (-4 to 131 °F)
Protection Grade	IP65
Dimension(L/W/H)	287*181*231.1mm (11.3*7.1*9.1inch)
Weight	11.5kg (25.35lbs)
Terminal Type	M8
Bluetooth	2.4GHz
Heating Function:	Turn on: <0°C Turn off: >5°C

25.6V 100Ah LiFePO4 Battery



Specification

- EV-grade safety lifepo4 cells, with lead acid battery shell and built-in BMS.
- 50AH and 100AH can support high rate discharge, max. discharge current can reach 200 amp, quick charge within 30mins.
- Can support in series connection to be used in 48 volt systems, can support in parallel connection up to 2 pcs.
- Application: solar energy system, solar lighting system, household energy back-up, UPS, RV, Golf Cart, portable device, boat.
- Can support a variety of customization functions, metal housing, bluetooth (customized IOS APP), heating, LCD display screen, communication (RS485 port/USB port), waterproof.

25.6V 100Ah LiFePO4 Battery

Data sheet

Datasheet

Rated voltage	25.6V
Rated capacity	100Ah
Rated energy	2560Wh
BMS Function	Battery management system(BMS)built in,voltage and current protection for over.

Operating parameter

Output voltage range	20V~28V
Charging voltage	27.6~28.4V
Cut-off voltage	20V
Standard charge current	20A
Max. Charging current	100A
Standard discharge current	20A
Max. Discharging current	100A

Physical

Dimension L*W*H (mm)	482*170*240
Weight (kg)	20.5kg

Environment

Humidity	5%~95% Relative humidity
Charging temperature	0°C ~45°C
Discharging temperature	-20°C ~60°C
Storage temperature	-20°C ~45°C