



Cospowers Technology Co., Ltd.
Room 203, No.28, Dongqi Road, Dongying City, Shandong Province, PRC

Shenzhen Coslight Power Technology Co., Ltd.
Factory 101, No.2, Guangtian Road, Luotian Community, Yanluo Street, Baoan District, Shenzhen City, Guangdong Province, PRC

Changde Cospowers New Energy Technology Co., Ltd.
(Graphene Industrial Park) No.4 Songlin Road, Sujiadu community, Zhangmuqiao Street, Economic and Technological Development Zone, Changde City, Hunan Province, PRC

Cospowers Technology Co., Ltd. Changsha Branch
3rd Floor, Building 21, Phase I, Zhongdian Software Park, No.39 Jianshan Road, High-Tech Development Zone, Changsha City, Hunan Province, PRC

Hongkong Cospower Technology Co., Ltd.
Unit 804, 8/F, Inter-Continental Plaza, 94 Granville Road, Tsim Sha Tsui East, Kowloon, Hong Kong

Changde Cospowers New Energy Co., Ltd.
(Room 301, 3rd Floor, Comprehensive Building, Graphene Industrial Park) No.4 Songlin Road, Sujiadu community, Zhangmuqiao Street, Economic and Technological Development Zone, Changde City, Hunan Province, PRC

Cospower Company Limited (South Korea)
909-15, Ganam-ro, Ganam-eup, Yeosu-si, Gyeonggi-do, Republic of Korea

Cospowers America Inc.
3859 S. Valley View Blvd. Suite 2, Las Vegas.

Cospowers GmbH
Taufsteinstr. 1, 63477 Maintal, Germany

Cospower Technology Indian Branch Office
Plot No.:25-B Hardware Park, Imaratkantha, Raviraj, Maheswaram(M), Ranga Reddy, TelANGANA-500005

Beijing Cospowers New Energy Co., Ltd.
No.169 Jijiamiao Road, Fengtai District, Beijing City, PRC

Harbin Coslight New Energy Co., Ltd.
Building 1, Nanhu Road, Jizhong Area, Yingbin Road, Development Zone, Harbin City, PRC

Anhui Cospowers New Energy Co., Ltd.
On both sides of Jing 19 Road, South of Tiankang Avenue, Tianchang City, Anhui Province, PRC

Lexel Battery (Shenzhen) Co., Ltd.
No.2, Guangtian Road, No.3 Industrial Zone, Luotian Community, Yanluo Street, Baoan District, Shenzhen, PRC

Guangdong Cospowers New Energy Co., Ltd.
Room 403 and 501, Factory 2, No.23, Gantang Avenue, Wujiang District, Shaoguan City, Guangdong Province, PRC

Cospowers B.V.
Prins Hendrikkade 21 E, 1012TL Amsterdam, Netherlands

Cospowers Chile SPA
Las Condes, Región Metropolitana De Santiago, Chile

Cospowers Technology Australia Pty Ltd
301 Burwood Hwy Burwood Vic 3125

COSPOWERS

HANDBOOK OF COMMERCIAL AND INDUSTRIAL 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

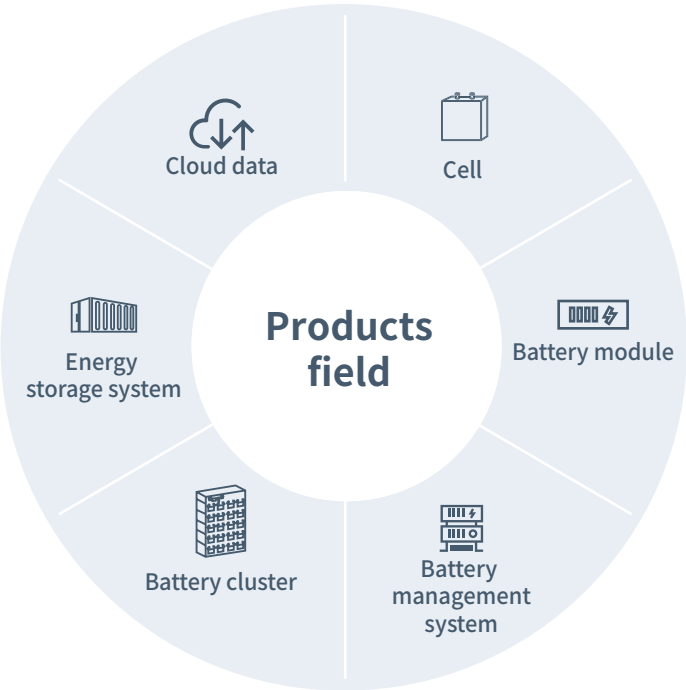
Factory area

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

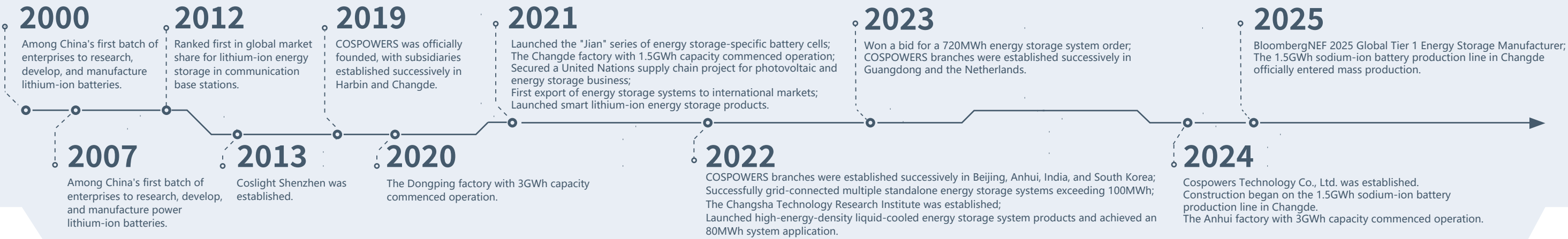
Production Base

4

R&D Centers



DEVELOPMENT HISTORY



Lithium-ion Cell



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



PowerEco-100kW/200kWh-EU HOT

Products Certified to European Standards

Application Field:
Commercial Buildings, Industrial Parks, Industrial Zones



Flexible Expansion,
Multi-functional in One Unit,
Adaptable to Various Application
Scenarios



Multiple Protection
Systems



Highly Integrated
Design with AC/DC
Integration



Touchscreen Monitoring
and Cloud-Based
Maintenance

Parameters/ Model		PowerEco-100kW/200kWh-EU
DC Side Parameters	DC Bus Maximum Voltage	950V
	DC Side Maximum Current	171A
	DC Voltage Operating Range	650~950V
AC Grid-tied Parameters	Maximum Input Apparent Power	115.5kVA
	Maximum Input Active Power	105kW
	Rated Input Voltage	400Vac, 3P3W+PE/3P4W+PE
	Maximum Continuous Input Current	167A
AC Off-grid Parameters	Rated Input Frequency	50/60Hz
	AC Off-grid Voltage	400V, 3P3W+PE/3P4W+PE
	Maximum Continuous Output Current	167A
	AC Off-grid Frequency	50/60Hz
Battery Parameters	Cell Capacity	100Ah-LFP
	Rated Energy	224kWh
	Nominal Voltage	748.8V
	Operating Voltage Range	655.2~819V
	C-rate	≤0.5C
System level Parameters	HMI	7-inch LCD Touch Screen
	Fire Protection System	Aerosol Fire Suppression
	Cooling Method	Air Cooling
	Operating Temperature	-20~55°C
	Protection Level	IP54
	Dimensions (W*D*H)	<1600*1100*2200mm
	Weight	<2700Kg
Other Parameters	MPPT Module	100kW (Optional)
	STS Module	200kW (Optional)
	Certifications	IEC62619, CE-EMC, CE-LVD, CE-RED

PowerEco-125kW/261kWh-EU

Products Certified to
European Standards

Application Field:
Microgrids, Industrial Parks,
Industrial Zones



Flexible Expansion,
Multi-functional in One Unit,
Adaptable to Various Application
Scenarios



Multiple Protection
Systems



Highly Integrated
Design with AC/DC
Integration



Touchscreen Monitoring
and Cloud-Based
Maintenance

Parameters/ Model		PowerEco-125kW/261kWh-EU
DC Side Parameters	DC Bus Maximum Voltage	950V
	DC Side Maximum Current	203A
	DC Voltage Operating Range	650~950V
AC Grid-tied Parameters	Maximum Input Apparent Power	138kVA
	Maximum Input Active Power	125kW
	Rated Input Voltage	400V, 3P3W+PE/3P4W+PE
	Maximum Continuous Input Current	200A
	Rated Input Frequency	50/60Hz
AC Off-grid Parameters	AC Off-grid Voltage	400V, 3P3W+PE/3P4W+PE
	Maximum Continuous Output Current	200A
	AC Off-grid Frequency	50/60Hz
Battery Parameters	Cell Capacity	314Ah-LFP
	Rated Energy	261kWh
	Nominal Voltage	832V
	Operating Voltage Range	728~910V
	C-rate	≤0.5C
System level Parameters	HMI	7-inch LCD Touch Screen
	Fire Protection System	Aerosol Fire Suppression
	Cooling Method	Liquid Cooling
	Operating Temperature	-20~55°C
	Protection Level	IP54
	Dimensions (W*D*H)	<1700*1350*2200mm
Other Parameters	Weight	<3500Kg
	MPPT Module	100kW (Optional)
	STS Module	200kW (Optional)
	Certifications	IEC62619, IEC62040, CE-EMC, CE-LVD, CE-RED

PowerEco-250kW/522kWh-EU

Products Certified to
European Standards

Application Field:
Commercial Buildings, Industrial
Parks, Large-scale Industrial
Zones



Flexible Expansion,
Multi-functional in One Unit,
Adaptable to Various Application
Scenarios



Multiple Protection
Systems



Highly Integrated Design
with AC/DC Integration



Touchscreen Monitoring
and Cloud-Based
Maintenance

Parameters/ Model		PowerEco-250kW/522kWh-EU
DC Side Parameter	DC Bus Maximum Voltage	950V
	DC Side Maximum Current	406A
	DC Voltage Operating Range	650~950V
AC Grid-tied Parameters	Maximum Input Apparent Power	275kVA
	Maximum Input Active Power	250kW
	Rated Input Voltage	400Vac, 3P3W+PE/3P4W+PE
	Maximum Continuous Input Current	400A
	Rated Input Frequency	50/60Hz
AC Off-grid Parameters	AC Off-grid Voltage	400V, 3P3W+PE/3P4W+PE
	Maximum Continuous Output Current	416A
	AC Off-grid Frequency	50/60Hz
Battery Parameters	Cell Capacity	314Ah-LFP
	Rated Energy	522kWh
	Nominal Voltage	832V
	Operating Voltage Range	728~910V
	C-rate	≤0.5C
System level Parameters	HMI	7-inch LCD Touch Screen
	Fire Protection System	Perfluorohexanone Fire Extinguishing / Aerosol Fire Extinguishing
	Cooling Method	Liquid Cooling
	Operating Temperature	-20~55°C
	Protection Level	IP54
	Dimensions (W*D*H)	1950*1350*2300mm
	Weight	<4600Kg
Other Parameters	MPPT Module	50kW*4 (Optional)
	Certifications	IEC62619, CE-LVD, CE-EMC

Celestial Energy

835kWh/400VAC-0.5C

Application Field:

- Peak-valley arbitrage and backup power for customer-side C&I commercial and industrial energy storage;
- Peak shaving, valley filling, and output smoothing for renewable energy stations (wind and solar);
- Grid-side frequency regulation, peak shaving, and distribution network transformer capacity expansion.



Modular and standardized design



Multi-level protection system



Integrated AC/DC system for efficient installation and commissioning



Intelligent operation and maintenance

Parameters/ Model		Celestial Energy-835kWh/400VAC-0.5C
DC side Parameters	Cell Capacity	314Ah-LFP
	Module Configuration	1P104S
	Number of Modules per Rack	2pcs
	Number of Battery Racks	4pcs
	Battery System Energy	835kWh
	Voltage Range	572~748.8V
AC side Parameters	Rated AC Power	4*105kW
	Rated Grid Voltage	AC400V
	Wiring Configuration	3W+PE
	Rated Grid Frequency	50/60Hz
	Isolation Method	No Isolation Transformer
System level Parameters	Operating Temperature	-30~55°C
	Ambient Humidity	0~95% (No Condensation)
	Operating Altitude	2000m
	Communication Method	Ethernet, RS485, optional 4G/5G mobile communication
	Protection Level	IP54
	Cooling Method	Liquid Cooling
	Noise Level	≤75dB
	Fire Protection	Aerosol Fire Suppression + Water Fire Protection + Combustible Gas Detection + Explosion-Proof Ventilation System
	Dimensions (W*D*H)	1800*2460*2490mm
	Weight	8.2t
Compliance Standards	Cluster	IEC62619、UL1973、UL9540A、UN38.3
	PCS	UL1741、EN50549、VDE4110、VDE4120、VDE4130、GB/T34120、GB/T36547...

PowerEco-30kW/207kWh

PowerEco-60kW/207kWh

Products Certified to

US Standards

Application Field:

Microgrids, Industrial Parks,
Industrial Zones



Flexible Expansion,
Multi-functional in One Unit,
Adaptable to Various Application
Scenarios



Multiple Protection
Systems



Highly Integrated
Design with AC/DC
Integration



Touchscreen Monitoring
and Cloud-Based
Maintenance

Parameters/ Model		PowerEco-30kW/207kWh	PowerEco-60kW/207kWh
DC Side Parameters	Rated Power	30kW	60kW
	Input Voltage Range	150~750V(350~750V @full load)	
	Maximum Input Current	90A	180A
AC Grid-tied Parameters	Rated Output Power	30kW	60kW
	Maximum Active Power	33kW	66kW
	Rated Grid Voltage	480V (-15~15%)3P3W+PE	
	Rated Input Frequency	60(±2.5)Hz	
AC Off-grid Parameters	Rated Output Power	30kW	60kW
	Maximum Active Power	33kW	66kW
	Rated Grid Voltage	3P3W+PE, 480 (±5% Configurable) Vac	
	Rated Frequency	60 (±5 Configurable) Hz	
Battery Parameters	Cell Capacity	100Ah-LFP	
	Rated Energy	207kWh	
	Nominal Voltage	691.2V	
	Operating Voltage Range	604.8~756V	
System level Parameters	HMI	7-inch LCD Touch Screen	
	Fire Protection System	Aerosol Fire Suppression	
	Cooling Method	Air Cooling	
	Operating Temperature	-20~55°C	
	Protection Rating	IP54	
	Dimensions (W*D*H)	1850*1100*2150mm	
	Weight	<3000Kg	
Other Parameters	MPPT Module	45kW (Optional)	
	STS Module	100kW (Optional)	
	Certifications	UL1973, UL9540A, UL9540, FCC	

PowerEco-50kW/100kWh

**Products Certified to
Australian Standards**

Application Field:
Microgrids, Industrial Parks,
Industrial Zones



Flexible Expansion,
Multi-functional in One Unit,
Adaptable to Various Application
Scenarios



Multiple Protection
Systems



Highly Integrated
Design with AC/DC
Integration



Touchscreen Monitoring
and Cloud-Based
Maintenance

Parameters/ Model		PowerEco-50kW/100kWh
PV side Parameters	Number of PV Inputs	1 Channel
	PV Input Voltage	300~850V
	PV Maximum Input Current	200A
	MPPT Power	50kW
AC Grid-tied Parameters	Maximum Input Apparent Power	50kVA
	Maximum Input Active Power	50kW
	Rated Input Voltage	220/380V,3P4W+PE
	Maximum Continuous Input Current	86A
	Rated Input Frequency	50Hz
AC Off-grid Parameters	AC Off-Grid Voltage	220/380, 3P4W+PE
	Maximum Continuous Output Current	86A
	AC Off-Grid Frequency	50Hz
Battery Parameters	Battery Type	LFP
	Rated Energy Capacity	103KWh
	Nominal Voltage	345.6V
	Operating Voltage Range	302~378V
	C-Rate	≤0.5C
System level Parameters	HMI	7-inch LCD Touchscreen
	Fire Protection System	Perfluorohexanone Fire Suppression
	Cooling System	Air Cooling
	Operating Temperature	0~55°C
	IP Rating	IP54
	Dimensions (W*D*H)	900*1300*2300mm
	Weight	<1800Kg
	Certifications	IEC62619、IEC62040、CE-EMC、CE-LVD、CE-RED

PowerEco-60kW/120kWh

**Products Compliant with
Chilean Standards**

Application Field
Domestic Solar and Energy Storage
Charging Station、Microgrid、Office
Building



Flexible expansion, versatile
all-in-one design, compatible
with multiple application
scenarios



Utilizes sodium-ion
batteries with
excellent high and low
temperature performance



Highly integrated
design combining
AC and DC systems



Touchscreen
monitoring and
cloud-based
maintenance



With
AFCI-enabled
function

Parameters/ Model		PowerEco-60kW/120kWh
PV Input Parameters	Maximum Input Voltage	1100Vdc
	MPPT Voltage Range	180~900Vdc
	Rated Power	90kW
	Number of MPPTs	4
AC Grid-tied Parameters	Maximum Input Apparent Power	66kVA
	Maximum Input Active Power	60kW
	Rated Input Voltage	400/230Vac,3W+N+PE
	Maximum Continuous Input Current	100A
	Rated Input Frequency	50/60Hz
AC Off-grid Parameters	AC Off-grid Voltage	400/230Vac,3W+N+PE
	Maximum Continuous Output Current	91A
	AC Off-grid Frequency	50/60Hz
Battery Parameters	Cell Capacity	314Ah-LFP
	Rated Energy	120kWh
	Nominal Voltage	384V
	Operating Voltage Range	336~420V
	C-rate	≤0.5C
	Maximum Charging Current	100A*2
System level Parameters	HMI	7-inch LCD Touch Screen
	Fire Protection System	Perfluorohexanone Fire Extinguishing / Aerosol Fire Extinguishing
	Cooling Method	Air Cooling
	Operating Temperature	-20~55°C
	IP Rating	IP54
	Dimensions (W*D*H)	<1200*1200*2150mm
	Weight	<1500Kg
	Certifications	IEC62619,UN38.3
Other Parameters		

Integrated Energy Cabinet

Products Compliant with Chinese Standards

Application Field
Domestic Solar and Energy Storage Charging Station、Microgrid、Office Building



Flexible configuration, compact size, suitable for multiple scenarios



Modular PACK design, freely combinable, easy to maintain



Safety ensured, including fire protection, water immersion protection, and thermal management



LCD screen for intuitive display, supports photovoltaic integration

Parameters/ Model		6kW/30kWh	10kW/30kWh	15kW/30kWh	15kW/50kWh
PV Input Parameters	Maximum Input Voltage	1000Vdc			
	MPPT Voltage Range	180~850Vdc			
	Rated Power	9kW	15kW	22.5kW	22.5kW
	Number of MPPTs	2			
AC Grid-tied Parameters	Maximum Input Apparent Power	6.6kVA	11kVA	16.5kVA	16.5kVA
	Maximum Input Active Power	6kW	10kW	15kW	15kW
	Rated Input Voltage	400Vac,3W+N+PE			
	Maximum Continuous Input Current	9.5A	15.9A	23.8A	23.8A
	Rated Input Frequency	50/60Hz			
AC Off-grid Parameters	AC Off-grid Voltage	400Vac,3W+N+PE			
	Maximum Continuous Output Current	9.5A	15.9A	23.8A	23.8A
	AC Off-grid Frequency	50/60Hz			
Battery Parameters	Cell Capacity	100Ah-LFP			
	Rated Energy	30kWh	30kWh	30kWh	50kWh
	Nominal Voltage	307.2V	307.2V	307.2V	512V
	Operating Voltage Range	268.8~345.6V	268.8~345.6V	268.8~345.6V	448~560V
	C-rate	≤0.5C			
	Maximum Charging Current	50A			
System level Parameters	HMI	7-inch LCD Touch Screen			
	Fire Protection System	Perfluoroketone Fire Suppression			
	Cooling Method	Air Cooling			
	Operating Temperature	-20~55℃			
	IP Rating	IP54			
	Dimensions (W*D*H)	<700*750*1350mm	<700*750*1350mm	<700*750*1350mm	<700*750*1885mm
	Weight	<500Kg	<500Kg	<500Kg	<800Kg
Other Parameters	Certifications	Cell:IEC62619,UL1973,UL9540A,UN38.3,RoHS,MSDS,Pack:UL9540A,UN38.3			

PowerEco-100kW/200kWh

Products Compliant with Chinese Standards

Application Field:
Commercial Buildings, Industrial Parks, Industrial Zones



Flexible Expansion, Multi-functional in One Unit, Adaptable to Various Application Scenarios



Multiple Protection Systems



Highly Integrated Design with AC/DC Integration



Touchscreen Monitoring and Cloud-Based Maintenance

Parameters/ Model		PowerEco-100kW/200kWh
DC Side Parameters	DC Bus Maximum Voltage	950V
	DC Side Maximum Current	171A
	DC Voltage Operating Range	650~950V
AC Grid-tied Parameters	Maximum Input Apparent Power	115.5kVA
	Maximum Input Active Power	105kW
	Rated Input Voltage	400Vac, 3P3W+PE/3P4W+PE
	Maximum Continuous Input Current	167A
	Rated Input Frequency	50/60Hz
AC Off-grid Parameters	AC Off-grid Voltage	400V, 3P3W+PE/3P4W+PE
	Maximum Continuous Output Current	167A
	AC Off-grid Frequency	50/60Hz
Battery Parameters	Cell Capacity	100Ah-LFP
	Rated Energy	224kWh
	Nominal Voltage	748.8V
	Operating Voltage Range	655.2~819V
	C-rate	≤0.5C
System level Parameters	HMI	7-inch LCD Touch Screen
	Fire Protection System	Aerosol Fire Suppression
	Cooling Method	Air Cooling
	Operating Temperature	-20~55℃
	Protection Level	IP54
	Dimensions (W*D*H)	<1600*1100*2200mm
	Weight	<2700Kg
Other Parameters	MPPT Module	100kW (Optional)
	STS Module	200kW (Optional)
	Certifications	IEC62619、CE-EMC、CE-LVD、CE-RED

PowerEco-125kW/261kWh

Products Compliant with
Chinese Standards

Application Field:
Commercial Buildings, Industrial
Parks, Industrial Zones



Flexible Expansion,
Multi-functional in One Unit,
Adaptable to Various Application
Scenarios



Multiple Protection
Systems



Highly Integrated
Design with AC/DC
Integration



Touchscreen Monitoring
and Cloud-Based
Maintenance

Parameters/ Model		PowerEco-125kW/261kWh
DC Side Parameters	DC Bus Maximum Voltage	950V
	DC Side Maximum Current	203A
	DC Voltage Operating Range	650~950V
AC Grid-tied Parameters	Maximum Input Apparent Power	138kVA
	Maximum Input Active Power	125kW
	Rated Input Voltage	400Vac, 3P3W+PE/3P4W+PE
	Maximum Continuous Input Current	200A
	Rated Input Frequency	50/60Hz
AC Off-grid Parameters	AC Off-grid Voltage	400Vac, 3P3W+PE/3P4W+PE
	Maximum Continuous Output Current	200A
	AC Off-grid Frequency	50/60Hz
Battery Parameters	Cell Capacity	314Ah-LFP
	Rated Energy	261kWh
	Nominal Voltage	832V
	Operating Voltage Range	728~910V
	C-rate	≤0.5C
System level Parameters	HMI	7-inch LCD Touch Screen
	Fire Protection System	Perfluorohexanone Fire Extinguishing / Aerosol Fire Extinguishing
	Cooling Method	Liquid Cooling
	Operating Temperature	-20~55℃
	Protection Level	IP54
	Dimensions (W*D*H)	<1100*1350*2350mm
	Weight	<2900Kg
Other Parameters	Certifications	Cell:IEC62619,UL1973,UL9540A,UN38.3,RoHS,MSDS,Pack:UL9540A,UN38.3

PowerEco-130kW/261kWh

Products Compliant with
Chinese Standards

Application Field:
Commercial Buildings, Industrial
Parks, Industrial Zones



Flexible Expansion,
Multi-functional in One Unit,
Adaptable to Various Application
Scenarios



Multiple Protection
Systems



Highly Integrated
Design with AC/DC
Integration



Touchscreen Monitoring
and Cloud-Based
Maintenance

Parameters/ Model		PowerEco-130kW/261kWh
DC Side Parameters	DC Bus Maximum Voltage	1000V
	DC Side Maximum Current	191A
	DC Voltage Operating Range	650~1000V
AC Grid-tied Parameters	Maximum Input Apparent Power	140kVA
	Maximum Input Active Power	130kW
	Rated Input Voltage	230/400V,3P+N+PE
	Maximum Continuous Input Current	206A
	Rated Input Frequency	50/60Hz
AC Off-grid Parameters	AC Off-grid Voltage	230/400V, 3P+N+PE
	Maximum Continuous Output Current	206A
	AC Off-grid Frequency	50/60Hz
Battery Parameters	Cell Capacity	314Ah-LFP
	Rated Energy	261kWh
	Nominal Voltage	832V
	Operating Voltage Range	728~910V
	C-rate	≤0.5C
System level Parameters	HMI	7-inch LCD Touch Screen
	Fire Protection System	Perfluorohexanone Fire Extinguishing / Aerosol Fire Extinguishing
	Cooling Method	Liquid Cooling
	Grid-Off-grid switching time	20ms
	Operating Temperature	-20~55℃
	Protection Level	IP54
	Dimensions (W*D*H)	<1100*1350*2350mm
	Weight	<2900Kg
Other Parameters	Certifications	Cell:IEC62619,UL1973,UL9540A,UN38.3,RoHS,MSDS,Pack:UL9540A,UN38.3

PowerEco-250kW/522kWh

Products Compliant with Chinese Standards
Application Field:
Commercial Buildings, Industrial Parks, Large-scale Industrial Zones



Flexible Expansion, Multi-functional in One Unit, Adaptable to Various Application Scenarios



Multiple Protection Systems



Highly Integrated Design with AC/DC Integration



Touchscreen Monitoring and Cloud-Based Maintenance

Parameters/ Model		PowerEco-250kW/522kWh
DC Side Parameter	DC Bus Maximum Voltage	950V
	DC Side Maximum Current	406A
	DC Voltage Operating Range	650~950V
AC Grid-tied Parameters	Maximum Input Apparent Power	275kVA
	Maximum Input Active Power	250kW
	Rated Input Voltage	400Vac, 3P3W+PE/3P4W+PE
	Maximum Continuous Input Current	400A
AC Off-grid Parameters	Rated Input Frequency	50/60Hz
	AC Off-grid Voltage	400V, 3P3W+PE/3P4W+PE
	Maximum Continuous Output Current	416A
	AC Off-grid Frequency	50/60Hz
Battery Parameters	Cell Capacity	314Ah-LFP
	Rated Energy	522kWh
	Nominal Voltage	832V
	Operating Voltage Range	728~910V
	C-rate	≤0.5C
System level Parameters	HMI	7-inch LCD Touch Screen
	Fire Protection System	Perfluorohexanone Fire Extinguishing / Aerosol Fire Extinguishing
	Cooling Method	Liquid Cooling
	Operating Temperature	-20~55℃
	Protection Level	IP54
	Dimensions (W*D*H)	1950*1350*2300mm
Other Parameters	Weight	<4600Kg
	MPPT Module	50kW*4 (Optional)
	Certifications	IEC62619, CE-LVD, CE-EMC

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.

COSPOWERS Energy Management System



Intelligent Control & Efficiency Enhancement



Real-time monitoring of key parameters in energy storage systems, intelligently optimizing charging and discharging strategies to enhance economic benefits through peak-valley arbitrage.

Smart Assessment



Utilizing algorithms to assess battery capacity and state of health, providing a basis for optimizing charging and discharging strategies.

Safety Management



Equipped with multiple safety protections and battery balancing management, enabling fault prediction and diagnosis to facilitate quick maintenance.

Energy Forecasting



Based on historical data and weather forecasts, predicting load and power generation to plan energy storage strategies in response to energy fluctuations.

The platform integrates monitoring, analysis, control, reporting, and optimization functions, providing panoramic monitoring and centralized management with a user-friendly visual interface. Through cloud-edge integration, it enables bidirectional data interaction and dynamically adjusts strategies based on factors such as electricity prices and load, achieving peak shaving, valley filling, and demand control.

Industrial and Commercial Energy Storage Application Cases



Madagascar IVATO Industrial Park Integrated Photovoltaic-Energy Storage-Diesel Smart Microgrid Project
Project Time: 2025
Project Location: Africa



U.S. Commercial & Industrial Energy
Project Time: 2025
Project Location: San Francisco, USA

Industrial and Commercial Energy Storage Application Cases



Scotland Commercial & Industrial Energy
Project Time: 2025
Project Location: Glasgow, Scotland



China Mobile Ningxia Company Data Center Distributed Photovoltaic Project
Project Time: 2025
Project Location: Ningxia, China

Industrial and Commercial Energy Storage Application Cases



Shandong Oilfield DC Microgrid with Flexible Solar-Storage-Wind Integrated Energy Storage System
Project Time: 2025
Project Location: Shandong, China



Kunming Shilin Beida Village Heavy-Duty Truck Charging Station Energy Storage Project
Project Time: 2025
Project Location: Yunnan, China

Industrial and Commercial Energy Storage Application Cases



Norway Commercial & Industrial Energy

Project Time: 2024

Project Location: Norway



U.S. Off-Grid Solar-Storage Integrated Backup Power Project

Project Time: 2024

Project Location: United States

Industrial and Commercial Energy Storage Application Cases



Myanmar Commercial & Industrial Energy Storage Project

Project Time: 2024

Project Location: Myanmar



Jiangsu Taixing Garment Washing Factory Commercial & Industrial Energy Storage Project

Project Time: 2024

Project Location: Jiangsu,China

Industrial and Commercial Energy Storage Application Cases



Shenzhen Pinghu Peak Shaving & Valley Filling Commercial & Industrial Energy Storage Project
Project Time: 2024
Project Location: Guangdong,China



Myanmar Mandalay SKG Toll Station Commercial & Industrial Energy Storage Project
Project Time: 2023
Project Location: Myanmar

Industrial and Commercial Energy Storage Application Cases



Myanmar Mandalay Farmers' Market Commercial & Industrial Energy Storage Project
Project Time: 2023
Project Location: Myanmar



Hunan Changde Solar-Storage-Charging Integrated Station Commercial & Industrial Energy Storage Project
Project Time: 2023
Project Location: Hunan,China

Four Core Pillars of the Energy Storage Cloud Platform



Multi-Model Analytics



Establishes various models based on heat generation and charge/discharge data to conduct multi-dimensional analysis on each individual battery cell, followed by a comprehensive evaluation.

High Identification Accuracy



Collects data every 500 milliseconds and applies dynamic compensation and correction to the battery data to ensure high identification accuracy.

Data Real-Time Performance



Performs data analysis for the energy storage power station based on each complete charge/-discharge cycle, significantly improving the battery assessment frequency.

Proactive Early Warning



Analyzes battery data to enable the screening of potentially faulty batteries up to 7 days in advance, providing specific maintenance recommendations.

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

