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COSPOWERS BATTERY

**HANDBOOK OF
NETWORK ENERGY STORAGE
PRODUCTS**

Dongying Cospower Technology Co., Ltd.

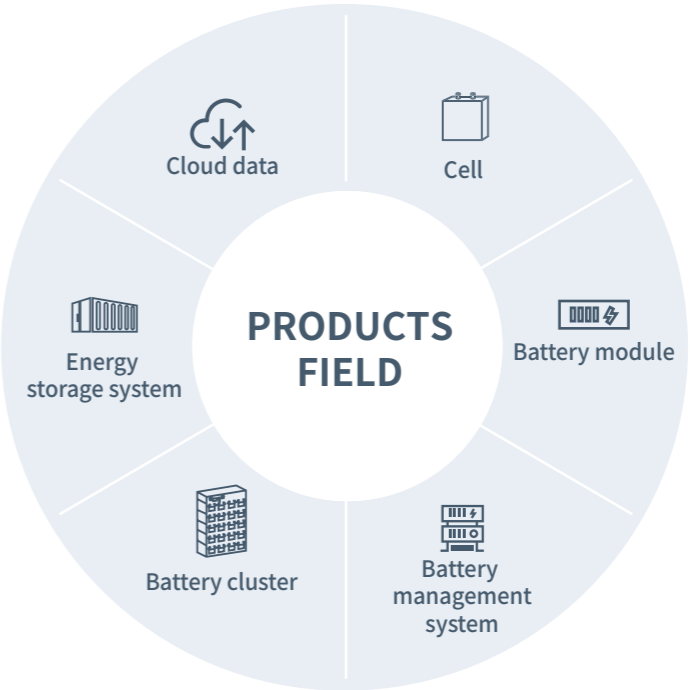


ABOUT COSPOWERS BATTERY MANUFACTURING

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, has been in a leading position in global shipments, or long time.

Domestic and overseas branches & subsidiaries	The energy storage industry applications began in 2008.	Factory area	Annual production capacity	Global cumulative shipments exceed
17	14Years	850000 m²	12GWh+	10GWh
One of the first-batch lithium-ion battery R&D and manufacturing enterprises in China	One of the first-batch lithium-ion battery manufacturing enterprises in China's new energy vehicle admission directory	The market share in the field of communication energy storage ranks first in the world.	patented technology and soft	Standards formulated
No.1	No.1	No.1	1500+	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

COMMUNICATION ENERGY STORAGE PRODUCTS

Smart lithium battery
Sodium-ion battery



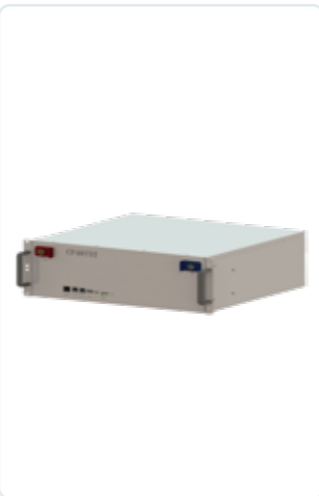
CS48100T CN48100T
CS48150T

Embedded series-1U



CF4820T
CF4840T

Embedded series-2U



CF4820T CF4850T
CF48100T

Embedded series-3U



CF4875T CF48100T
CF48150T

Embedded series-4/4.5U



CF48100T-4U
CF48150T-4.5U

Integrated series



CF4820Y
CF4850Y

Photovoltaic hybrid power
supply system cabinet



ESS-48-4KW-A-300-1

DATA CENTER ENERGY STORAGE PRODUCTS



5-15 mins
series



30+mins
series



60+mins
series

INDUSTRIAL AND COMMERCIAL ENERGY STORAGE PRODUCTS



Outdoor solar storage
integrated machine



Air cooled integrated
machine



Liquid cooled Integrated
Machine



Box Type

ENERGY STORAGE CELL

SMART LITHIUM BATTERYTOTAL SOLUTION PROVIDER



ENERGY STORAGE CELL-LFP



60Ah
High power cell series



100Ah
Power energy cell serie



280Ah
Energy cell series



314Ah
Energy cell series



LFP material
Optimal energy storage
lithium-ion battery



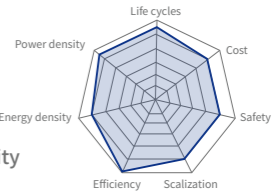
Prismatic battery
Multi-level battery
protection



Lamination design
Effectively improving battery
energy density



Aluminum case
Excellent thermal conductivity
and cooling properties



THE THIRD GENERATION ‘SLIP’ SERIES CELLS WITH SPECIAL ENERGY STORAGE DESIGN OF NARROW AND LONG SHAPE

20%

Thinner and longer with space utilization rate reduced by 20%

25%

Customized development with energy density increased by 25%

High safety

Fire and explosion will not occur under high temperature, overcharging, extrusion, nail penetration test and other conditions

Better heat dissipation

Better heat dissipation performance during high-rate charge and discharge



ENERGY STORAGE CELL-Na

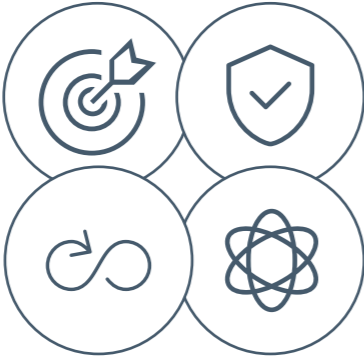


More Professional Research Patent Technology Accumulation Cooperation with Famous Universities

Our technical team has been deeply involved in the battery field for over 20 years, with nearly 200 R&D patents, software copyrights, 4 major R&D centers and over 1000 research achievements. We have established cooperation with several famous universities, conducting extensive research in sodium material synthesis, sodium electrochemical principles and so on.

Longer Service Life High cycle count, fast charging with minimal impact

Cycle life exceeds 2000 times, negative electrode uses aluminum foil instead of copper foil, product electrolyte ion conductivity increased by 20%, and has better low temperature and rate performance.



Safer Products Independently Developed Cells Wide Temperature Range High Rate

Our energy storage units use independently developed sodium-ion cells, possessing the characteristics of a wide temperature range and high rate. The system does not require cooling or insulation measures when operating in environments ranging from -40°C to 50°C. Utilizing layered oxides as raw materials, it ensures thermal stability and superior safety performance.

Smarter Management Advanced Battery Management System, Wide Applicability

Utilizing an advanced smart battery management system, it has overcharge, overdischarge, overcurrent, temperature, and other alarm and protection functions, as well as historical data storage capabilities. It exhibits outstanding advantages in backup power supply, specific occasions, and high-rate discharge scenarios, making it suitable for widespread application in critical locations such as data and communication centers.

CELL PARAMETERS

S/N	Model	Rated capacity[Ah]	Nominal voltage[V]	Voltage range[V]	Max charge/discharge rate[C]
LFP - High power cell series					
1	FP1690200A	15Ah	3.2V	2.8-3.65V	2C/8C
2	FP31136170A	40Ah	3.2V	2.8-3.65V	2C/8C
3	FP31136170A	50Ah	3.2V	2.8-3.65V	2C/6C
4	FP26122260A	60Ah	3.2V	2.8-3.65V	2C/5C
5	FP31136227A	60Ah	3.2V	2.8-3.65V	2C/5C
LFP - Power energy cell series					
1	FP20106300A	50Ah	3.2V	2.8-3.65V	1C/3C
2	FP31136170A	50Ah	3.2V	2.8-3.65V	1C/3C
3	FP26122260A	75Ah	3.2V	2.8-3.65V	1C/3C
4	FP31136227A	75Ah	3.2V	2.8-3.65V	1C/3C
5	FP26122280A	80Ah	3.2V	2.8-3.65V	1C/3C
6	FP26122320A	100Ah	3.2V	2.8-3.65V	1C/3C
7	FP31136282A	100Ah	3.2V	2.8-3.65V	1C/3C
8	FP27122430A	150Ah	3.2V	2.8-3.65V	1C/3C
LFP - Energy cell series					
1	FP20106255A	40Ah	3.2V	2.8-3.65V	1C/1C
2	FP31136227A	80Ah	3.2V	2.8-3.65V	1C/1C
3	FP26122341A	100Ah	3.2V	2.8-3.65V	1C/1C
4	FP31136255A	100Ah	3.2V	2.8-3.65V	1C/1C
5	FP45173209A	150Ah	3.2V	2.8-3.65V	1C/1C
6	FP71173207A	280Ah	3.2V	2.8-3.65V	0.5C/1C
7	FP71173207A	305Ah	3.2V	2.8-3.65V	0.5C/1C
8	FP71173207A	314Ah	3.2V	2.8-3.65V	0.5C/1C
Na - Sodium ions cell series					
1	NA1690135A	10Ah	3.05V	1.5-3.95V	1C/3C
2	NA31136255A	80Ah	3.05V	1.5-3.95V	1C/3C
3	NA31136282A	95/100Ah	3.05V	1.5-3.95V	1C/3C
4	NA50160155A	100Ah	3.05V	1.5-3.95V	1C/3C

COMMUNICATION
ENERGY STORAGE
PRODUCTS

Product series

- Smart lithium battery series
- Smart Sodium-ion battery series
- Embedded series
- Integrated series

SMART LITHIUM BATTERY SERIES-3U
CS48100T / CS48150T



Good performance in high-temperature environments
Natural cooling at ambient temperature <38°C, saving energy

Intelligent Protection
With voltage, current and temperature intelligent protection functions

Service life
25°C, 3000times @0.5C

Easy for operation and maintenance
Integrated BMS design, battery supports SOC self-management, SOH management and other functions

Operating Mode
Self-management constant voltage discharging, power management of constant voltage discharge, battery characteristic discharging mode and constant power discharge, which realize the mixed use of different batteries and profiting from storing electricity during off-peak hours and discharging during peak hours according to the Peak-valley price.

BMS INTRODUCTION

	INTRODUCTION
Communication interface	RS485/CAN
Information sampling function	With each series-connected single cell voltage, external busbar voltage, total battery pack voltage, charging and discharging current, cell surface temperature, BMS single-board temperature sampling function
Battery Cell equalization function	The battery has a passive equalization function, which can be activated when the cell pressure difference exceeds a certain value during charging.
Charging current Limit function	With the function of automatically entering the current-limiting charging mode when detecting the battery cell: low voltage, high voltage, low temperature, high temperature, poor consistency, charging over-current protection
Voltage acquisition accuracy	0~5V, Detection accuracy≤10mV; 0~60V Detection accuracy≤0.5%
Current acquisition accuracy	Detection accuracy≤1% (0.5C charging/discharging)
Anti-theft function	Software anti-theft, communication anti-theft, gyroscope anti-theft and other functions are optional
System component failure alarm	It has failure detection and alarm function for key components of BMS board. While it is detected with temperature sensor failure, voltage detection failures, charge and discharge MOS failure, an alarm will be generated and the charge and discharge loops will be disconnected (if the charge and discharge loop is damaged, it is not required to disconnect), the battery cannot recover automatically, and all the indicators flash to prompt.
History logs	500 historical records, 10000 historical records and life-cycle storage are optional; Independent storage space; BMS has power failure preservation capability; Historical data records include battery voltage, current, ambient temperature, SOC, SOH, cycle times, cumulative discharge capacity and other data


MODULE SPECIFICATION AND PARAMETERS


MODEL	CS48100T	CS48150T
Connection Method	1P15S	1P15S
Rated Energy	4800Wh	7200Wh
Rated Capacity	100Ah	150Ah
Rated Voltage	48V	48V
Voltage Range	42~58V	42~58V
Charging Current	50A	50A
Discharge Current	100A	100A
Operating Temperature	charge: 0~50°C; discharge: -20~55°C; Storage: -30~45°C	
Self-discharging Rate	≤3% (0~30°C/3 months)	≤3% (0~30°C/3 months)
Size	440*410*130mm	440*525*130mm
Weight	42Kg	59Kg


SMART SODIUM-ION BATTERY SERIES-4U


CN48100T




- 

Good performance in high-temperature environments
Natural cooling at ambient temperature <50°C, saving energy
- 

Intelligent Protection
With voltage, current and temperature intelligent protection functions
- 

Service life
25°C, 1500times @0.5C
- 

Easy for operation and maintenance
Integrated BMS design, battery supports SOC self-management, SOH management and other functions
- 

Operating Mode
Self-management constant voltage discharging, power management of constant-voltage discharge, battery characteristic discharging mode and constant power discharge, which realize the mixed use of different batteries and profiting from storing electricity during off-peak hours and discharging during peak hours according to the Peak-valley price.

BMS INTRODUCTION

	INTRODUCTION
Communication interface	RS485/CAN
Information sampling function	With each series-connected single cell voltage, external busbar voltage, total battery pack voltage, charging and discharging current, cell surface temperature, BMS single-board temperature sampling function
Battery Cell equalization function	The battery has a passive equalization function, which can be activated when the cell pressure difference exceeds a certain value during charging.
Charging current Limit function	With the function of automatically entering the current-limiting charging mode when detecting the battery cell: low voltage, high voltage, low temperature, high temperature, poor consistency, charging over-current protection
Voltage acquisition accuracy	0~5V, Detection accuracy≤10mV; 0~60V Detection accuracy≤0.5%
Current acquisition accuracy	Detection accuracy≤1% (0.5C charging/discharging)
Anti-theft function	Software anti-theft, communication anti-theft, gyroscope anti-theft and other functions are optional
System component failure alarm	It has failure detection and alarm function for key components of BMS board. While it is detected with temperature sensor failure, voltage detection failures, charge and discharge MOS failure, an alarm will be generated and the charge and discharge loops will be disconnected (if the charge and discharge loop is damaged, it is not required to disconnect), the battery cannot recover automatically, and all the indicators flash to prompt.
History logs	500 historical records, 10000 historical records and life-cycle storage are optional; independent storage space; BMS has power failure preservation capability; Historical data records include battery voltage, current, ambient temperature, SOC, SOH, cycle times, cumulative discharge capacity and other data


MODULE SPECIFICATION AND PARAMETERS


MODEL	CN48100T
Connection Method	1P15S
Rated Energy	4960Wh
Rated Capacity	100Ah
Rated Voltage	48V
Voltage Range	40~58V
Charging Current	50A
Discharge Current	100A
Operating Temperature	charge: 0~50°C; discharge: -20~55°C; Storage: -30~45°C
Self-discharging Rate	≤3% (0~30°C/3 months)
Size	440*420*176mm
Weight	53Kg

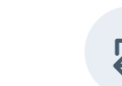
EMBEDDED SERIES-1U


CF4820T / CF4840T




- 

Good performance in high-temperature environments
Natural cooling at ambient temperature <50°C, saving energy
- 

Intelligent Protection
With voltage, current and temperature intelligent protection functions
- 

Service life
25°C, 1500times @0.5C
- 

Easy for operation and maintenance
Integrated BMS design, battery supports SOC self-management, SOH management and other functions
- 

Anti-theft function
Software anti-theft, communication anti-theft, gyroscope anti-theft and other functions are optional

MODEL	CF4820T		CF4840T	
Connection Method	1P15S	1P16S	1P15S	1P16S
Rated Energy	960Wh	1024Wh	1920Wh	2048Wh
Rated Capacity	20Ah	20Ah	40Ah	40Ah
Rated Voltage	48V	51.2V	48V	51.2V
Voltage Range	42~52.5V	43.2~56.8V	42~52.5V	43.2~56.8V
Charging Current	10A	10A	20A	20A
Discharge Current	20A	20A	40A	40A
Operating Temperature	charge: 0~50°C; discharge: -20~55°C; Storage: -30~45°C			
Self-discharging Rate	≤3% (0~30°C/3 months)			
Size	440*400*44mm		440*320*88mm	
Weight	11.7Kg	12Kg	18Kg	19Kg
Communication interface	RS485/RS232/CAN			
Charging current Limit function	With the function of automatically entering the current-limiting charging mode when detecting the battery cell: low voltage, high voltage, low temperature, high temperature, poor consistency, charging over-current protection			
Voltage acquisition accuracy	0~5V, Detection accuracy≤10mV; 0~60V Detection accuracy≤0.5%			
Current acquisition accuracy	Detection accuracy≤1% (0.5C charging/discharging)			
Anti-theft function	Software anti-theft, communication anti-theft, gyroscope anti-theft and other functions are optional			

EMBEDDED SERIES-2U

CF4820T / CF4850T / CF48100T



- Good performance in high-temperature environments**
Natural cooling at ambient temperature <50°C, saving energy
- Intelligent Protection**
With voltage, current and temperature intelligent protection unctions
- Service life**
25°C,1500times @0.5C
- Easy for operation and maintenance**
Integrated BMS design, battery supports SOC self-management、SOH management and other functions
- Anti-theft function**
Software anti-theft, communication anti-theft, gyroscope anti-theft and other functions are optional

MODEL	CF4820T		CF4850T		CF48100T
Connection Method	1P15S	1P16S	1P15S	1P16S	1P15S
Rated Energy	960Wh	1024Wh	2400Wh	2560Wh	4800Wh
Rated Capacity	20Ah	20Ah	50Ah	50Ah	100Ah
Rated Voltage	48V	51.2V	48V	51.2V	48V
Voltage Range	42~52.5V	43.2~56.8V	42~52.5V	43.2~56.8V	42~52.5V
Charging Current	10A	10A	25A	25A	50A
Discharge Current	20A	20A	50A	50A	100A
Operating Temperature	charge: 0~50°C; discharge: -20~55°C; Storage: -30~45°C				
Self-discharging Rate	≤3% (0~30°C/3 months)				
Size	440*200*88mm		440*390*88mm		440*525*88mm(19inch) 492*525*88mm (21inch)
Weight	12Kg	12.3Kg	24Kg	25Kg	42Kg(19inch) 42.5Kg (21inch)
Communication interface	RS485/RS232/CAN				
Charging current Limit function	With the function of automatically entering the current-limiting charging mode when detecting the battery cell: low voltage, high voltage, low temperature, high temperature, poor consistency, charging over-current protection				
Voltage acquisition accuracy	0~5V, Detection accuracy≤10mV; 0~60V Detection accuracy≤0.5%				
Current acquisition accuracy	Detection accuracy≤1% (0.5C charging/discharging)				
Anti-theft function	Software anti-theft, communication anti-theft, gyroscope anti-theft and other functions are optional				

EMBEDDED SERIES-3U

CF4875T / CF48100T / CF48150T



- Good performance in high-temperature environments**
Natural cooling at ambient temperature <50°C, saving energy
- Intelligent Protection**
With voltage, current and temperature intelligent protection unctions
- Service life**
25°C,1500times @0.5C
- Easy for operation and maintenance**
Integrated BMS design, battery supports SOC self-management、SOH management and other functions
- Anti-theft function**
Software anti-theft, communication anti-theft, gyroscope anti-theft and other functions are optional

MODEL	CF4875T	CF48100T		CF48150T	
Connection Method	1P15S	1P15S	1P15S	1P15S	1P16S
Rated Energy	3600Wh	4800Wh	5120Wh	7200Wh	7680Wh
Rated Capacity	75Ah	100Ah	100Ah	150Ah	150Ah
Rated Voltage	48V	48V	51.2V	48V	51.2V
Voltage Range	42~52.5V	42~52.5V	43.2~56.8V	42~52.5V	43.2~56.8V
Charging Current	35A	50A	50A	75A	75A
Discharge Current	75A	100A	100A	150A	150A
Operating Temperature	charge: 0~50°C; discharge: -20~55°C; Storage: -30~45°C				
Self-discharging Rate	≤3% (0~30°C/3 months)				
Size	440*370*130mm	440*420*130mm		440*480*200mm	
Weight	30Kg	41Kg	43Kg	65Kg	65Kg
Communication interface	RS485/RS232/CAN				
Charging current Limit function	With the function of automatically entering the current-limiting charging mode when detecting the battery cell: low voltage, high voltage, low temperature, high temperature, poor consistency, charging over-current protection				
Voltage acquisition accuracy	0~5V, Detection accuracy≤10mV; 0~60V Detection accuracy≤0.5%				
Current acquisition accuracy	Detection accuracy≤1% (0.5C charging/discharging)				
Anti-theft function	Software anti-theft, communication anti-theft, gyroscope anti-theft and other functions are optional				

EMBEDDED SERIES-4/4.5U

CF48100T / CF48150T



- Good performance in high-temperature environments**
Natural cooling at ambient temperature <50°C, saving energy
- Intelligent Protection**
With voltage, current and temperature intelligent protection functions
- Service life**
25°C, 1500times @0.5C
- Easy for operation and maintenance**
Integrated BMS design, battery supports SOC self-management, SOH management and other functions
- Anti-theft function**
Software anti-theft, communication anti-theft, gyroscope anti-theft and other functions are optional

MODEL	CF48100T		CF48150T
Connection Method	1P15S	1P16S	1P15S
Rated Energy	4800Wh	5120Wh	7200Wh
Rated Capacity	100Ah	100Ah	150Ah
Rated Voltage	48V	51.2V	48V
Voltage Range	42~52.5V	43.2~56.8V	42~52.5V
Charging Current	50A	50A	75A
Discharge Current	100A	100A	150A
Operating Temperature	charge: 0~50°C; discharge: -20~55°C; Storage: -30~45°C		
Self-discharging Rate	≤3% (0~30°C/3 months)		
Size	440*420*176mm		440*525*130mm
Weight	44Kg	46Kg	66Kg
Communication interface	RS485/RS232/CAN		
Charging current Limit function	With the function of automatically entering the current-limiting charging mode when detecting the battery cell: low voltage, high voltage, low temperature, high temperature, poor consistency, charging over-current protection		
Voltage acquisition accuracy	0~5V, Detection accuracy≤10mV; 0~60V Detection accuracy≤0.5%		
Current acquisition accuracy	Detection accuracy≤1% (0.5C charging/discharging)		
Anti-theft function	Software anti-theft, communication anti-theft, gyroscope anti-theft and other functions are optional		

ALL IN ONE SERIES

CF4820Y / CF4850Y



- No Need Space**
Various installations of hanging poles/walls/towers Saving space
- Rapid Deployment**
In 1 hour installation Installation time saved by 80%
- Higher Security**
P65 dustproof and waterproof integrated outdoor anti-thunder protection
- Maintenance Free**
Fanless design, natural heat dissipation Outdoor environment adaptation, no daily maintenance during the life cycle
- Widely Temperature Range**
The operating temperature ranges from -40 °C to +55 °C

MODEL	CF4820Y		CF4850Y	
Connection Method	1P15S	1P16S	1P15S	1P16S
Rated Energy	960Wh	1024Wh	2400Wh	7680Wh
Rated Capacity	20Ah	20Ah	50Ah	150Ah
Rated Voltage	48V	51.2V	48V	51.2V
Voltage Range	42~52.5V	43.2~56.8V	42~52.5V	43.2~56.8V
Charging Current	20A	20A	50A	75A
Discharge Current	20A	20A	50A	150A
Operating Temperature	charge: 0~50°C; discharge: -20~55°C; Storage: -30~45°C			
Self-discharging Rate	≤3% (0~30°C/3 months)			
Size	400*120*290mm		420*300*190mm	
Weight	13.5Kg	14Kg	29Kg	30Kg
Life Span	3000times @80%DOD, 0.5C/0.5C			
Communication interface	RS485/RS232/CAN			
Charging current Limit function	With the function of automatically entering the current-limiting charging mode when detecting the battery cell: low voltage, high voltage, low temperature, high temperature, poor consistency, charging over-current protection			
Voltage acquisition accuracy	0~5V, Detection accuracy≤10mV; 0~60V Detection accuracy≤0.5%			
Current acquisition accuracy	Detection accuracy≤1% (0.5C charging/discharging)			
Anti-theft function	Software anti-theft, communication anti-theft, gyroscope anti-theft and other functions are optional			

POWER SUPPLY SYSTEM CABINET



MODEL	POWER SUPPLY SYSTEM CABINET	
Solar energy input	Maximum DC power	15000W
	Optimum operating voltage	120Vdc
	Maximum Input Current	200A
	MPPT voltage range	60~150Vdc
	MPPT Number of traced paths	5
AC Input	Rated input voltage	220Vac
	Input Voltage Range	85~300Vac
	Input Frequency	50/60Hz
	Max input current limit	≤55A (Single phase)
	Power factor	>99%
Battery configuration	Battery voltage range	43.2~56Vdc
	Rated battery voltage	51.2Vdc
	Battery charge/discharge power	5120W(charge)/10240W(discharge)
	Max charge/discharge current	100A(charge)/200A(discharge)
	Communication method	RS485
DC output (3 channels)	Output DC voltage range	42~58Vdc
	Output DC voltage	54.0Vdc
	Output DC current	0~200A
	Output efficiency	≥96%Pure electric mode, ≥95%Pure solar mode
	Output AC voltage	220Vac±2%
Inverter AC output (1 channel)	Output frequency	50/60Hz±1
	Max output power	4500W
	Operating temperature	-10~+50℃
	Operating altitude	<2000m
	Storage temperature	-20~+60℃
Application environment	Relative humidity	5%~90%RH
	Noise	<30dB
	Size	750*750*1671.5mm
	IP Class	IP43
	Cooling Method	Temperature controlled heat dissipation
Mechanical appearance	Installation method	Install on ground
	Communication method	WIFI,RS458



DATA CENTER ENERGY PRODUCTS

Product series

- 5-15 mins series
- 30+ mins series
- 60+ mins series

DATA CENTER ENERGY STORAGE SERIES

5-15 mins series



- 1

Higher safety and stability lithium iron phosphate battery, no fire caused by thermal runaway
- 2

Pre installed battery system, modular standard design, rapid deployment on site, easy operation and maintenance
- 3

Long cycle life, 4000 times @0.5C/0.5C@80%DOD@25°C
- 4

Supporting HVDC, UPS system, and compatible with UPS system N line
- 5

Touch LCD to display various parameters, records and status visually
- 6

Support multiple groups in parallel, and support uninterrupted power maintenance when multiple clusters are used in parallel
- 7

Three-level BMS management, multi-level protection, automatic isolation in the event of anomalies, to ensure normal power supply to the system
- 8

High energy density, saving 70% compared to lead-acid battery
- 9

Optional non-electric self-starting cabinet-level fire protection system, accurate and rapid fire extinguishing
- 10

Natural heat dissipation design, saving energy

Parameters

MODEL	CF48040U	CF48050U	CF48060U	CF51240U	CF51250U	CF51260U
Cell Materials	LFP	LFP	LFP	LFP	LFP	LFP
Nominal voltage	480Vdc	480Vdc	480Vdc	512Vdc	512Vdc	512Vdc
Rated Charging Voltage	525Vdc	525Vdc	525Vdc	560Vdc	560Vdc	560Vdc
Nominal Capacity	40Ah/19.2kWh	50Ah/24kWh	60Ah/28.8kWh	40Ah/20.48kWh	50Ah/25.6kWh	60Ah/30.72kWh
Self-discharging rate	≤3% (0~30°C/3 mouths)					
Standard Discharging Current	40A constant discharging (1C)	50A constant discharging (1C)	60A constant discharging (1C)	40A constant discharging (1C)	50A constant discharging (1C)	60A constant discharging (1C)
Max Discharging Current	320A constant discharging (8C)	300A constant discharging (6C)	300A constant discharging (5C)	320A constant discharging (8C)	300A constant discharging (6C)	300A constant discharging (5C)
Standard Charging Current	20A (0.5C)	25A (0.5C)	30A (0.5C)	20A (0.5C)	25A (0.5C)	30A (0.5C)
Max Charging Current	40A (1C)	50A (1C)	60A (1C)	40A (1C)	50A (1C)	60A (1C)
CELL						
Nominal Capacity	40Ah	50Ah	60Ah	40Ah	50Ah	60Ah
Nominal voltage	3.2Vdc	3.2Vdc	3.2Vdc	3.2Vdc	3.2Vdc	3.2Vdc
Operating voltage range	2.5~3.6Vdc	2.5~3.6Vdc	2.5~3.6Vdc	2.5~3.6Vdc	2.5~3.6Vdc	2.5~3.6Vdc
Weight	1.345Kg	1.455Kg	1.675Kg	1.345Kg	1.45Kg	1.675Kg
BATTERY MODULE						
configuration	1P15S	1P15S	1P15S	1P16S	1P16S	1P16S
Nominal Capacity	40Ah	50Ah	60Ah	40Ah	50Ah	60Ah
Nominal voltage	48Vdc	48Vdc	48Vdc	51.2Vdc	51.2Vdc	51.2Vdc
Operating voltage range	42~52.5Vdc	42~52.5Vdc	42~52.5Vdc	44.8~56Vdc	44.8~56Vdc	44.8~56Vdc
Weight	28Kg	31Kg	35Kg	30Kg	33Kg	38Kg
BATTERY CLUSTERS						
configuration	1P150S	1P150S	1P150S	1P160S	1P160S	1P160S
Nominal Capacity	40Ah	50Ah	60Ah	40Ah	50Ah	60Ah
Nominal voltage	480Vdc	480Vdc	480Vdc	512Vdc	512Vdc	512Vdc
Operating voltage range	420~525Vdc	420~525Vdc	420~525Vdc	448~560Vdc	448~560Vdc	448~560Vdc
Weight	390Kg	430Kg	470Kg	410Kg	450Kg	490Kg

DATA CENTER ENERGY STORAGE SERIES

30+ mins series



- 1

Higher safety and stability lithium iron phosphate battery, no fire caused by thermal runaway
- 2

Pre installed battery system, modular standard design, rapid deployment on site, easy operation and maintenance
- 3

Long cycle life, 4000 times @0.5C/0.5C@80%DOD@25°C
- 4

Supporting HVDC, UPS system, and compatible with UPS system N line
- 5

Touch LCD to display various parameters, records and status visually
- 6

Support multiple groups in parallel, and support uninterrupted power maintenance when multiple clusters are used in parallel
- 7

Three-level BMS management, multi-level protection, automatic isolation in the event of anomalies, to ensure normal power supply to the system
- 8

High energy density, saving 70% compared to lead-acid battery
- 9

Optional non-electric self-starting cabinet-level fire protection system, accurate and rapid fire extinguishing
- 10

Natural heat dissipation design, saving energy

Parameters

MODEL	CF480100U
Cell Materials	LFP
Nominal voltage	480Vdc
Rated Charging Voltage	525Vdc
Nominal Capacity	100Ah/48kWh
Self-discharging rate	≤3% (0~30°C/3mouths)
Standard Discharging Current	100A constant discharging (1C)
Max Discharging Current	200A constant discharging (2C)
Standard Charging Current	25A (0.5C)
Max Charging Current	50A (1C)
CELL	
Nominal Capacity	100Ah
Nominal voltage	3.2Vdc
Operating voltage range	2.5~3.6Vdc
Weight	2.35Kg
BATTERY MODULE	
configuration	1P15S
Nominal Capacity	100Ah
Nominal voltage	48Vdc
Operating voltage range	42~52.5Vdc
Weight	50Kg
BATTERY CLUSTERS	
configuration	1P150S
Nominal Capacity	100Ah
Nominal voltage	480Vdc
Operating voltage range	420~525Vdc
Weight	610Kg

DATA CENTER ENERGY STORAGE SERIES

60+ mins series



- 1

Higher safety and stability lithium iron phosphate battery, no fire caused by thermal runaway
- 2

Pre installed battery system, modular standard design, rapid deployment on site, easy operation and maintenance
- 3

Long cycle life, 4000 times @0.5C/0.5C@80%DOD@25°C
- 4

Supporting HVDC, UPS system, and compatible with UPS system N line
- 5

Touch LCD to display various parameters, records and status visually
- 6

Support multiple groups in parallel, and support uninterrupted power maintenance when multiple clusters are used in parallel
- 7

Three-level BMS management, multi-level protection, automatic isolation in the event of anomalies, to ensure normal power supply to the system
- 8

High energy density, saving 70% compared to lead-acid battery
- 9

Optional non-electric self-starting cabinet-level fire protection system, accurate and rapid fire extinguishing
- 10

Natural heat dissipation design, saving energy

Parameters

MODEL	CF19250U	CF24050U	CF38450U	CF192100U	CF240100U	CF360100U	CF384100U
Cell Materials	LFP	LFP	LFP	LFP	LFP	LFP	LFP
Nominal voltage	192Vdc	240Vdc	384Vdc	192Vdc	240Vdc	360Vdc	384Vdc
Rated Charging Voltage	210Vdc	262.5Vdc	420Vdc	210Vdc	262.5Vdc	392Vdc	420Vdc
Nominal Capacity	50Ah/9.6kWh	50Ah/12kWh	50Ah/19.2kWh	100Ah/19.2kWh	100Ah/24kWh	100Ah/35.84kWh	100Ah/38.4kWh
Self-discharging rate	≤3% (0~30°C/3 months)						
Standard Discharging Current	25A constant discharging (0.5C)	25A constant discharging (0.5C)	25A constant discharging (0.5C)	50A constant discharging (0.5C)	25A constant discharging (0.5C)	50A constant discharging (0.5C)	50A constant discharging (0.5C)
Max Discharging Current	50A constant discharging (1C)	50A constant discharging (1C)	50A constant discharging (1C)	100A constant discharging (1C)	50A constant discharging (1C)	100A constant discharging (1C)	100A constant discharging (1C)
Standard Charging Current	12.5A (0.25C)	12.5A (0.25C)	12.5A (0.25C)	12.5A (0.25C)	25A (0.25C)	25A (0.25C)	25A (0.25C)
Max Charging Current	25A (0.5C)	25A (0.25C)	25A (0.25C)	25A (0.25C)	50A (0.25C)	50A (0.25C)	50A (0.25C)
CELL							
Nominal Capacity	50Ah	50Ah	50Ah	100Ah	100Ah	100Ah	100Ah
Nominal voltage	3.2Vdc	3.2Vdc	3.2Vdc	3.2Vdc	3.2Vdc	3.2Vdc	3.2Vdc
Operating voltage range	2.5-3.6Vdc	2.5-3.6Vdc	2.5-3.6Vdc	2.5-3.6Vdc	2.5-3.6Vdc	2.5-3.6Vdc	2.5-3.6Vdc
Weight	1.22Kg	1.22Kg	1.22Kg	2.35Kg	2.35Kg	2.35Kg	2.35Kg
BATTERY MODULE							
configuration	1P15S	1P15S	1P15S	1P15S	1P15S	1P15S	1P15S
Nominal Capacity	50Ah	50Ah	50Ah	100Ah	100Ah	100Ah	100Ah
Nominal voltage	48Vdc	48Vdc	48Vdc	48Vdc	48Vdc	44.8Vdc	48Vdc
Operating voltage range	42~52.5Vdc	42~52.5Vdc	42~52.5Vdc	42~52.5Vdc	42~52.5Vdc	39.2~49Vdc	42~52.5Vdc
Weight	26Kg	26Kg	26Kg	50Kg	50Kg	47Kg	50Kg
BATTERY CLUSTERS							
configuration	1P60S	1P75S	1P120S	1P60S	1P75S	1P112S	1P120S
Nominal Capacity	50Ah	50Ah	50Ah	100Ah	100Ah	100Ah	100Ah
Nominal voltage	192Vdc	240Vdc	384Vdc	192Vdc	240Vdc	358.4Vdc	384Vdc
Operating voltage range	168~210Vdc	210~262.5Vdc	336~420Vdc	168~210Vdc	210~262.5Vdc	313.6~392Vdc	336~420Vdc
Weight	170Kg	210Kg	320Kg	310Kg	360Kg	490Kg	510Kg

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
ENERGERY 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
System parameters	Maximum charging current	50A*2
	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
	Rated input frequency	50Hz	50Hz
AC off-grid parameter	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
	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	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
	Rated input frequency	50/60Hz	50/60Hz
Battery parameters	Battery Type	LFP	LFP
	Rated capacity	372kWh	417kWh
	Nominal voltage	1331.2V	1331.2V
	Operating voltage range	1164.8~1456V	1164.8~1456V
	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	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

Double Circuit 250kW/500kWh 500kW/1.066MWh、 630kW/1.279MWh

INDUSTRIAL AND COMMERCIAL
ENERGY STORAGE



Modular Standard
Design



Multiple Protection
Systems



Efficient Installation
and Commissioning
of AC/DC Integrated Systems



Intelligent Operation
and Maintenance

PARAMETERS/ MODEL		Double Circuit 250kW/500kWh	500kW/1.066MWh	630kW/1.279MWh
Battery Module	Cell Capacity	280Ah	280Ah	314Ah
	Module Voltage	44.8V	44.8V	44.8V
	Module Power	12.54kWh	12.54kWh	12.54kWh
	Size	420*645*235mm	420*645*235mm	420*645*235mm
Battery cluster	NOs.of Modules	14pcs	17pcs	17pcs
	Cluster Nominal Voltage	627.2V	761.6V	761.6V
	Voltage Range	548.8~695.8V	666.4~844.9V	666.4~844.9V
	Single Cluster Power	175.61kWh	213.24kWh	213.24kWh
	Battery Rack Dimension	1050*645*2090mm	1050*645*2090mm	1050*645*2090mm
Battery Cabin	Nos. of Battery Clusters	6pcs	5pcs	6pcs
	Battery system energy	250kW	500kW	630kW
	Battery Cabin Dimension	20-foot Standard Shipping Container		
	Cooling Method	Liquid cooling	Liquid cooling	Liquid cooling
	IP Class	IP54	IP54	IP54

DATA SERVICE PLATFORM



Condition Diagnosis



Battery Performance/Health Status Assessment, Real-time Battery Safety Diagnosis, Battery Degradation, Cycle Life Prediction, Equipment Operation Status Diagnosis, System Operational Efficiency Evaluation, Economic Diagnosis and Analysis

Energy Management



Local Energy Autonomy Management, Ancillary Services, Electricity Trading

Data Management



Real-time Data Monitoring, Display of Data Reports, Information Push, Preset Strategy Deployment, Collaborative Fault Analysis, Trend Analysis

Intelligent Operation and Maintenance



Electrical Equipment Inspection, Diagnosis, Offline Operation and Maintenance Work Orders Pushed by Battery System Operation and Maintenance Strategy, Evaluation

A brand-new platform based on microservices architecture, with multi-tenant management capabilities Implementing the data flow closed loop of the light storage and charging system from data access to data monitoring, data mining, and data push, realizing the value mining and empowerment of data, and improving the operational efficiency of the system.

NETWORK ENERGY PROJECT CASE



Indian Reliance AG3 large base station project

Application scenario	Database center
Project location	India



Korean KT base station project

Application scenario	Communication base station
Project location	Korea



Russian 48V12000Ah 80P project

Application scenario	Communication base station
Project location	Russia



Korea Telecom 5G base station alternative power project

Application scenario	Communication base station
Project location	Korea



Cambodia Metpone base station project

Application scenario	Communication base station
Project location	Cambodia



Micro base station project of China Tower in Hunan province

Application scenario	Communication base station
Project location	Hunan

NETWORK ENERGY
PROJECT CASE



China Unicom Shanxi data center project

Application scenario	Database center
Project location	Shanxi



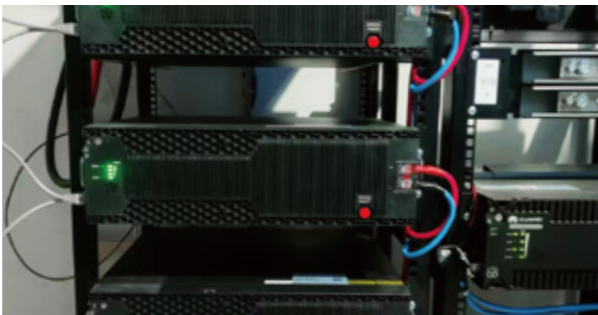
China Mobile Heilongjiang 5G base station alternative power project

Application scenario	Communication base station
Project location	Heilongjiang



5G micro base station integrated project of China Mobile in Changde, Hunan province

Application scenario	Communication base station
Project location	Hunan



Intelligent lithium battery project of China Tower in Xiamen, Fujian province

Application scenario	Communication base station
Project location	Fujian



Intelligent lithium battery base station expansion project of China Tower in Jinhua, Zhejiang

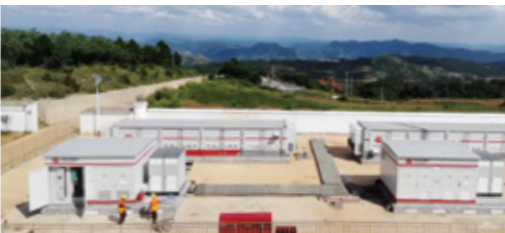
Application scenario	Communication base station
Project location	Zhejiang



Communication base station power backup project of China Mobile in Huanggang, Hubei province

Application scenario	Communication base station
Project location	Hubei

ELECTRIC ENERGY STORAGE
PROJECT CASE



[Universal] Weining Guizhou 80MW/160MWh wind power storage project

Project time	2023.10
Project location	Weining,Guizhou



[High wind and sand] Wuqia Xinjiang 50MW/200MWh wind power storage project

Project time	2023.10
Project location	Wuqia,Xinjiang

ELECTRIC ENERGY STORAGE
PROJECT CASE



[High wind and sand] Zhongwei Ningxia 100MW/200MWh photovoltaic composite project	
Project time	2023.09
Project location	Zhongwei,Ningxia



[High wind and sand] Linze Gansu 40MW/80MWh photovoltaic sand control and energy storage project	
Project time	2022.12
Project location	Linze,Gansu

ELECTRIC ENERGY STORAGE
PROJECT CASE



[High wind and sand] Minle Gansu 10MW/20MWh photovoltaic power generation and energy storage project	
Project time	2022.11
Project location	Zhangye,Gansu



[Universal] Xiantao Hubei 57.5MW/115MWh fishery and photovoltaic complementary power generation project	
Project time	2022.10
Project location	Xiantao,Hubei

COOPERATIVE
CUSTOMERS

 国家电网 STATE GRID	 中国移动 China Mobile	 China unicom中国联通	 中国电信 CHINA TELECOM 世界触手可及
 CHINA TOWER 中国铁塔	 HUAWEI	 ZTE中兴	 SGIT 国网信通产业集团 STATE GRID INFO & TELECOM GROUP
 中广核 CGN	 CHANGHONG 长虹	 Reliance Industries Limited	 FiberHome
 动力源	 Vodafone	 Булаўн®	 AMERICAN TOWER®
 ERICSSON	 Schneider Electric 施耐德电气	 VERTIV 维谛技术	 MTC
 TATA	 Idea	 airtel	 EMERSON
 VIETTEL Hãy nói theo cách của bạn	 kt	...	

AFTER-SALES
SERVICE



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

