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COSPOWERS

**HANDBOOK OF
HOUSEHOLD ENERGY STORAGE
PRODUCTS**

Cospowers Technology Co., Ltd.



ABOUT COSPOWERS

Cospowers Technology Co., Ltd. is a high-tech enterprise specializing in the field of new energy storage. With a technical team boasting over 30 years of deep expertise in the energy storage battery industry, the company possesses comprehensive capabilities in R&D, manufacturing, sales, and service across materials, cells, battery management systems, energy management systems, and system integration. It has provided diversified products and systematic solutions for more than 70 countries and regions worldwide in sectors such as utility-scale energy storage, commercial and industrial energy storage, data center energy storage, telecommunications energy storage, residential energy storage, sodium-ion battery energy storage, and consumer batteries.

23GWh+

Global Cumulative Shipments

Tier1

BloombergNEF Energy Storage Manufacturer

860K m²

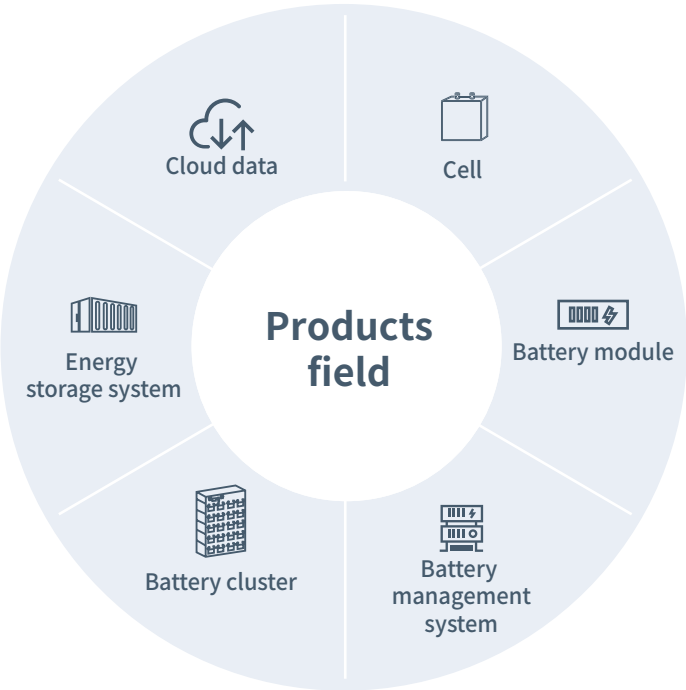
Factory area

530+

Patents and Software Copyrights

30+

Participation in Standard Formulation



GLOBAL LAYOUT

COSPOWERS has in-depth expertise in power and energy storage systems, has witnessed and chronicled the evolution of lithium-ion energy storage, and is driving the advancement of the industry.

70+

Service Coverage

29

Domestic and overseas subsidiaries and service outlets

3

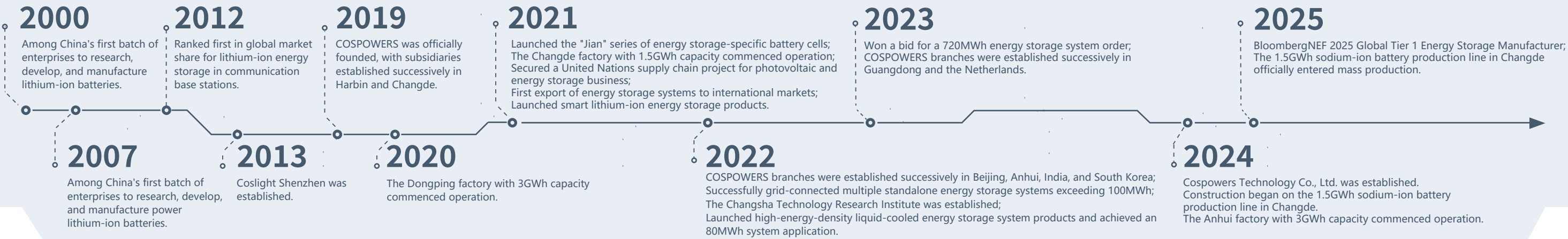
Production Base

4

R&D Centers



DEVELOPMENT HISTORY



Lithium-ion Cell



50Ah

Product Model	FP20106300A
Rated Capacity	50Ah
Nominal Voltage	3.2V
Voltage Range	2.5~3.65V
Maximum Charge/Discharge Rate	1C/3C

Product Certification



100Ah

Product Model	FP26122341A
Rated Capacity	100Ah
Nominal Voltage	3.2V
Voltage Range	2.5~3.65V
Maximum Charge/Discharge Rate	1C/3C

Product Certification



314Ah

Product Model	FP71173207A
Rated Capacity	314Ah
Nominal Voltage	3.2V
Voltage Range	2.5~3.65V
Maximum Charge/Discharge Rate	0.5P

Product Certification



Product performance



LFP cell



Supporting cold start



Off-grid inverter integrated



High energy storage efficiency



Suitable for harsh environment



Smart APP networking function



Built-in multiple protections smart BMS system



Overload protection



Anti-island protection



Reverse connection protection



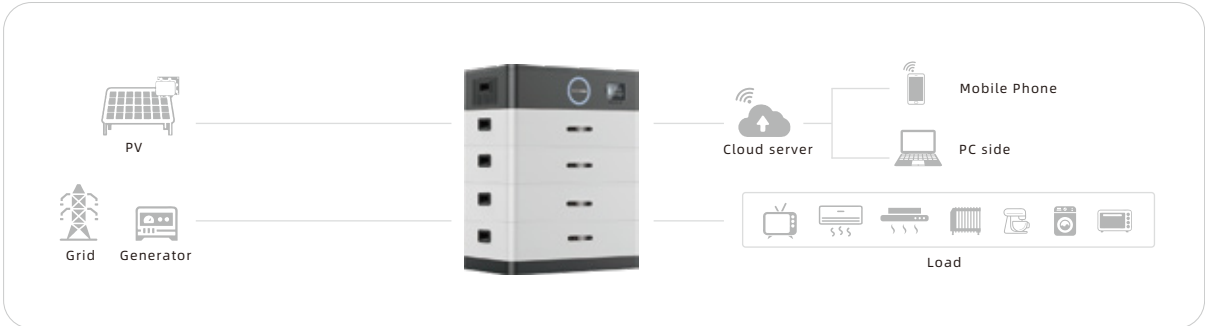
Temperature protection



Short-circuit protection



Working principle

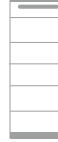


High-voltage Stacked Energy Storage Battery

PowerTile-CE-X-S



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

Parameters/ Model		CE-10-S	CE-15-S	CE-20-S	CE-25-S	CE-30-S
Electrical Parameters	System Architecture					
	Stack Capacity	10.24kWh	15.36kWh	20.48kWh	25.6kWh	30.72kWh
	Number of Cells in Series	2 pcs	3 pcs	4 pcs	5 pcs	6 pcs
	Rated Voltage	204.8V	307.2V	409.6V	512V	614.4V
Operating Conditions	Voltage Range	179.2~227.2V	268.8~340.8V	358.4~454.4V	448~568V	537.6~681.6V
	Rated Capacity	50Ah				
	Continuous Charging Current	12.5A (Recommended) / 25A (Maximum)				
	Continuous Discharging Current	25A (Recommended) / 50A (Maximum)				
	Communication Interface	RS485/CAN				
	Protection Functions	Over-voltage, Under-voltage, Over-temperature, Low-temperature, Over-current, Short-circuit				
	Dimensions (W*D*H)	550*370*740mm	550*370*973mm	550*370*1209mm	550*370*1445mm	550*370*1681mm
	Weight	126Kg	180Kg	233Kg	287Kg	340Kg
	IP Rating	IP20/IP54				
	Installation Requirements	Indoor installation / Outdoor installation				
	Operating Temperature Range	-10°C to 55°C (Optimal: 20°C to 30°C)				
	Storage Temperature	-30~60°C				
	Operating Humidity	5~95%				
	Altitude Requirement	≤2000m				
	Cooling Method	Natural Cooling				
Other Parameters	Compatible Inverter	Pylontech, Growatt, Goodwe, Megarevo, Victron, Sunways, SunWize, ATESS, Ginlong				
	Certifications	UL1973, UL9540A, IEC62619, FCC, CE-EMC				

Low voltage stack-based energy storage power supply

PowerTile-CE-X-P



- 1

Homely style, elegant and beautiful
- 2

Can be matched with a variety of mainstream inverters
- 3

Simple installation and maintenance, the customized design meets the requirements of different customers
- 4

Single battery 5.12kWh, expandable up to 20.48kWh
- 5

Multiple protection and alarm system, safe and reliable

Parameters/ Model	CE-5-P	CE-10-P	CE-15-P	CE-20-P
System Architecture				
System Power	5kWh	10kWh	15kWh	20kWh
Stacking Quantity	1P	2P	3P	4P
Rated Charge Current	50A	100A	150A	200A
Max. Discharge Current	100A	150A	200A	200A
Weight	70kg	120kg	170kg	220kg
Dimensions (L*W*H)	675*440*275mm	675*440*415mm	675*440*555mm	675*440*695mm
Rated Voltage	51.2V			
Charging Voltage	57.6V			
Min. Discharge Voltage	46.4V			
Self Discharge Rate	<3% Per Month			
Max. Stacking Quantity	Stacking of 4 modules			
Internal Resistance	≤40mΩ @ 50% SOC 1KHz			
Charge Working Temperature	5~45℃			
Discharge Working Temperature	-15~60℃			
Storage Temperature	10~40℃			
Cycle Period	≥3000 cycles @25 °C 0.5C/0.5C			
Protection Grade	IP20			
Authentication	IEC62619、UL1973、UL9540A			
Cooling Method	Natural Cooling			
Inverter Matching	Pylontech, Growatt, Solis, Goodwe, Ginlong, Prowatt, Sinoyaz, Victron, SuoRuid, Schneider, SMA,Maruson, Topbatt, STUDER			

Low-Voltage Stackable Energy Storage Power Supply

PowerTile-CS5000-X-P



- 1

Homestyle design, elegant and beautiful
- 2

Multiple working modes (solar priority, utility priority, inverter priority)
- 3

Easy installation and maintenance, plug and play
- 4

Possess ISO/Android. App to monitor
- 5

Single battery 5.12kWh, expandable up to 20.48KWh
- 6

Multiple protection and alarm system, safe and reliable

Parameters/ Model		CS5000-5-P	CS5000-10-P	CS5000-15-P	CS5000-20-P
Utility Input Parameters	Utility Maximum Charging Current	60A			
	Rated Input Voltage	220/230/240V			
	Input Voltage Range	UPS Utility Mode: 170~280V; APL Generator Mode: 90~280V			
	Frequency	50/60Hz (Auto-Detection)			
	Transfer Time (Bypass to Inverter)	10ms (Typical)			
	Maximum Bypass Overload Current	40A			
PV Input Parameters	Number of MPPTs	1			
	PV Open Circuit Voltage	145V			
	PV Operating Voltage Range	60~145V			
	MPPT Voltage Range	60~115V			
	Maximum PV Input Current	50A			
	Maximum Input Power	4400W			
	Maximum PV Charging 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 Capacity	5.12kWh	10.24kWh	15.36kWh	20.48kWh
	Standard Charge/Discharge Current	0.25C/0.5C			
	Maximum Charge/Discharge Rate	0.5C/1C			
	Battery Type	LFP			
Operating Conditions	Operating Temperature Range	0~45℃			
	Storage Temperature Range	-15~60℃			
	Humidity	5~95%			
	Cooling Method	Air Cooling			
	IP Rating	IP54			
	Weight	80Kg	130Kg	180Kg	230Kg
	Dimensions (W*D*H)	725*515*350mm	725*515*490mm	725*515*630mm	725*515*770mm
	Communication Interface	WIFI/RS485			
Other Parameters	Certification	IEC62619、IEC62109、CE-EMC			

Low-Voltage Stackable Energy Storage Power Supply

PowerTile-CS5000H-X-P



- 1

Homestyle design, elegant and beautiful
- 2

Multiple working modes (solar priority, utility priority, inverter priority)
- 3

Easy installation and maintenance, plug and play
- 4

Possess ISO/Android. App to monitor
- 5

Single battery 5.12kWh, expandable up to 20.48KWh
- 6

Multiple protection and alarm system, safe and reliable

Parameters/ Model		CS5000H-5-P	CS5000H-10-P	CS5000H-15-P	CS5000H-20-P
Inverter Output	Rated Output Power	5500W			
	Maximum Peak Power	11000VA			
	Rated Output Voltage	230Vac Single Phase			
	Frequency	50/60±0.3Hz			
	Transfer Time	10ms			
PV Input Parameters	Number of MPPTs	2			
	PV Open Circuit Voltage	500/500V			
	Maximum Input Power	4000+4000V			
	MPPT Voltage Range	120~450Vdc			
	Maximum PV Input Current	16/16A			
Utility/Generator Input	Maximum Short-Circuit Current	27/27A			
	Input Voltage Range	90~280Vac			
	Input Frequency Range	50/60Hz			
Battery Parameters	Maximum Bypass Current	40A			
	Battery Type	LFP			
	Battery Rated Voltage	51.2V			
	Voltage Range	44.8~57.6V			
	Battery Energy Capacity	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Operating Conditions	Maximum Charge/Discharge Rate	0.5/1C			
	Charge Temperature Range	5~55°C			
	Discharge Temperature Range	-15~60°C			
	Humidity	5~95%			
	Cooling Method	Air Cooling			
	Weight	107Kg	157Kg	207Kg	257Kg
	Dimensions (W*D*H)	725*515*445mm	725*515*585mm	725*515*725mm	725*515*865mm
Other Parameters	Communication Interface	WIFI/RS485			
	Certifications	IEC62619、IEC62109、CE-EMC			

Wall-mounted energy storage power supply

PowerHive-CW5000-X



- 1

Homely style, elegant and beautiful
- 2

Single-phase European standard and single-phase American standard design, supporting multi-system grid voltage standards
- 3

Multiple working modes (photovoltaic priority, mains priority, inverter priority)
- 4

Simple installation and maintenance, the customized design meets the requirements of different customers
- 5

Possess ISO/Android. App Monitoring
- 6

Multiple protection and alarm system, safe and reliable

Parameters/ Model		CW5000-5	CW5000-10
AC Input Parameters	AC Input Range	UPS Utility Mode: 170~280V; APL Generator Mode: 90~280V	
	AC Input Frequency	50/60Hz (Auto-Detection)	
	AC Maximum Charging Current	60A	
PV Input Parameters	Recommended PV Maximum Power	4400W	
	Open Circuit Voltage	145V	
	MPPT Voltage Range	60~115V	
Battery Parameters	Maximum Charging Current	80A	
	Rated Voltage	51.2V	
	Voltage Range	44.8~57.6V	
	Energy Capacity	5120Wh	10240Wh
	Standard Charge/Discharge Current	0.25C/0.5C	
AC Output Parameters	Maximum Charge/Discharge Current	0.5C/1C	
	Battery Type	LFP	
	Rated Power	5000W	
	Surge Power	10000W	
	Rated Output Voltage	220/230/240Vac	
Operating Conditions	Rated Frequency	50/60Hz	
	Operating Temperature Range	0~55°C	
	Storage Temperature Range	-15~60°C	
	Humidity	5~95%	
	Cooling Method	Air Cooling	
	Weight	87Kg	120Kg
	Dimensions(W*D*H)	530*160*870mm	550*160*1350mm
	Protection Rating	IP20	
	Communication Interface	WIFI/RS485	
Other Parameters	Certification	IEC62619、IEC62109、CE-EMC	

Low-voltage wall-mounted energy storage battery

PowerCrate-CE-5 HOT



- 1

Extremely simple design in appearance, elegant appearance, IP40
- 2

It supports multiple battery modules in parallel, up to 8 modules
- 3

Multiple protection and alarm system, safe and reliable
- 4

Easy installation and maintenance, customized design to meet the requirements of different customers

Parameters/ Model		CE-5
Battery Parameters	Rated Voltage	51.2V
	Voltage Range	45~57.6V
	Battery Capacity	5120Wh
	Maximum Charge/Discharge Current	1C
	Battery Type	LFP
Operating Conditions	Operating Temperature Range	0~45℃
	Storage Temperature Range	-15~60℃
	Humidity	5~95%
	Cooling Method	Natural Cooling
	Weight	53Kg
	Dimensions (W*D*H)	430*186*600mm
	Installation Method	Wall-Mounted
	Communication Interface	CAN/RS485
Other Parameters	Compatible Inverter	Pylontech, Growatt, Solis, Goodwe, Ginlong, Prowatt, Sinoyaz, Victron, SuoRuid, Schneider, SMA,Maruson, Topbatt, STUDER
	Certifications	IEC62619、CE-EMC、FCC、UL1973、UL9540A

Portable Energy Storage Battery

PowerCrate-CE-16 NEW



- 1

Extremely simple design in appearance, elegant appearance, IP40
- 2

It supports multiple battery modules in parallel, up to 8 modules
- 3

Multiple protection and alarm system, safe and reliable
- 4

Easy installation and maintenance, customized design to meet the requirements of different customers

Parameters/ Model		CE-16
Battery Parameters	Rated Voltage	51.2V
	Voltage Range	44.8~56V
	Battery Capacity	16076.8Wh
	Maximum Charge/Discharge Current	0.5C
	Battery Type	LFP
Operating Conditions	Operating Temperature Range	0~50℃
	Storage Temperature Range	-15~30℃
	Humidity	5~95%
	Cooling Method	Natural Cooling
	Weight	125kg
	Dimensions (W*D*H)	413*233*825mm
	Installation Method	Freestanding/Mobile
	Communication Interface	CAN/RS485
Other Parameters	Compatible Inverter	Pylontech, Growatt, Solis, Goodwe, Prowatt, Sojoy, Sinoyaz, Victron, SuoRuid, Schneider, SMA,Maruson, Topbatt, STUDER
	Certifications	Under certification

Portable Energy Storage Power Supply

PowerPorter-CR5000-5



- 1

Extreme simple appearance design, elegant and beautiful
- 2

Draw-bar box design, easy to move, plug and play, simple operation
- 3

Multiple electrical protection, safe and reliable, adopting LFP cells, safe and stable
- 4

Possess ISO/Android. App to monitor
- 5

Built-in 5.12 KWh batteries, with long-term power supply
- 6

Multiple functions of AC power source socket, with convenient usage
- 7

Multiple power supply modes, green energy, supporting solar power charge and mains charge
- 8

With multiple operating modes, it meets the requirements of different application scenarios

Parameters/ Model		CR5000-5
AC Input Parameters	AC Input Range	170~280V
	AC Input Frequency	50/60Hz
	AC Maximum Charging Current	60A (Configurable from 0~60A)
PV Input Parameters	Recommended PV Maximum Power	4400W
	Open Circuit Voltage (Voc)	145V
	MPPT Voltage Range	60~115V
	Maximum Charging Current	80A
Battery Parameters	Rated Voltage	51.2V
	Voltage Range	44.8~57.6V
	Energy Capacity	5120Wh
	Standard Charge/Discharge Current	0.25C/0.5C
	Maximum Charge/Discharge Current	0.5C/1C
	Battery Type	LFP
AC Output Parameter	Rated Power	5000W
	Surge Power	10000VA
	Rated Output Voltage	220/230/240Vac
	Output Current	22A
	Rated Frequency	50/60Hz
Operating Conditions	Operating Temperature Range	0~55℃
	Storage Temperature Range	-15~60℃
	Humidity	5~95%
	Cooling Method	Air Cooling
	Weight	66Kg
	Dimensions(W*D*H)	540*532*316mm
	IP Rating	IP20
Other Parameters	Communication Interface	RS485/WIFI(Optional)
	Certifications	IEC62619、IEC62109、CE-EMC

Portable Energy Storage Power Supply

CP Series



Parameters/ Model	CP330-E	CP500-E	CP1000-E	CP2000-E
Rated Power	330W	500W	1000W	2200W
Rated Energy Capacity	288.6Wh	519Wh	799.2Wh	2150Wh
Rated Capacity	3.7V/78000mAh	3.7V/140400mAh	3.7V/216000mAh	3.2V/672000mAh
Overload Protection	360±20W	550±40W	1100±80W	2200±100W
AC Output	110V±10%/60Hz	110V±10%/60Hz	110V±10%/60Hz	110V/60Hz or 220V/50Hz
Output Waveform	Pure Sine Wave	Pure Sine Wave	Pure Sine Wave	Pure Sine Wave
USB Output	QC3.0/18W	QC3.0/18W	QC3.0/18W	QC3.0/18W
Type-C Output	PD60W	PD60W	PD60W	PD60W
DC55*2.5 Cigarette Lighter Output	12V/10A	14V/8A	14V/8A	14V/8A
Wireless Charging	5W	10W	10W	Supports, freely compatible with battery packs
Charging Input Voltage	12~24V	12~26V	12~26V	Direct charging from mains power (100~240V) for the product
Operating Temperature Range	-10~40℃	-10~40℃	-10~40℃	-10~40℃
Weight	≈3.3kg	≈6.8kg	≈7.5kg	≈31kg
Dimensions (W*D*H)	205*155*165mm	290*194*200mm	290*194*200mm	460*366*260mm
AC Output Support	US/Japanese, Australian, European, Chinese standards, etc.			

Rack Mounted Energy Storage Battery

CR-5



- 1

Minimalist design, elegant and beautiful, with protection level of IP20
- 2

Supports multiple battery modules in parallel, up to 16 modules
- 3

Support the expansion of LCD display and control functions
- 4

Support wall-mounted and floor-mounted installation, matching a variety of scenes

Parameters/ Model		CR-5
Battery Parameters	Rated Voltage	51.2V
	Voltage Range	43.2~56.8V
	Capacity	5120Wh
	Maximum Charge/Discharge Ratio	0.5C/1C
	Battery Type	LFP
	Number of Parallel Connection	16 Modules
Operating Condition	Charging Temperature Range	6~54°C
	Discharge Temperature Range	-15~60°C
	Humidity	5~95%
	Heat Dissipation Method	Natural Cooling
	Weight	43Kg
	Dimensions (W*D*H)	440*131*460mm
	Installation	19-inch standard cabinet
	Communication Method	CAN/RS485
Other Parameters	Matching Inverter	Pylon, Growatt, SRNE Solar, Goodwe, Solis, Pengcheng, Voltronic, Victron, Sorotek, Schneider, SMA, Must, TBB, STUDER
Protection Functions	Voltage	Battery pack overvoltage protection, cell overvoltage protection, battery pack undervoltage protection, cell undervoltage protection
	Current	Charging overcurrent protection, discharging overcurrent protection
	Temperature	Charging over-temperature protection, discharging over-temperature protection, charging under-temperature protection, discharging under-temperature protection
Other Functions	Cell and Battery Pack Voltage Detection	Single-cell voltage detection accuracy: ±5mV under conditions of -10°C to 50°C, and ±10mV under other conditions
	Battery Pack Charge/Discharge Current Detection	Continuous charge/discharge current: 100A, current detection accuracy better than 1.5%
	Cell, Ambient, and Power MOS Temperature Detection	Six-channel temperature monitoring: 4 channels for cell temperature detection, 1 channel for ambient temperature detection, 1 channel for MOS temperature detection, with a temperature detection accuracy of ±2°C
	LED Status Indicator	Six LEDs indicate battery remaining capacity, operating mode, and alarm/protection status
	Battery Management Parameter Configuration	Battery management parameters such as cell over/undervoltage, total battery pack over/undervoltage, charging overcurrent, discharging overcurrent, cell high/low temperature, ambient high/low temperature, balancing strategy, number of battery cells in series, battery capacity, etc., can be reconfigured via the host computer
	Data Storage Function	The BMS system can be configured to enable real-time storage of operational data for system monitoring, analysis, and maintenance. EEPROM: supports up to 1,000 historical records. FLASH: supports up to 30,000 historical records (this large-capacity storage function is optional)
	Dry Contact	Dry contact 1: alarm output can be set via software as required; Dry contact 2: fault signal output can be set via software as required
	Heating Function	Equipped with a low-temperature heating function for the battery, with secondary protection for the heating circuit to completely disconnect the heating film in case of abnormal heating circuit conditions. Heating film current does not exceed 5A
	WiFi Function (Optional)	Cost-effective Bluetooth 5.2 and Wi-Fi 802.11b/g/n support both AP and STA dual-role connectivity, with support for low-power Bluetooth connections, making it ideal for low-traffic control and data acquisition applications such as smart homes and industrial control. The module integrates an ultra-highly integrated microcontroller for Wi-Fi and Bluetooth, providing the necessary computing power and stable Wi-Fi and Bluetooth connectivity for IoT data terminals. It offers Bluetooth connectivity to a mobile APP for Wi-Fi connection setup, allowing customers to view the battery's current status and information on a webpage. Additionally, the battery can be upgraded remotely via the Wi-Fi platform.

Household Photovoltaic Energy Storage Integrated Inverter

Single-phase inverter



Parameters/ Model		Hybrid	Off-grid
Off-grid Parameters	Model	SEI-5K-SP	HPI-6K-SP
	Rated Output Power	5000W	6000W
	Rated Voltage	230V	
	Rated Frequency	50 / 60Hz	
	Rated Output Current	24A	26.1A
	Output THDu	< 3%	
Grid-tied Parameters	Rated Output Power	5000W	6000W
	Rated Grid Voltage	230Vac	
	Maximum Grid Input Current	24A	26.1A
	Grid Voltage Range	170~276Vac	
PV Input Parameters	Maximum Input power	4000W + 4000W	6000W + 6000W
	Start-up Voltage	120V / 120V	65V / 65V
	Maximum Input Voltage	500+500V	
	MPPT Voltage Operating Range	120~450V	65 ~ 450V
	Full-Load MPPT Voltage Range	150~450V	275~450V
	Number of MPPTs	2	
	Maximum Input Current	27+27A	22+22A
Battery Parameters	Battery Type	LFP	
	Rated Voltage	48V	
	Battery Voltage Range	40~60V	
	Maximum Continuous Charge/Discharge Current	60A	135A
Efficiency	Maximum Efficiency	97.50%	
	European Efficiency	97.20%	
	Maximum Battery Charge/Discharge Efficiency	95.20%	
Other Parameters	Dimensions (W*D*H)	556*345*182mm	300*460*217.5mm
	Weight	20kg	17.5kg
	Noise Level	<60dB	<55dB
	Operating Temperature	-25 to 60°C, derating above 45°C	
	Cooling Method	Air Cooling	
	Protection Rating	IP65	
	Human-Machine Interaction Method	LCD、APP	
	Communication Interface	RS485/CAN	
	Protection	Overvoltage protection、overcurrent protection、short circuit protection	
	Safety Certification	IEC62109-1, IEC62109-2	IEC62109-1、IEC62109-2
	EMC Certification	EN61000-6-1, EN61000-6-3, FCC15 classB	EN61000
	Grid Connection Certification	EN50549-1, G99, NRS-097, VDE-ARN-4105, CEI021	NO

COSPOWERS AI Smart Cloud Platform



AI Monitoring



Real-time monitoring of battery performance and operating status, enabling lifespan prediction and proactive protection through AI simulation and fault identification.

AI Dispatch



Leveraging multi-source data and intelligent algorithms to collaboratively participate in the electricity market, enhancing system flexibility and accommodation capacity to achieve optimal strategies.

Data Management



High-availability clusters and remote backup ensure data security, while a comprehensive indicator and reporting system supports investment and market decision-making.

Smart Operation and Maintenance



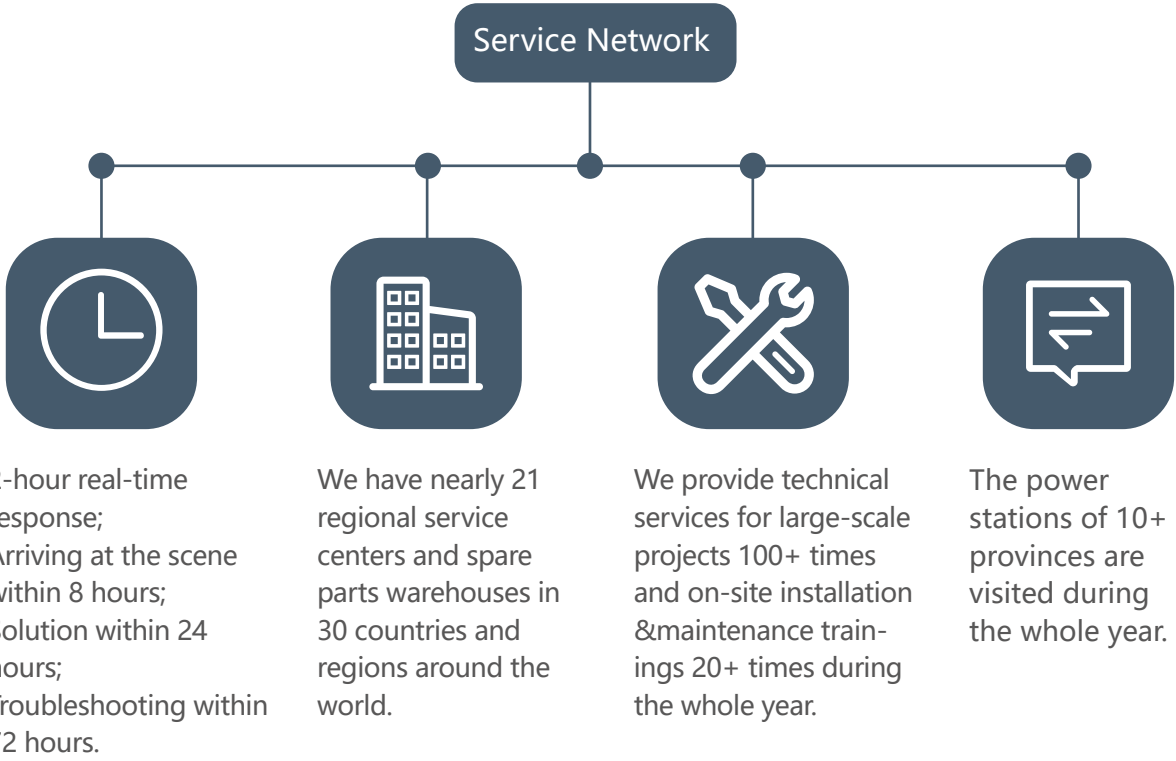
Electrical equipment inspection, diagnostic battery system maintenance strategy push, offline operation and maintenance work order management, and evaluation.

The new platform is built on a microservices architecture, supporting high-availability clusters and multi-tenant management, enabling a fully closed-loop data flow for solar, storage, and charging. By integrating intelligent forecasting and optimized dispatch, it establishes a source-grid-load-storage coordination model, helping comprehensive energy systems achieve economical, low-carbon, and multi-objective optimal operation.

After-Sales Service



The guidance of Cospower is to improve customer satisfaction, to provide high quality, efficient and professional technical services for customers.



Cooperatice Customers

