

INNCOM
ENGINEERING



Inncom Engineering OY

FIN-40100, Gummeruksenkatu 7, Jyväskylä, Finland.

Dongying Cospowers Technology Co., Ltd.

No.28, Dongqi Road, Dongying City, Shandong Province, P.R.C.

Harbin Coslight New Energy Co., Ltd.

No.8 Taihunan Road, Jizhong Area, Yingbin Road, Development Zone, Harbin, P. R. China

Shenzhen Coslight Technology Co., Ltd.

No.2, Guangtian Road, No.3 Industrial Zone, Luotian Community, Yanluo Street, Baoan District, Shenzhen, Guangdong Province, P.R.C

Changde Cospowers New Energy Technology Co., Ltd.

NO.4 Songlin Road, Economic and Technological Development Zone, Changde City, Hunan Province , P.R.C

Cospowers Changsha Branch

Building 13, Phase I, Zhongdian Software Park, 39 Jianshan Road, Yuelu District, Changsha City, Hunan Province

Dali Cospowers New Energy Technology Co., Ltd.

Phase II, Shangdeng Industrial Park, Jingkai District, Dali City, Yunnan Province, P.R.C

Anhui Cospowers New Energy Technology Co., Ltd.

NO. 19 Jing Road, South of Tiankang Avenue, Tianchang City, Anhui Province

BeiJing Cospowers New Energy Co., Ltd.

2nd floor, Suyuan Office Building, Beijing Friendship Hotel, No.1, Zhongguancun South Street, Haidian District, Beijing

Hongkong Cospower Technology Co., Ltd.

Flat A, 12/F, MW Tower II, 5 Kimberley Street, TST Kowloon, Hongkong, P.R.C

Lexel Battery (Shenzhen) Co., Ltd.

No.2, Guangtian Road, No.3 Industrial Zone, Luotian Community, Yanluo Street, Baoan District, Shenzhen, P.R.C

Cospowers Technology India Branch Office

10-2-99/1, No 304, Sterling Grand CVK, West Marredpally, Hyderabad -500026
Telangana, India, 500026

Cospowers New Energy LLC

Room 18, premises IV, 3 floor, building 6, house23, Bolshaya Novodmitrovskaya Street, Moscow, 127015, Russia

Cospowers Company Ltd.

909-15, Ganam-ro, Ganam-eup, Yeosu-si, Gyeonggi-do, Republic of Korea

Cospowers America Inc.

1438 martingale ct,san dimas,CA91773

Cospowers B.V.

Prins Hendrikkade 21 E, 1012TL Amsterdam, Netherland

COSPOWERS BATTERY

HANDBOOK OF HOUSEHOLD ENERGY STORAGE PRODUCTS





ABOUT COSPOWERS BATTERY MANUFACTURING

Dongying Cospower Technology Co., LTD. (hereinafter referred to as Cospower) was established in 2019, and is a national high-tech enterprise dedicated to the development of lithium energy storage industry. The R&D, production, Cospower has been deeply involved in the field of lithium energy storage, or more, in the past 20 years, mastering core technologies such as cell R&D, and manufacturing, system design, and development, system integration, and energy management, providing diversified products and solutions, or the global applications of new energy storage.

Cospower serves more than 60 countries and regions worldwide, and its products are used in various applications, scenarios such as power auxiliary services, renewable energy generation, industrial and commercial buildings, green energy-saving homes, data centers, 5G communication base stations, comprehensive parks, and so on. Among them, the energy storage business, or communication base stations, is highly valued, leading position in global shipments, or, long time.

Domestic and overseas branches & subsidiaries

17

One of the first-batch lithium-ion battery R&D and manufacturing enterprises in China

No.1

The energy storage industry applications began in 2008.

14Years

One of the first-batch lithium-ion battery manufacturing enterprises in China's new energy vehicle admission directory

No.1

Factory area

850000 m²

The market share in the field of communication energy storage ranks first in the world.

No.1

Annual production capacity

12GWh+

patented technology and soft

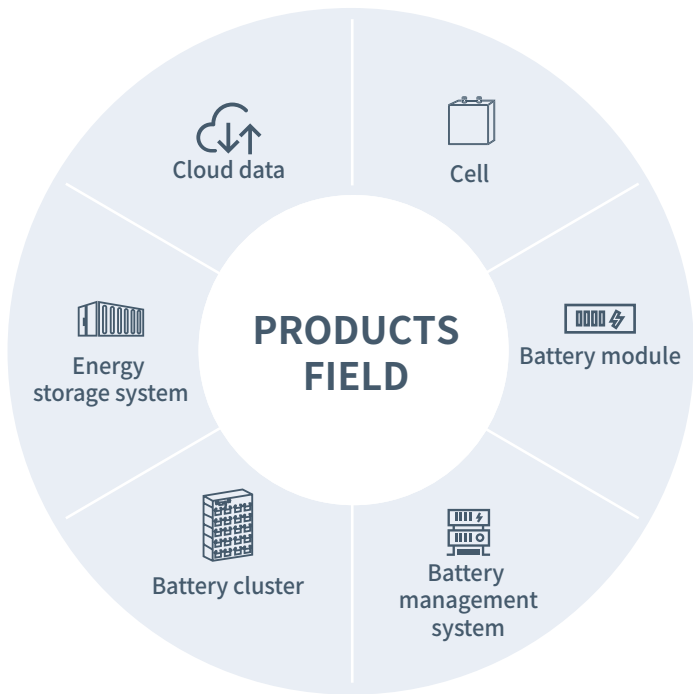
1500+

Global cumulative shipments exceed

10GWh

Standards formulated

10



GLOBAL LAYOUT

Cospower always adheres to the brand concept of openness, innovation and responsibility and has established a perfect global marketing network, service network, supply chain network and logistic network system. With branch offices in 17 countries and regions worldwide, it has nearly 20 regional service centers and spare parts warehouses, covering business operations in over 60 countries and regions worldwide, and maintaining a foreign sales and after-sales service team of 200 people. The cumulative shipment of energy storage lithium battery products has exceeded 10GWh, with a global cumulative shipment of 1.3 million units of communication energy storage, UPS backup power and high-voltage energy storage lithium battery systems.

17

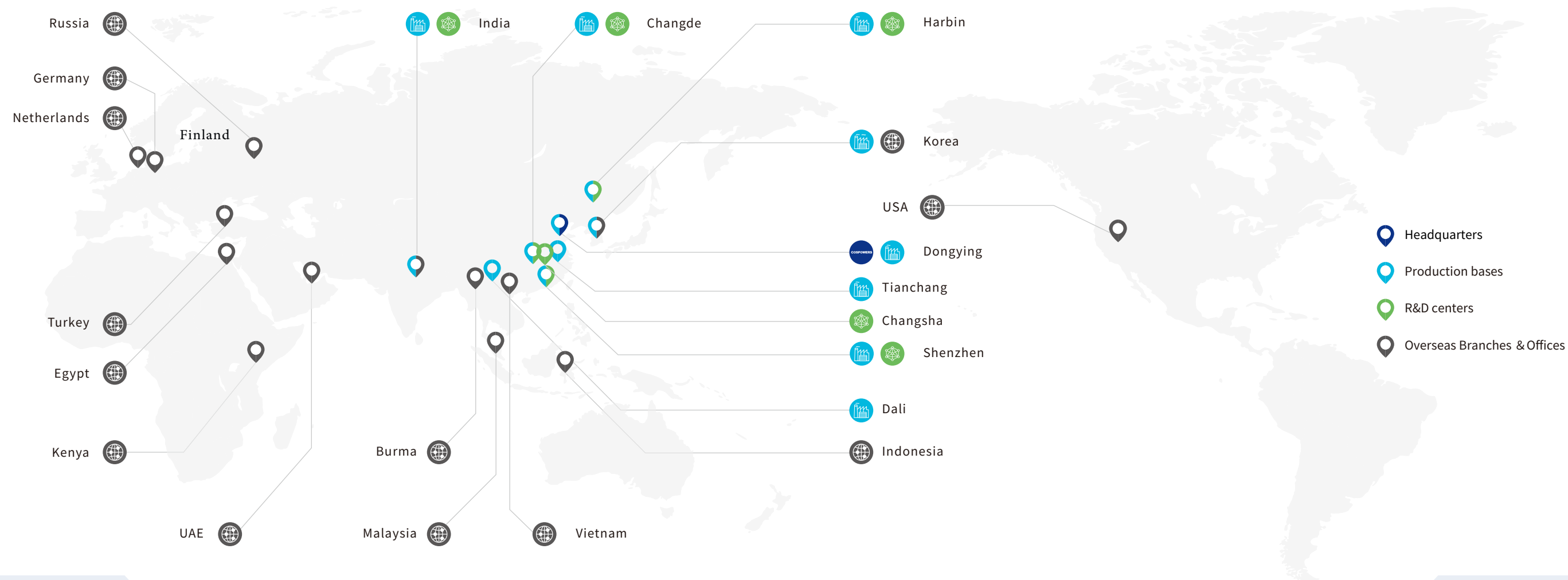
Oversea Branches&Subsidiaries

6

Manufacturing Bases

5

R&D Centers



DEVELOPMENT HISTORY

2000

One of the first-batch lithium-ion battery R&D and manufacturing enterprises in China

2012

No.1 market share in the lithium-ion energy storage for communication base station in the world

2007

One of the first-batch lithium-ion power battery R&D and manufacturing enterprises in China

2013

Shenzhen Cospower was established.

2019

Cospower was established. The subsidiaries in Harbin and Changde were also established successively.

2020

Dongying factory was put into operation; Deepening "new infrastructure", focusing on base stations and data centers, and staying ahead of the game.

2021

"Slip" series of cells were released, thin and narrow especially for energy storage; Changde cell factory was put into operation; The United Nations supply chain PV energy storage business was obtained, with energy storage system going out of border for the first time; Smart lithium-ion battery energy storage products were released; Awarded as the Enterprise Technology Center of Heilongjiang Province;

2022

Anhui subsidiary was established; The 100MWh+ energy storage system was successfully connected to the grid; Changsha Research Institute was established; The product of high energy liquid-cooled energy storage system was released, and the application of 80MWh system was realized.

2023

Dali factory was put into operation; The first phase of Anhui factory has been capped and meets the conditions for production line entry; The order of 720MWh energy storage system was won, with the amount of nearly 900 million yuan.

PRODUCT NAVIGATION

HOUSEHOLD ENERGY STORAGE PRODUCTS



CR5000-5



CW5000-5/10



CS5000-X-P



CE-5



CE-X-S



PCS

PORTABLE HOUSEHOLD ENERGY STORAGE PRODUCT SERIES



CP2500-E



CP330-E



CP500-E



CP1000-E



CP2000-E



Police series
CP2000-2

INDUSTRIAL AND COMMERCIAL ENERGY STORAGE PRODUCTS



Outdoor solar storage
integrated machine



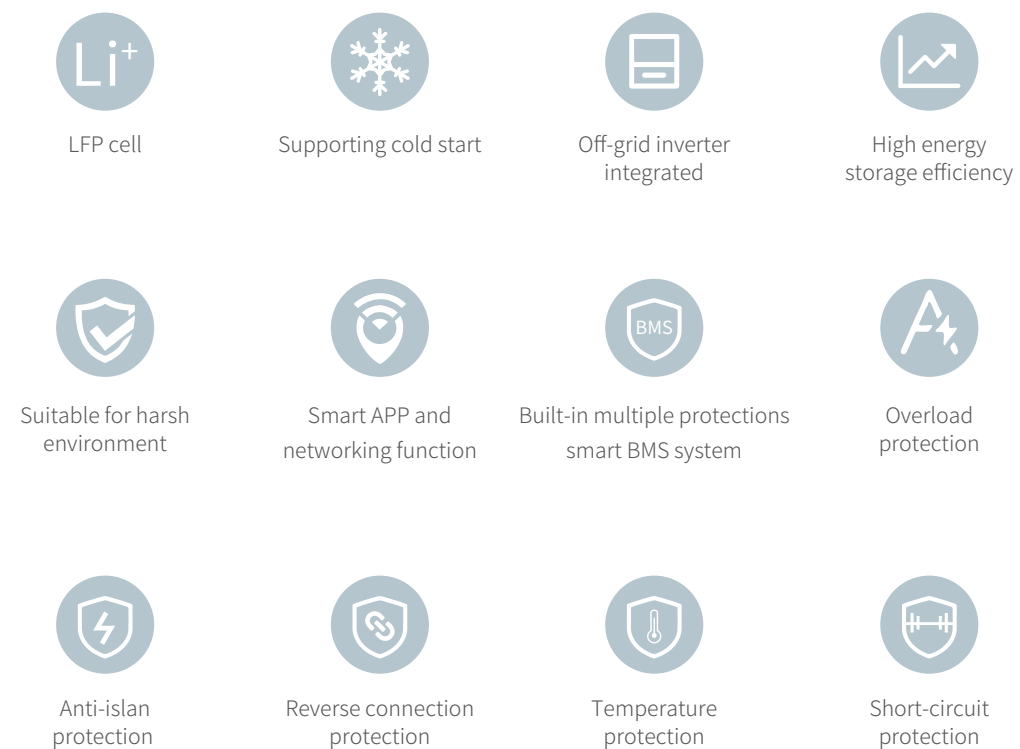
Air cooled integrated
machine



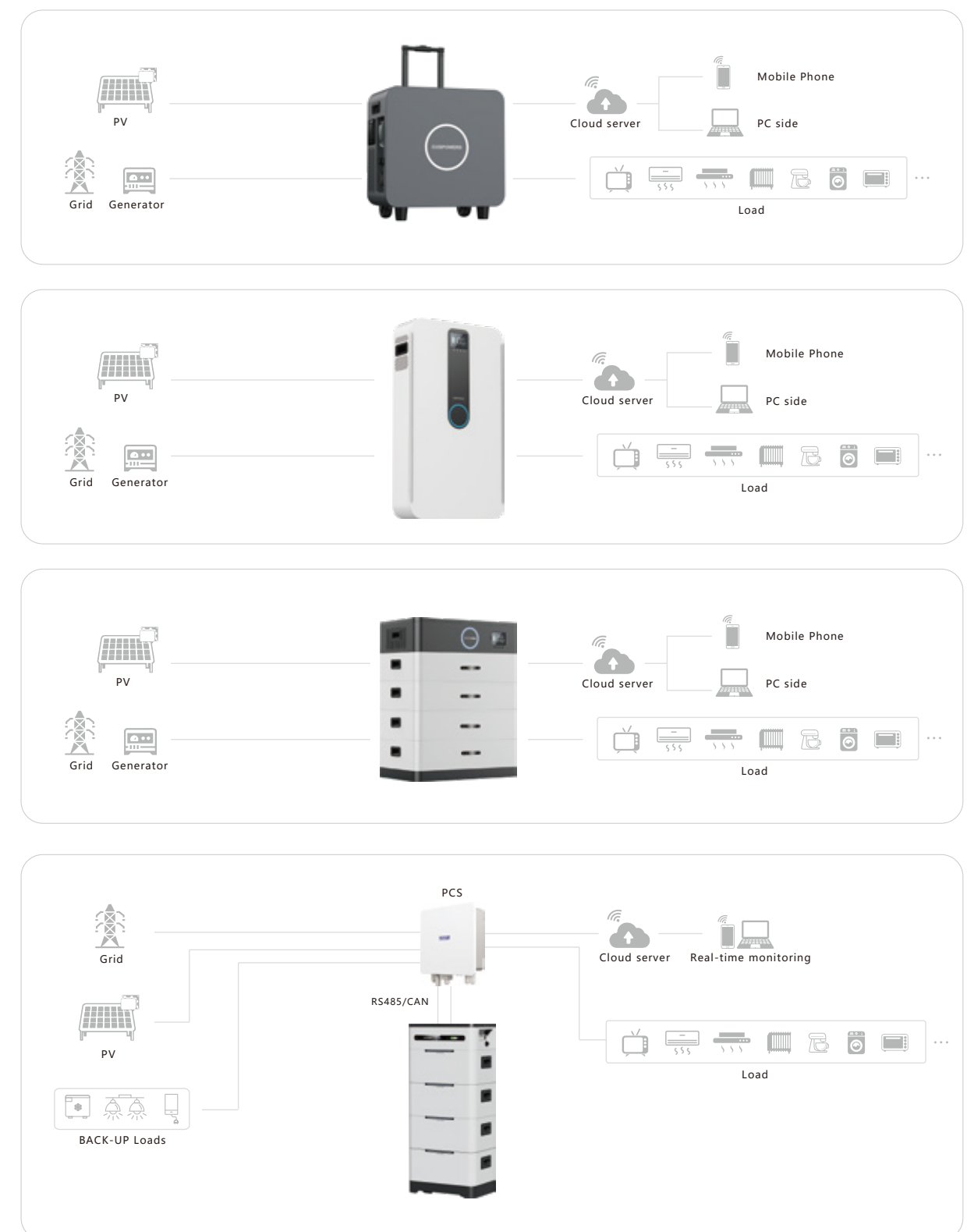
Liquid cooled Integrated
Machine

1 HOUSEHOLD ENERGY STORAGE PRODUCTS

[⚡] PRODUCT PERFORMANCE



[⚙️] WORKING PRINCIPLE



CR

PORTABLE ENERGY STORAGE POWER SOLUTIONS



CR5000-5 series of portable energy storage battery is a high-tech product with multiple application scenarios which was developed by Shenzhen Coslight with lithium battery modules, hybrid inverter and EMS integrated inside and can be connected with PV, Grid, and load to operate. The charge mode can be selected according to the application scenarios. It is configured with mains charge at home and solar power panel outdoor. The system supports multiple working modes. It is suitable for scenes of household emergency power backup (Power shortage, power failure and typhoons, earthquakes and other natural disasters), house repair, grass cutting, aerial photography power supply, outdoor small music party, self-driving travel, emergency rescue, construction site power supply, etc.

PRODUCT
FEATURE

- Extreme simple appearance design, elegant and beautiful
- Draw-bar box design, easy to move, plug and play, simple operation
- Multiple electrical protection, safe and reliable, adopting LFP cells, safe and stable
- Possess ISO/Android. App to monitor
- Built-in 5.12 KWh batteries, with long-term power supply
- Multiple functions of AC power source socket, with convenient usage
- Multiple power supply modes, green energy, supporting solar power charge and mains charge
- With multiple operating modes, it meets the requirements of different application scenarios

APPLICATIONS

- Emergency Backup power
- House repairs and mowing
- Portable charging and lighting
- Backup power for traveling and aerial photography
- Emergency rescue
- Construction site power supply



CR

PORTABLE ENERGY STORAGE POWER SOLUTIONS

PARAMETERS/ MODEL		CR5000-5
AC input parameters	AC input range	UPS grid mode:170V-280V ; APL generator mode:90V-280V
	AC input frequency	50/60Hz
	AC max charge current	60A(0~60A settable)
PV input parameters	Recommended PV max power	4400W
	Open-circuit voltage	145V
	MPPT Voltage Range	60V~115V
	Charge current	80A
Battery Parameters	Rated voltage	51.2V
	Voltage Range	45~57.6V
	Energy	5120Wh
	Max discharge rate	1C
	Max charge rate	1C
	Battery Type	LFP
AC output parameter	Rated Power	5000W
	Surge power	10000VA
	Output voltage	220/230/240Vac
	Output current	22A
	Rated Frequency	50/60Hz
	Voltage harmonic	<3%
	Output Waveform	Pure sine wave
	Output method	AC Socket×2
Working Conditions	Operating temperature range	0~55℃
	Storage temperature range	-15℃~60℃
	Humidity	5%~95%
	Cooling Method	Air cooling
	Weight	66kg
	Size	540*532*316mm
	IP Class	IP20
	Installation method	Portable type
	Communication port	RS485/WIFI (Optional)

CW

SINGLE PHASE HYBRID(OFF-GRID) ENERGY STORAGE SYSTEM



CW5000-X series of wall hanging energy storage all in one power supply is a high-tech product for multiple application scenarios which was developed by Shenzhen Coslight with lithium battery modules, off-grid inverter and BMS integrated inside and can be connected with PV, grid, and load to operate. The charge modes can be selected according to the different scenarios. The system has multiple working modes to choose, to meet the requirements of different application scenarios. It is suitable for scenes of household emergency power backup (power shortage, power failure, typhoon, earthquake and other natural disasters), peak and valley price arbitrage, self-generating self-use, etc., and has outstanding advantages in the application field of household energy storage.



PRODUCT
FEATURE

- Homely style, elegant and beautiful
- Single-phase European standard and single-phase American standard design, supporting multi-system grid voltage standards
- Multiple working modes (photovoltaic priority, mains priority, inverter priority)
- Built-in Max. 10.24KWh battery with long time power supply
- Simple installation and maintenance, the customized design meets the requirements of different customers
- Possess ISO/Android. App Monitoring
- Multiple protection and alarm system, safe and reliable



APPLICATIONS

- Self-generating ,self-use
- Power Consumption and Backup
- Fuel-electricity complementarity
- Peak load shifting



CW

SINGLE PHASE HYBRID(OFF-GRID) ENERGY STORAGE SYSTEM

PARAMETERS/ MODEL		CW5000-5	CW5000-10
AC input parameters	AC input range	UPS grid mode:170-280;APL generator mode:90-280	
	AC input frequency	50/60Hz (Automatic detection)	
	AC max charge current	60A	
PV input parameters	Recommended PV max power	4400W	
	Open-circuit voltage	145V	
	MPPT Voltage Range	60V~115V	
	Max Charge Current	80A	
Battery Parameters	Rated voltage	51.2V	
	Voltage Range	45~57.6V	
	Energy	5120Wh	10240Wh
	Max discharge rate	1C	
	Max charge rate	1C	
	Battery Type	LFP	
AC output parameter	Rated Power	5000W	
	Surge Power	10000W	
	Rated output voltage	220/230/240Vac	
	Rated frequency	50/60Hz	
	Output Waveform	Pure sine wave	
	Output method	Pluggable connector	
Working Conditions	Operating temperature range	0~55°C	
	Storage temperature range	-15°C~60°C	
	Humidity	5%~95%	
	Cooling Method	Air cooling	
	Weight	87kg	120kg
	Size	530*870*160mm	530*1370*160mm
	IP Class	IP20	IP20
	Installation method	Wall mounting type	Wall mounting type
	Communication port	RS485/WIFI (Optional)	RS485/WIFI (Optional)

CS-X-P

SINGLE PHASE HYBRID(OFF-GRID) ENERGY STORAGE SYSTEM



CS5000-X-P stack-based energy storage power supply is a high-tech product with multiple application scenarios which was developed by Shenzhen Coslight with battery modules, off-grid inverter and EMS unit integrated inside. The system has 4 levels of protection strategy and supports usage of 4 battery modules in parallel with stack-based installation and can connects with PV, grid, and load to work. The charge mode can be chosen according to the application scenarios and the installation and O&M have been simplified. It is suitable for the scenarios of household emergency power backup (power shortage, power failure, typhoons, earthquakes and other natural disasters), peak and valley price arbitrage, and self-generating and self-use, and has outstanding advantaged in the application filed of household energy storage.



PRODUCT
FEATURE

- Homely style, elegant and beautiful;
- Single-phase European standard and single-phase American standard design, supporting multi-system grid voltage standards;
- Multiple working modes (photovoltaic priority, mains priority, inverter priority);
- Simple installation and maintenance, the customized design meets the requirements of different customers;
- Possess ISO/Android. App to monitor
- Single battery 5.12kWh, expandable up to 20.48KWh;
- Multiple protection and alarm system, safe and reliable.



APPLICATIONS

- Self-generating ,self-use
- Power Consumption and Backup
- Fuel-electricity complementarity
- Peak load shifting



CS-X-P

SINGLE PHASE HYBRID(OFF-GRID) ENERGY STORAGE SYSTEM

PARAMETERS/ MODEL		CS5000-5-P	CS5000-10-P	CS5000-15-P	CS5000-20-P
Grid Input Parameters	Grid max charge current	60A			
	Rated input voltage	220V/230V/240V			
	Input Voltage Range	UPS grid mode170V-280V;APL generator mode90V-280V			
	Frequency	50/60Hz(Automatic detection)			
	Conversion time (bypass and inverter)	10ms (Typical value)			
	Maximum bypass overload current	40A			
Solar Energy Input Parameters	PV Open-circuit voltage	145V			
	PV Operating voltage range	60~145V			
	MPPT voltage range	60~115V			
	Max PV input current	50A			
	Max input power	4400W			
	PV Max charge current	80A			
AC Output Parameters	Output voltage waveform	Pure sine wave			
	Output voltage	230A (220/240A)			
	Rated output power	5000W/VA			
	Output frequency range	50/60Hz±0.3Hz			
Battery Parameters	Rated voltage	51.2V			
	Voltage Range	45-57.6V			
	Energy	5.12kWh	10.24kWh	15.36kWh	20.48kWh
	Max discharge rate	1C			
	Max charge rate	1C			
	Battery Type	LFP			
Working Conditions	Operating temperature range	0~45℃			
	Storage temperature range	-15℃~60℃			
	Humidity	5%~95%			
	Cooling Method	Air cooling			
	Weight	87Kg	137Kg	187Kg	237Kg
	Size	650*440*345mm	650*440*485mm	650*440*625mm	650*440*765mm
	IP Class	IP20			
	Installation method	Can be placed on the floor			
	Communication port	RS485/WIFI (Optional)			

CE-5

LOW VOLTAGE WALL HANGING TYPE-ENERGY STORAGE BATTERY



CE-5 wall hanging energy storage power supply is a high-tech product with multiple application scenarios which was developed by Shenzhen Coslight. The battery has small size, light weight with long cycle life and supports rapid charging. It adopts advanced intelligent power supply with protection functions of over charge, over discharge, over current, and temperature and has outstanding advantages in the application field of household energy storage.



PRODUCT FEATURE

- Extreme simple appearance design, elegant and beautiful
- Protection class IP40
- It supports multiple battery modules in parallel, up to 8 modules
- Easy installation and maintenance, customized design to meet the requirements of different customers
- Multiple protection and alarm system, safe and reliable



APPLICATIONS

- Power Consumption and Backup
- Grid peak and valley electricity price arbitrage
- Get subsidy from grid dispatching



CE-5

LOW VOLTAGE WALL HANGING TYPE-ENERGY STORAGE BATTERY

PARAMETERS/ MODEL		CE-5
Battery Parameters	Rated voltage	51.2V
	Voltage range	45~57.6V
	Energy	5120Wh
	Max charge rate	1C
	Battery Type	LFP
Working Conditions	Operating temperature range	0~45°C
	Storage temperature range	-15°C~60°C
	Humidity	5%~95%
	Cooling Method	Natural cooling
	Weight	46kg
	Size	430*186*600mm
	IP Class	IP20
	Installation method	Wall mounting type
Others	Communication port	RS485/WIFI (Optional)
	Integrated Inverters	Pylon, Growatt, SRNE Solar, Goodwe, Ginlong, Pengcheng, Riyueyuan, Victron, Sorotek, Schneider, SMA, Meishile, TBB, Studer

CE-X-S

HIGH VOLTAGE ENERGY STORAGE BATTERY SYSTEM



CE-X-S series of high voltage stack-based energy storage battery is a high-tech product with multiple application scenarios which was developed by Shenzhen Coslight with battery modules, HVC box and BMS unit integrated inside. The system has 4 levels of protection strategy and supports usage of 2-6 battery modules in parallel. With stack-based installation method, the installation and O&M are simplified. It is suitable for the scenarios of household emergency power backup (power shortage, power failure, typhoons, earthquakes and other natural disasters), peak and valley price arbitrage, and self-generating and self-use, and grid dispatching subsidy, etc.



PRODUCT
FEATURE

- Homely style, elegant and beautiful
- With high voltage stack-based design, the backup energy can be expanded flexibly
- Multiple electrical protections, safe and reliable
- Adopting LFP cells, safe and stable
- Single battery 5.12kWh, it can be expanded to 30.72KWh








APPLICATIONS

- Self-generating ,self-use
- Power Consumption and Backup
- Smart home energy management
- Grid peak and valley electricity price arbitrage
- Get subsidy from grid dispatching



CE-X-S

HIGH VOLTAGE ENERGY STORAGE BATTERY SYSTEM

PARAMETERS/ MODEL		CE-10-S	CE-15-S	CE-20-S	CE-25-S	CE-30-S
Electrical Parameters	System structure					
	Capacity	10.24kWh	15.36kWh	20.48kWh	25.6kWh	30.72kWh
	Number of batteries in series	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs
	Rated voltage	204.8V	307.2V	409.6V	512V	614.4V
	Voltage range	179.2~227.2V	268.8~340.8V	358.4~454.4V	448~568V	537.6~681.6V
	Rated capacity	50Ah				
	Continuous Charge Current	12.5A(Recommend)/25A(Max)				
	Continuous Discharge Current	25A(Recommend)/50A(Max))				
	Communication Port	RS485/WIFI (Optional)				
	Protection functions	Over voltage, under voltage, over temperature, low temperature, over current, short circuit				
	Size	550*370*737mm	550*370*973mm	550*370*1209mm	550*370*1445mm	550*370*1681mm
	Weight	119Kg	169Kg	220Kg	270Kg	321Kg
	IP Class	IP20				
Working Conditions	Installation condition	Indoor installation				
	Installation method	Can be placed on the floor				
	Operating Temperature Range	-10°C~55°C				
	Optimum Operating Temperature Range	20°C~30°C				
	Storage Temperature	-30°C~60°C				
	Operating Humidity	5%~95%				
	Altitude requirements	≤2000m				
Others	Cooling Method	Natural cooling				
	Matched Inverter	Pylon, Growatt, Goodwe, Megarevo, Victron, New Electric, Shangweisi, Ateess. Gilong				

HOUSEHOLD PHOTOVOLTAIC ENERGY STORAGE INTEGRATED INVERTER

SINGLE/THREE-PHASE HYBRID INVERTER



Household photovoltaic energy storage integrated inverter, supports on and off-grid mode, a variety of working modes, effectively uses solar energy, increases self-use and grid independence, and reduce electricity costs.



PRODUCT FEATURE

- High reliability, fan-less design, low noise, silicon carbide technology, longer life, three RS485 interfaces, more stable operation, and IP65 outdoor design.
- High compatibility, 15 parallel expansion, supporting AC coupling, plugging and pulling design, easy installation, 2 battery branches, and independent management.
- Intelligent monitoring, cloud + intelligent data analysis, automatic sleep, and VPP.
- Strong load adaptability, main load UPS function, 10ms fast on and off-grid mode switching, independent load control circuit, and 100% three-phase imbalance.



APPLICATIONS

- Power Consumption and Backup
- Grid peak and valley electricity price arbitrage
- Get subsidy from grid dispatching



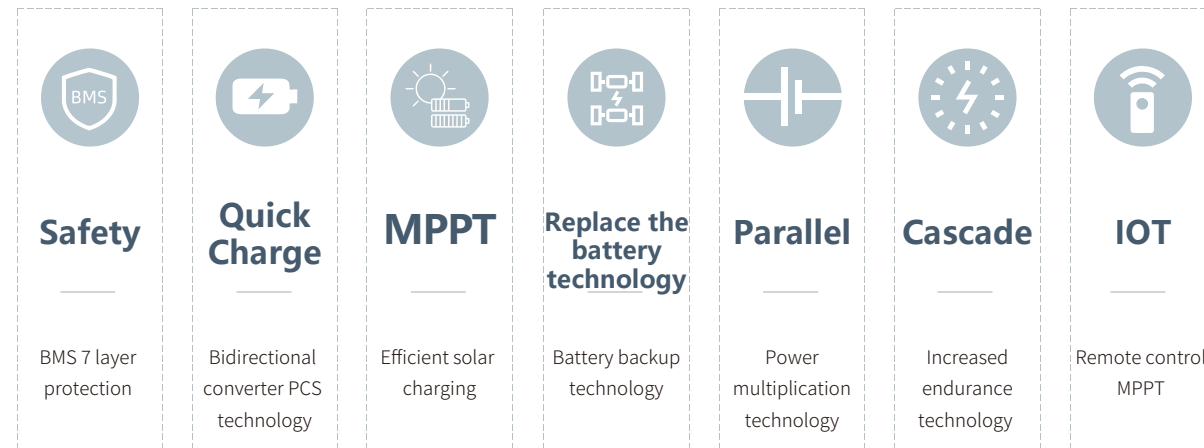
HOUSEHOLD PHOTOVOLTAIC ENERGY STORAGE INTEGRATED INVERTER

SINGLE/THREE-PHASE HYBRID INVERTER

PARAMETERS/ MODEL		SINGLE PHASE			THREE PHASE			
Off grid parameters	Model	3000S	3600S	5000S	10000T	12000T	15000T	20000T
	Rated output power	3000W	3600W	5000w	10kw	12kw	15kw	20kw
	Rated voltage	220V/230V/240V			3/N/PE,220/380Vac,230/400Vac			
	Rated frequency	50/60Hz						
	Rated output current	13.6A	16.4A	22.7A	15A	18A	22.5A	30A
	Output THDu	<20%			<3%			
On-grid parameters	Rated output power	3500W	3600W	6000W	10kW	12kW	15kW	20kW
	Max output current	13.6A	16.4A	22.7A	16A	20A	24A	32A
	Rated on grid voltage	220V/230V/240V			3/N/PE,220/380V,230/400V,240/415V			
	Max gird input current	16.4A	22.7A	27.2A	30A	35A	44A	60A
	Grid voltage range	184-264V			184-276V			
PV output	Max input power	4500Wp	6000Wp	8000Wp	15000Wp	18000Wp	22500Wp	30000Wp
	Start voltage	95V			220V			
	Max input voltage	600V			1000V			
	MPPT voltage operating range	80-550V			180-960V			
	Full load MPPT voltage range	350-550V			250-850V	290-850V	350-850V	450-850V
	MPPT quantity	2			2			
	Maximum MPPT input group transmission per channel	1			2			
	Rated input voltage	360V			600V			
	Max input current	13A/13A			25A/25A			
	Battery type	Lithium battery			Lithium battery			
Battery parameters	Rated voltage	48V			Configuration according to actual working conditions			
	Battery voltage range	42-60V			180-800v			
	Max continuous charge discharge current	75A	85A	100A	25A/25A			
	Max efficiency	97.5%	97.5%	98%	98.20%			
	European efficiency	97.2%	97.2%	97.5%	97.70%			
Efficiency	Max battery charge discharge efficiency	95.2%			97.80%			
	Size (W*D*H)	500*470*180mm			573*509*219mm			
	Weight	21Kg			35Kg			
Common parameters	Noise	<25dB(A)			<45dB(A)			
	Operating temperature	-25°C~+60°C			-25°C~+60°C			
	Cooling method	Natural cooling			Forced air cooling			
	Protection level	IP65			IP65			
	Man-machine interaction mode	H5/LED/APP/WIFI/4G/blue tooth						
	Communication interface	RS485/CAN/DRED/DO/Parallel port						
	Protection	DC switch; DC insulation testing; Residual current detection; Anti-island protection; Overvoltage a d overload prote tio ; AC short ir uit prote tio ; Overvoltage level: AC side III; battery a d V; II; Surge protection; Lightning protection; TYPE II; I put reverse plug prote tio (I & Battery)			Dc switch; Over-voltage and over-current protection; Ac short circuit protection; Anti-island protection; Residual voltage detection; PV insulation Impedance detection; Surge protection: Class II; Lightning protection; Input reverse plug protection (PV& Battery)			
	safety certification	IEC62109-1,IEC62109-2,EN62109-1,EN62109-2						
	EMC certification	EN61000-6-1,EN61000-6-2,EN61000-6-3,EN61000-6-4						
	Grid-connected certification	VDE-AR-N4105,G98,G99,CEI0-21,EN50549,NRS097-2-1,AS4777.2,R25						

2 PORTABLE HOUSEHOLD ENERGY STORAGE PRODUCT SERIES

[⚡] PRODUCT PERFORMANCE



SYSTEM CERTIFICATION

The company passed ISO9001、ISO14001、CQC、UL、FCC、CE、UN、MSDS、PSE、QI, implementing system refined management of ERP system.



APPLICATION SCENARIOS



CPseries

PORTABLE ENERGY STORAGE POWER SUPPLY



MODEL		PARAMETERS	
01	Basic parameters	Capacity	2560Wh
02		Net weight	32kg
03		Size (L*W*H)	514*258*357(mm)
04		App	Wi-Fi
05	Output	AC output	10A five-hole socket*2; 16A three-hole socket*1; 3600W (rated power)
06			3960W < P≤4680W, It locks up after 30s
07			4680W < P≤600W, It locks up after 2 seconds
08			P > 7200W, It locks up after 200ms
09		USB-A	1 channel output, 5V/2.4A constant voltage, max power 12W/ channel
10		USB-A fast charge	1 channel output, 5V/2.4A, 9V/2A, 12V/1.5A(constant voltage), max power18W/channel
11		USB-C	2 channels output, 5/9/12/15/20V--5A(constant voltage), max power 100W/channel, supporting PD3.0
12		Car charge output	12V/10A, max power 120W
13		DC5521Output	12V/3A 2 channels, max power 36W/channel
14		Wireless charge	Available, 15W
15		Anderson port	Available, 12V/30A
16	Input	AC Input Power	2200W
17		AC Input Voltage	AC220 10A 50Hz
18		Solar Charge Input	800W
19		Vehicle charger Input	Support 12/24V battery
20	Battery	Cell	LFP/semi-solid battery
21		Life cycles	After 3500 cycles, the remaining capacity is still more than 80%
22		Protection type	High temperature protection, low temperature protection, over discharge protection, over charge protection, overload protection, short circuit protection,
23	Temperature	Discharge Temperature	-20°C~45°C
24		Charge Temperature	0°C~45°C
25		Storage Temperature	0°C~45°C
26	Others	Li-ion battery with power pack	Available
27		Torch	Outdoor lighting and emergency calls
28		Storage box	Data cable set
29		Active extinguishing Device	Avaiable

CPseries

PORTABLE ENERGY STORAGE POWER SUPPLY



MODEL	CP330-E	CP500-E	CP1000-E	CP2000-E
01 Rated power	330W	500W	1000W	2200W
02 Rated energy	288.6Wh	519Wh	799.2Wh	2150Wh
03 Standard capacity	3.7V/78000mAh	3.7V/140400mAh	3.7V/216000mAh	3.2V/672000mAh
04 Overload protection	360±20W	550±40W	1100±80W	2200±100W
05 AC output	110V±10%/60HZ	110V±10%/60HZ	110V±10%/60HZ	110V/60HZ pr 220V/50HZ
06 Output wave form	Pure sine wave	Pure sine wave	Pure sine wave	Pure sine wave
07 USB Output	QC3.0/18W	QC3.0/18W	QC3.0/18W	QC3.0/18W
08 Type-C Output	PD60W	PD60W	PD60W	PD60W
09 DC55*2.5 cigarette lighting port output	12V/10A	14V/8A	14V/8A	14V/8A
10 Wireless charge	5W	10W	10W	Supporting, free matching of battery pack
11 Charge input voltage	12-24V	12-26V	12-26V	Mains power (100-240V) directly charges the product
12 Operating temperature	-10-40°C	-10-40°C	-10-40°C	-10-40°C
13 Weight(net weight)	≈ 3.3kg	≈ 6.8kg	≈7.5kg	≈31kg
14 Size	205*155*165mm	290*194*200mm	290*194*200mm	460*366*260mm
15 AC output support	US/JA, EUROPE, AU, CN			

POLICE series

PORTABLE ENERGY STORAGE POWER SUPPLY



MODEL	CP2000-2
01 Rated power	2000W
02 Rated energy	2264.4Wh
03 Standard capacity	3.7V/612000mAh
04 Overload protection	2100±80W
05 AC output	220V±10%/50HZ
06 Output wave form	Pure sine wave
07 USB Output	QC3.0/18W
08 DC55*2.5 cigarette lighting port output	14V/8A
09 Charge input voltage	12-26V
10 Operating temperature	-10-40°C
11 Weight(net weight)	≈17.5kg
12 Weight(includes accessories)	≈18.5kg
13 Size	418*333*193mm

INDUSTRIAL AND COMMERCIAL ENERGY STORAGE



Product series

- Outdoor solar storage integrated machine
- Air cooled integrated machine
- Liquid cooled Integrated Machine
- Industrial and commercial energy storage

ESS-30kW/207kWh-NA ESS-60kW/207kWh-NA

AIR-COOLING LITHIUM
BATTEY ENERGY STORAGE
SYSTEM CABINET



flexible expansion, one machine
multi-effect matching a variety
of application scenarios



Multiple Protection
Systems



highly integrated
design AC and DC
integrated



fingertip monitoring
cloud maintenance

PARAMETERS/ MODEL		30kW/207kWh	60kW/207kWh
DC side parameter	Rated power	45kW	90kW
	Input Voltage Range	700~830V	700~830V
	Maximum Input Current	32.5*2A	32.5*2A
AC grid connection parameter	Rated output power	30kW	60kW
	Maximum apparent power	33kVA	66kVA
	Maximum active power	33kW	66kW
	Rated grid voltage	3P3W+PE,480(±15%)V	3P3W+PE,480(±15%)V
	Rated frequency	60(±2.5)HZ	60(±2.5)HZ
	Current harmonic	<3%	<3%
AC off-grid parameter	Rated output power	30kW	60kW
	Maximum apparent power	33kVA	66kVA
	Maximum active power	33kW	66kW
	Rated grid voltage	3P3W+PE, 480 (±5% configurable) Vac	3P3W+PE, 480 (±5% configurable) Vac
	Rated frequency	60 (±5 configurable) Hz	60 (±5 configurable) Hz
Battery parameters	Battery Type	LFP	LFP
	Rated capacity	207kWh	207kWh
	Nominal voltage	691.2V	691.2V
	Operating voltage range	604.8~750V	604.8~750V
System parameters	HMI	8 inch LCD touch screen	8 inch LCD touch screen
	Fire protection system	Perfluorhexone fire protection	Perfluorhexone fire protection
	Cooling Method	Air cooling	Air cooling
	Operating temperature	0°C~55°C	0°C~55°C
	IP Class	IP54	IP54
	Size	1600*1100*2200mm	1600*1100*2200mm
	Weight	<2500Kg	<2600Kg
	Certification	UL1973, UL9540A, IEC62619, UL1741, FCC	

50kW/102kWh

OUTDOOR HYBRID SOLAR
ENERGY STORAGE
SYSTEM



flexible expansion, one machine
multi-effect matching a variety
of application scenarios



safe and reliable
1+1 redundancy
design dual fire design



highly integrated
design AC and DC
integrated



fingertip monitoring
cloud maintenance

PARAMETERS/ MODEL		50kW/102kWh
PV Input Parameters	Maximum Input Voltage	1000Vdc
	MPPT voltage range	300~750Vdc
	Rated power	75kW
	MPPT quantity	3
AC grid connection parameter	Maximum input apparent power	55kVA
	Maximum input active power	50kW
	Rated input voltage	220/400V, 3/N/PE
	Maximum continuous input current	72A
	Rated input frequency	50/60Hz
AC off-grid parameter	AC off-grid voltage	220/400V, 3/N/PE
	Maximum continuous output current	72A
	AC off-grid frequency	50/60Hz
Battery parameters	Battery Type	LFP
	Rated capacity	102kWh
	Nominal voltage	512V
	Operating voltage range	448~560V
	Charge/Discharge Rate	≤0.5C
	Battery string	2 channel
	Maximum charging current	50A*2
System parameters	HMI	8 inch LCD touch screen
	Fire protection system	Perfluorhexone fire protection
	Cooling Method	Air cooling
	Operating temperature	0°C~55°C
	IP Class	IP54
	Size	<1300*800*2000mm
	Weight	<1500Kg

50kW/103kWh、100kW/224kWh

AIR-COOLING LITHIUM
BATTEY ENERGY STORAGE
SYSTEM CABINET



flexible expansion, one machine
multi-effect matching a variety
of application scenarios



Multiple Protection
Systems



highly integrated
design AC and DC
integrated



fingertip monitoring
cloud maintenance

PARAMETERS/ MODEL		50kW/103kWh	100kW/224kWh
DC side parameter	DC branch	1 channel	1 channel
	DC busbar maximum voltage	1000V	1000V
	DC side maximum current	88A	165A
	DC voltage operating range	200~900V	650~1000V
AC grid connection parameter	Maximum input apparent power	50kVA	100kVA
	Maximum input active power	50kW	100kW
	Rated input voltage	220/380V, 3P4W+PE	220/380V, 3P4W+PE
	Maximum continuous input current	86A	152A
	Rated input frequency	50Hz	50Hz
AC off-grid parameter	AC off-grid voltage	220/380V, 3P4W+PE	220/380V, 3P4W+PE
	Maximum continuous output current	86A	152A
	AC off-grid frequency	50Hz	50Hz
Battery parameters	Battery Type	LFP	LFP
	Rated capacity	103kWh	224kWh
	Nominal voltage	345.6V	748.8V
	Operating voltage range	302~378V	655~819V
	Charge/Discharge Rate	≤0.5C	≤0.5C
System parameters	HMI	8 inch LCD touch screen	8 inch LCD touch screen
	Fire protection system	Perfluorhexone fire protection	Perfluorhexone fire protection
	Cooling Method	Air cooling	Air cooling
	Operating temperature	0°C~55°C	0°C~55°C
	IP Class	IP54	IP54
	Size	<1200*1100*1850mm	<1600*1100*2200mm
	Weight	<1200Kg	<2500Kg
	Certificates	CANS,CMA	

100kW/232kWh、 100kW/215kWh

LIGUID-COOLING LITHIUM
BATTER ENERGY STORAGE
SYSTEM CABINET



flexible expansion, one machine
multi-effect matching a variety
of application scenarios



Multiple Protection
Systems



highly integrated
design AC and DC
integrated



fingertip monitoring
cloud maintenance

PARAMETERS/ MODEL		100kW/232kWh - CN	100kW/215kWh - OS
DC side parameter	DC branch	1 channel	1 channel
	DC busbar maximum voltage	950V	950V
	DC side maximum current	165A	165A
	DC voltage operating range	650~950V	650~950V
AC grid connection parameter	Maximum input apparent power	110kVA	110kVA
	Maximum input active power	100kW	100kW
	Rated input voltage	220/380V, 3P4W+PE	220/380V, 3P4W+PE
	Maximum continuous input current	152A	152A
AC off-grid parameter	Rated input frequency	50Hz	50Hz
	AC off-grid voltage	220/380, 3P4W+PE	220/380, 3P4W+PE
	Maximum continuous output current	152A	152A
	AC off-grid frequency	50Hz	50Hz
Battery parameters	Battery Type	LFP	LFP
	Rated capacity	232kWh	215kWh
	Nominal voltage	832V	768V
	Operating voltage range	728~910V	672~840V
System parameters	Charge/Discharge Rate	≤0.5C	≤0.5C
	HMI	8 inch LCD touch screen	8 inch LCD touch screen
	Fire protection system	Perfluorhexone fire protection	Perfluorhexone fire protection
	Cooling Method	Liquid cooling	Liquid cooling
	Operating temperature	0°C~55°C	0°C~55°C
	IP Class	IP54	IP54
	Size	<1100*1400*2350mm	<1100*1400*2350mm
	Weight	<2800kg	<2800kg
	Certification	/	UL1973,UL9540A,IEC62619

200kW/372kWh、 200kW/417kWh

LIGUID-COOLING LITHIUM
BATTER ENERGY STORAGE
SYSTEM CABINET



flexible expansion, one machine
multi-effect matching a variety
of application scenarios



Multiple Protection
Systems



highly integrated
design AC and DC
integrated



fingertip monitoring
cloud maintenance

PARAMETERS/ MODEL		200kW/372kWh	200kW/417kWh
DC side parameter	DC branch	1 channel	1 channel
	DC busbar maximum voltage	1500V	1500V
	DC side maximum current	189A	189A
	DC voltage operating range	1060~1500V	1060~1500V
AC Side Parameters	Maximum input apparent power	220kVA	220kVA
	Maximum input active power	200kW	200kW
	Maximum continuous output current	690V	690V
	Maximum continuous input current	184A	184A
Battery parameters	Rated input frequency	50/60Hz	50/60Hz
	Battery Type	LFP	LFP
	Rated capacity	372kWh	417kWh
	Nominal voltage	1331.2V	1331.2V
	Operating voltage range	1164.8~1456V	1164.8~1456V
System parameters	Charge/Discharge Rate	≤0.5C	≤0.5C
	HMI	8 inch LCD touch screen	8 inch LCD touch screen
	Fire protection system	Perfluorhexone fire protection	Perfluorhexone fire protection
	Cooling Method	Liquid cooling	Liquid cooling
	Operating temperature	0°C~55°C	0°C~55°C
	IP Class	IP54	IP54
	Size	<1400*1400*2350mm	<1400*1400*2350mm
	Weight	<3500Kg	<3600Kg