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LEOCH LITHIUM PRODUCT & SOLUTIONS

Provide Reliable and
Innovative Power Supply

www.leochlithium.com

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Global Leading Power Solutions Provider



Company Profile

Founded in 1999, LEOCH BATTERY (stock code: 00842.HK) is a leading provider of advanced battery power & energy management solutions, delivering reliable & efficient energy to industries, data centers, cities and infrastructure across the world.

Headquartered in Singapore, we operate 21 state-of-the-art manufacturing facilities and maintain a global network of 80+ service companies, serving clients in over 150 countries. Our team of 15,000 professionals, including 1,500+ R&D and technical experts, drives innovation and ensures the highest standards of quality and reliability.

Expertise in Battery Power & Smart Energy Solutions

At LEOCH, we deliver quality power solutions built to perform across industrial and commercial applications. Our expertise includes:

Battery Energy Storage Systems (BESS): Industrial, commercial, residential, grid-side, and renewable energy solutions.

Telecom & Data Centre Backup Power Solutions: Reliable & quality power for mission-critical network power, UPS and AI data center power applications.

Automotive Power Solutions: Start-stop, lighting and ignition batteries for ICE & EV cars, motorcycles, etc.

Motive Power Solutions: Golf cart, bicycle & tricycle, material handling and forklifts.

Battery Recycling: Sustainable recycling solutions for a greener future.

At LEOCH BATTERY, we are committed to innovation, reliability, and sustainability, ensuring that our clients and partners across the globe receive reliable and efficient power and smart energy solutions.

 **1500+**
R&D Staff

 **20+**
Years of Industrial Experience

 **8**
R&D Centers

 **60+**
Standard Settings

 **1000+**
Patents

Large scale automated production line

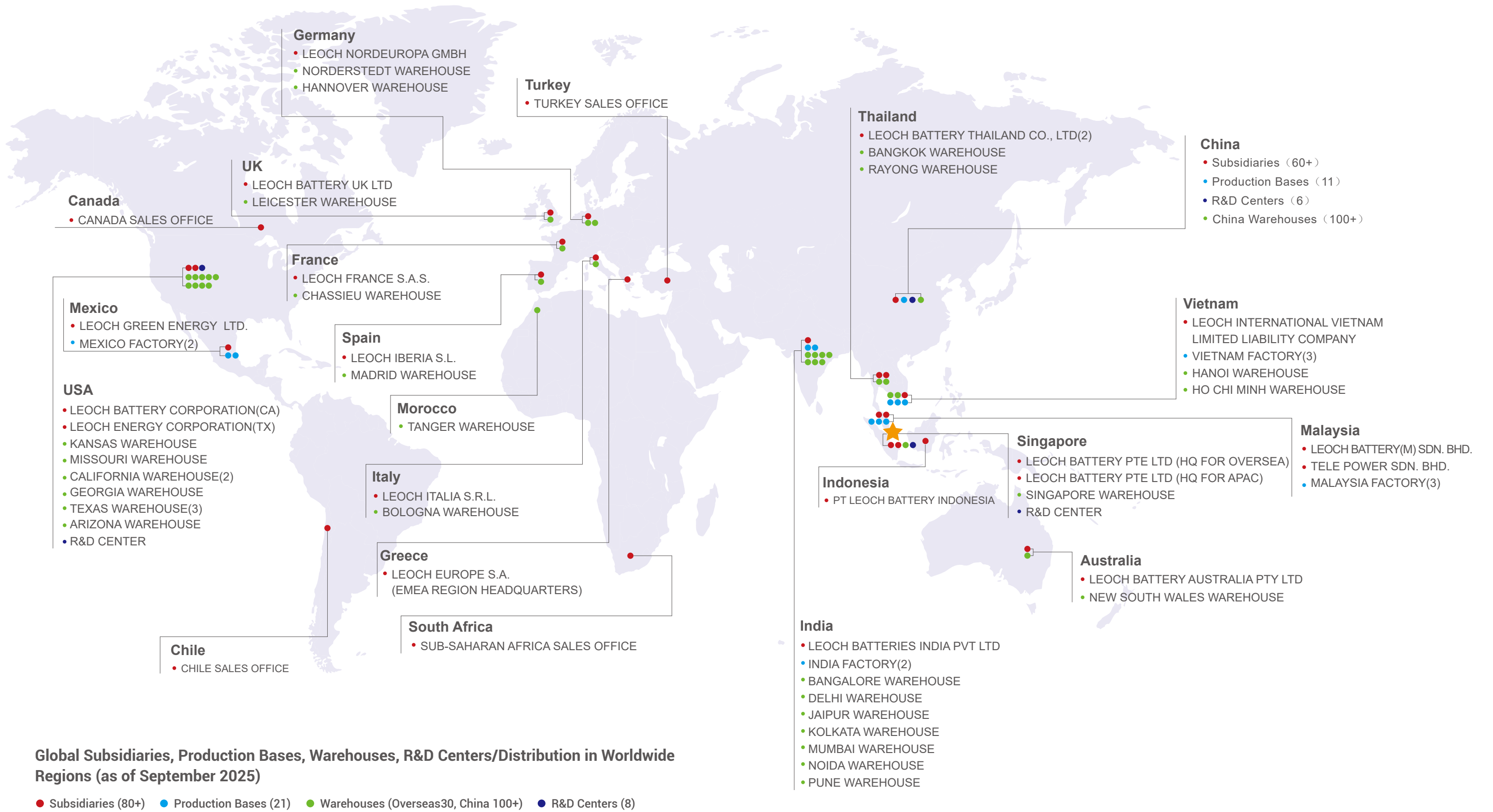


Leoch manufacturing team has experience in large-scale lithium battery manufacturing and the ability of long-term stable product delivery. The company's lithium battery production line has achieved a high degree of automation and intelligence in production. By introducing a new EMS intelligent system and integrating data acquisition channels (RFID, PLC, IPC, PC, etc.) to cover the entire factory manufacturing site, it can ensure real-time, accurate, and comprehensive collection of big data, multi-dimensional protection of product stability, consistency, service, which helps customers establish safe and reliable energy storage systems.

Test Center

Since its establishment, Leoch testing and verification center has been operating strictly accordance with the requirements of CNAS. It has industry-leading testing and verification equipments and a high-level tester team, and has professional testing and verification capabilities for lithium battery products, including material testing, performance testing, and safety and reliability testing, which is able to ensure the quality of battery products is safe and reliable.

Leoch Global Network





Product Series:

48V Communication Lithium Battery

48V Intelligent Lithium Battery

48V GPS Communication Lithium Battery

Telecom Power Solutions

Leoch manufactures a wide range of Lithium Network Power Batteries to cover any telecommunications requirement. Aiming to deliver an unprecedented value to your needs, these solutions offer exceptional performance, long life, high energy density, ease of installation, and hassle-free operation for a broad spectrum of telecom applications.



High Energy
Density



6000cycles at
80%DOD



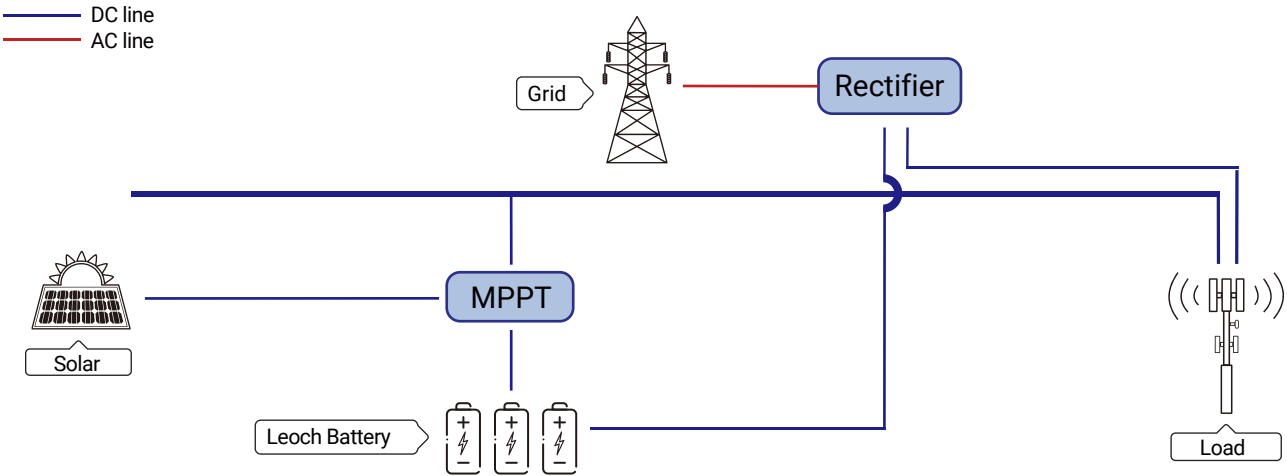
Excellent high-temperature
performance



Outdoor airport
station



Communication
room



Telecom Battery



High Energy
Density



Easy To Install
And Upgrade



Remote Control
And Diagnosis



15 Years Life
Time Design

Product Feature

- More reliable and safety**
 - Support gyroscope anti-theft
- Advanced monitoring control**
 - Optimized monitoring strategy through remote control and diagnosis
- Wide working temperature**
 - Excellent high-temperature performance with a working environment temperature of -20-60 Celsius degrees
- Easy operation**
 - Friendly human-machine interface for easy operation
- More compatible to monitoring system**
 - Support RS232 and RS485 communication to be connected to the power environment monitoring system

Telecom Battery



Model	LFELI-4850	LFELI-48100	LFELI-48150	LFELI-48200
Rated Capacity(@25°C, 0.2C)	50Ah	100Ah	150Ah	200Ah
Nominal Voltage	48V	48V	48V	48V
Discharge Ending Voltage	40.5V	40.5V	40.5V	40.5V
Recom.average charging voltage/ float charging voltage	54/51.75	54/51.75	54/51.75	54/51.75
Max. Charging Current	50A	100A	100A	100A
Max. Continue Discharging Current	50A	100A	100A	100A
Weight	Approx. 26Kg	Approx. 40Kg	Approx. 59Kg	Approx.80Kg
Display	Yes	Yes	Yes	Yes
Max Parallel Quantity	15	15	15	15
Dimensions (W*D*H) mm	442 * 442 * 132	442 * 450 * 132	442*520*198	442 * 520 * 244
Containing Cell	3.2V 50Ah	3.2V 100Ah	3.2V 150Ah	3.2V 200Ah
Design Life	≥15 years			
Cycle Life	6000 cycles			
IP Class	IP30			
Outer Package Material	SPCC			
Temp Range	Charging: 0°C ~55°C Discharging: -20°C ~60°C Storage: -20°C ~60°C			
Recom. Temp. Range	Charging: 15°C ~35°C Discharging: 15°C ~35°C Storage: -10°C ~35°C			

48V Intelligent Telecom Battery



Outstanding Compatibility
To Battery And Dc Power



Data Transmission And
TV Signal Transmission



Bureaus (stations),
Switching Stations



Emergency Power Supply
Wired Communication

Product Feature

- **Outstanding compatibility to battery and DC power**
 - Compatible with existing DC power system and mixed batteries

- **Auxiliary power supply**
 - Save the expansion costs for base station

- **Boost power supply**
 - Compensating for the drop voltage and reducing the investment cost for booster

- **Up to 32 groups in parallel connection**
 - Expandable battery capacity to cater for different level demand

48V Intelligent Telecom Battery



Model	LFELI-48100ZN	LFELI-48150ZN
Rated Capacity(@25°C, 0.2C)	100Ah	150Ah
Nominal Voltage	48V	48V
Discharge Ending Voltage	40.5V	40.5V
Recom.average charging voltage/ float charging voltage	54/51.75	54/51.75
Max. Charging Current	100A	100A
Max. Continue Discharging Current	100A	100A
Weight	Approx. 40.5Kg	Approx. 60Kg
Display	No	
Max Parallel Quantity	15	
Dimensions (W*D*H) mm	442 * 450* 133	442 * 560* 133
Containing Cell	3.2V 100Ah	3.2V 150Ah
Design Life	≥15 years	
Cycle Life	6000 cycles	
IP Class	IP30	
Outer Package Material	SPCC(Aluminum Alloy panel)	
Temp Range	Charging: 0°C ~55°C Discharging: -20°C ~60°C Storage: -20°C ~60°C	
Recom. Temp. Range	Charging: 15°C ~35°C Discharging: 15°C ~35°C Storage: -10°C ~35°C	

48V GPS Telecom Battery



Field Base
Stations



Data Transmission And
Tv Signal Transmission



Bureaus (Stations)
Switching Stations



Emergency Power Supply
Wired Communication

Product Feature



Real-time monitoring and detection by GPS



Abnormal battery status indication



History footprint track and playback



Maintenance by nearby staff to improve
the service efficiency

48V GPS Telecom Battery



Model	LFELI-48100 G	LFELI-48150 G	LFELI-48200 G
Rated Capacity(@25°C, 0.2C)	100Ah	150Ah	200Ah
Nominal Voltage	48V	48V	48V
Discharge Ending Voltage	40.5V	40.5V	40.5V
Recom.average charging voltage/ float charging voltage	54/51.75	54/51.75	54/51.75
Max. Charging Current	100A	100A	100A
Max. Continue Discharging Current	100A	100A	100A
Weight	Approx. 40.5Kg	Approx. 59Kg	Approx. 77Kg
Display	Yes		
Max Parallel Quantity	15		
Dimensions (W*D*H) mm	442 * 450 * 132	442 * 550 * 177	442 * 520 * 244
Anti-theft Feature	T-Sensor & GPS		
Cell	3.2V 100Ah	3.2V 150Ah	3.2V 200Ah
Design life	≥15 years		
Cycle Life	6000 cycles		
IP Class	IP30		
Outer Package Material	SPCC		
Temp Range	Charging: 0°C ~55°C Discharging: -20°C ~60°C Storage: -20°C ~60°C		
Recom. Temp. Range	Charging: 15°C ~35°C Discharging: 15°C ~35°C Storage: -10°C ~35°C		



Product Series:

PU Short-time Backup Power Series

BU Long-time Backup Power Series

DU DC Power Panel Backup Power Series

UPS & DATA Center Solutions

In the ICT and industrial sectors, LEOCH offers modular lithium battery products. Using high-performance LFP unit, high-precision three-level BMS, vertical and horizontal grid software control management, dual fire prevention, prevention and elimination combination, to meet customer needs. The system is easy to install, safe and reliable, small footprint, long service life and so on. Can significantly improve the customer experience.



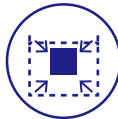
High Safety and Stability

No fire when thermal runaway



High Unit Discharge Power

It can meet the backup power requirements of more than 3Mins



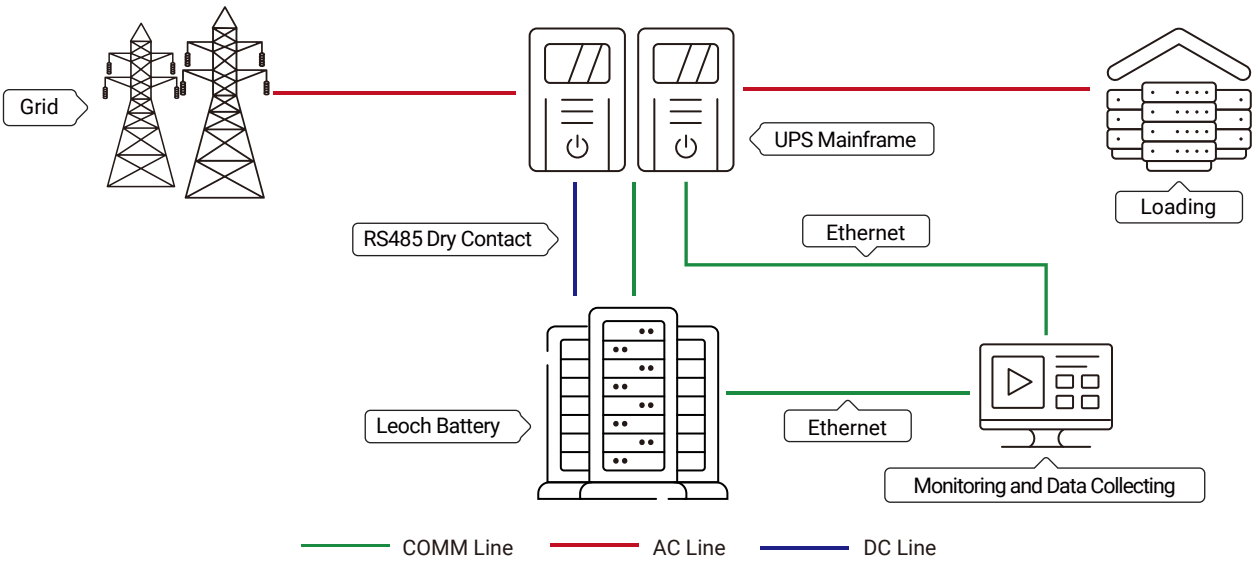
High Energy Density

The occupation area is 70% less than lead acid battery.



Three-Level BMS management

The system can provide power normally



PU Short-time Backup Power Series(5min)

PU80/PU160



Safety and Reliability

Safe high-energy-density LFP batteries



High Compatibility

Replace lead-acid batteries without replacing the UPS



Modular Design

Adopt modular design for convenient installation and maintenance



Intelligent Monitoring

Three-level BMS management system for real-time battery status monitoring

Product Feature

 Flexible Configuration

- Adaptable to various voltage levels, supporting multi-unit parallel expansion

 Fire Protection System

- Pack-level + cabinet-level fire protection system (optional)

 Intelligent Operation and Maintenance

- Smart display screen for data presentation and statistics, providing clear insights into battery operation

 Short-Duration Power Backup

- High-rate discharge, suitable for 5-minute power backup scenarios

PU Short-time Backup Power Series(5min)



Item						
Model	PU384V80	PU448V80	PU512V80	PU384V160	PU448V160	PU512V160
Nominal Voltage/V	384	448	512	384	448	512
Nominal Capacity/Ah	80			160		
Nominal Energy/kWh	30.7	35.8	40.9	61.4	71.6	81.9
Cell Type	LFP					
Dimensions(W*D*H)/mm	600*1000*2200					
Weight/kg	640	690	740	1000	1100	1250
Max Output Power	213.75kW@5min	249.37kW@5min	285kW@5min	427.5kW@5min	498.75kW@5min	570kW@5min
Operate Voltage Range/V	336~414	392~483	448~552	336~414	392~483	448~552
Max Charge Current/A	80			160		
Operate Temperature	Charge: 5~45°C, Discharge: -15~50°C, Storage: -10~45°C					
Operate Humidity	5-95%RH					
Thermal Management	Nature Cooling					
Max number of parallel units	15					
Fire Protection	Pack-level + cabinet-level fire protection, Optional					
Communication	RS485, TCP, CAN, Dry contact					
Certificate	UN38.3, RoHS, REACH, EMC, UL9540A, UL1973					

* The Company reserves the right to revise technical specifications and performance parameters of the Product as necessary.

PU Short-time Backup Power Series(15min)

PU50/PU100



Safety and Reliability
Safe high-energy-density LFP batteries



High Compatibility
Replace lead-acid batteries without replacing the UPS



Modular Design
Adopt modular design for convenient installation and maintenance



Intelligent Monitoring
Three-level BMS management system for real-time battery status monitoring

Product Feature

Flexible Configuration

- Adaptable to various voltage levels, supporting multi-unit parallel expansion

Fire Protection System

- Pack-level + cabinet-level fire protection system (optional)

Intelligent Operation and Maintenance

- Smart display screen for data presentation and statistics, providing clear insights into battery operation

Short-Duration Power Backup

- High-rate discharge, suitable for 15-minute power backup scenarios

PU Short-time Backup Power Series(15min)



PU50 Series								
Model	PU204V50	PU256V50	PU307V50	PU358V50	PU409V50	PU460V50	PU512V50	PU614V50
Nominal Voltage/V	204.8	256	307.2	358.4	409.6	460.8	512	614.4
Nominal Capacity/Ah	50							
Nominal Energy/kWh	10.24	12.8	15.36	17.92	20.48	23.04	25.6	30.72
Cell Type	LFP							
Dimensions(W*D*H)/mm	600*1000*1165		600*1000*1500			600*1000*2000		
Weight/kg	250	285	350	385	420	515	550	625
Max Output Power	40kW @15min	50kW @15min	60kW @15min	70kW @15min	80kW @15min	90kW @15min	100kW @15min	120kW @15min
Operate Voltage Range/V	179~220	224~276	268~331	313~386	358~441	403~496	448~552	537~662
Max Charge Current/A	50							
Operate Temperature	Charge: 0~45°C, Discharge: -20~65°C, Storage: -5~35°C							
Operate Humidity	5-95%RH							
Thermal Management	Air cooling							
Max number of parallel units	15							
Fire Protection	Pack-level + cabinet-level fire protection, Optional							
Communication	RS485, TCP, CAN, Dry contact							
Certificate	UN38.3, EMC, REACH, ROHS							

PU100 Series							
Model	PU204V100	PU256V100	PU307V100	PU358V100	PU409V100	PU460V100	PU512V100
Nominal Voltage/V	204.8	256	307.2	358.4	409.6	460.8	512
Nominal Capacity/Ah	100						
Nominal Energy/kWh	20.48	25.6	30.72	35.84	40.96	46.08	51.2
Cell Type	LFP						
Dimensions(W*D*H)/mm	600*1000*1200		600*1000*1500			600*1000*2000	
Weight/kg	379	417	471	510	563	600	655
Max Output Power	74.4kW @15min	93kW @15min	111.6kW @15min	130.2kW @15min	148.8kW @15min	167.4kW @15min	186kW @15min
Operate Voltage Range/V	179~220	224~276	268~331	313~386	358~441	403~496	448~552
Max Charge Current/A	100						
Operate Temperature	Charge: 0~45°C, Discharge: -20~65°C, Storage: -5~45°C						
Operate Humidity	5-95%RH						
Thermal Management	Air cooling						
Max number of parallel units	15						
Fire Protection	Pack-level + cabinet-level fire protection, Optional						
Communication	RS485, TCP, CAN, Dry contact						
Certificate	UN38.3, RoHS, REACH, EMC						

* The Company reserves the right to revise technical specifications and performance parameters of the Product as necessary.

BU Long-time Backup Power Series



Safety and Reliability

Safe high-energy-density LFP batteries



High Compatibility

Replace lead-acid batteries without replacing the UPS



Modular Design

Adopt modular design for convenient installation and maintenance



Intelligent Monitoring

Three-level BMS management system for real-time battery status monitoring

Product Feature

Flexible Configuration

- Adaptable to various voltage levels, supporting multi-unit parallel expansion

Fire Protection System

- Pack-level + cabinet-level fire protection system (optional)

Intelligent Operation and Maintenance

- Smart display screen for data presentation and statistics, providing clear insights into battery operation

Abundant energy

- Seamless switching to ensure uninterrupted power supply for critical loads

BU Long-time Backup Power Series



BU100 Series

Model	BU256V100	BU307V100	BU358V100	BU409V100	BU460V100	BU512V100	BU563V100	BU614V100	BU665V100	BU716V100	BU768V100
Nominal Voltage/V	256	307.2	358.4	409.6	460.8	512	563.2	614.4	665.6	716.8	768
Nominal Capacity/Ah	100										
Nominal Energy/kWh	25.6	30.72	35.84	40.96	46.08	51.2	56.32	61.44	66.56	71.68	76.8
Cell Type	LFP										
Dimensions(W*D*H)/mm	600*1000*1165	600*1000*1500		600*1000*2000				600*1000*2300		1150*1000*1500	
Weight/kg	340	390	430	545	590	640	685	730	780	824	940
Max Output Power	49KW @30min	58.8KW @30min	68.6KW @30min	78.4KW @30min	88.2KW @30min	98KW @30min	107.8KW @30min	117.6KW @30min	127.4KW @30min	137.2KW @30min	147KW @30min
Operate Voltage Range/V	224~276	268~331	313~386	358~441	403~496	448~552	492~607	537~662	582~717	627~772	672~828
Max Charge Current/A	100										
Operate Temperature	Charge: 0~45°C, Discharge: -20~65°C, Storage: -5~35°C										
Operate Humidity	5-95%RH										
Thermal Management	Air cooling										
Max number of parallel units	15										
Fire Protection	Pack-level + cabinet-level fire protection, Optional										
Communication	RS485, TCP, CAN, Dry contact										

BU200 Series

Model	BU256V200	BU307V200	BU358V200	BU409V200	BU460V200	BU512V200	BU563V200	BU614V200	BU665V200	BU716V200
Nominal Voltage/V	256	307.2	358.4	409.6	460.8	512	563.2	614.4	665.6	716.8
Nominal Capacity/Ah	200									
Nominal Energy/kWh	51.2	61.44	71.68	81.92	92.16	102.4	112.6	122.8	133.1	143.3
Cell Type	LFP									
Dimensions(W*D*H)/mm	600*1000*1165	600*1000*1500		600*1000*2000				600*1000*2300		
Weight/kg	545	680	760	890	970	1050	1130	1210	1290	1370
Max Output Power	50kW @60min	60kW @60min	70.9kW @60min	81kW @60min	91.17kW @60min	101.3kW @60min	111.4kW @60min	121.5kW @60min	131.7kW @60min	141.8kW @60min
Operate Voltage Range/V	224~276	268~331	313~386	358~441	403~496	448~552	492~607	537~662	582~717	627~772
Max Charge Current/A	100									
Operate Temperature	Charge: 0~45°C, Discharge: -20~65°C, Storage: -5~35°C									
Operate Humidity	5-95%RH									
Thermal Management	Air cooling									
Max number of parallel units	15									
Fire Protection	Pack-level + cabinet-level fire protection, Optional									
Communication	RS485, TCP, CAN, Dry contact									

* The Company reserves the right to revise technical specifications and performance parameters of the Product as necessary.

DU DC Power Panel Backup Power Series



Safety and Reliability
Safe high-energy-density
LFP batteries



High Compatibility
Replace lead-acid batteries
without replacing the UPS



Modular Design
Adopt modular design for convenient
installation and maintenance



Intelligent Monitoring
Three-level BMS management system
for real-time battery status monitoring

Product Feature

Flexible Configuration

- Adaptable to various voltage levels, supporting multi-unit parallel expansion

Fire Protection System

- Pack-level + cabinet-level fire protection system (optional)

Abundant energy

- Seamless switching to ensure uninterrupted power supply for critical loads

DU DC Power Panel Backup Power Series



Item								
Model	DU115V50	DU115V100	DU115V150	DU115V200	DU230V50	DU230V100	DU230V150	DU230V200
Nominal Voltage/V	115.2				230.4			
Nominal Capacity/Ah	50	100	150	200	50	100	150	200
Nominal Energy/kWh	5.76	11.52	17.28	23.04	11.52	23.04	34.56	46.08
Cell Type	LFP							
Dimensions(W*D*H)/mm	800*600*2260							
Weight/kg	240	285	320	375	300	380	440	570
Max Output Power	5.76kW @60min	11.52kW @60min	17.28kW @60min	23.04kW @60min	11.52kW @60min	23.04kW @60min	34.56kW @60min	46.08kW @60min
Operate Voltage Range/V	100.8~124.2				201.6~248.4			
Operate Temperature	Charge: 0~55°C, Discharge: -10~60°C, Storage: 5~35°C							
Operate Humidity	5-95%RH							
Thermal Management	Natural cooling							
Max number of parallel units	15							
Fire Protection	Pack-level, Optional							
Communication	RS485, CAN, Dry contact							

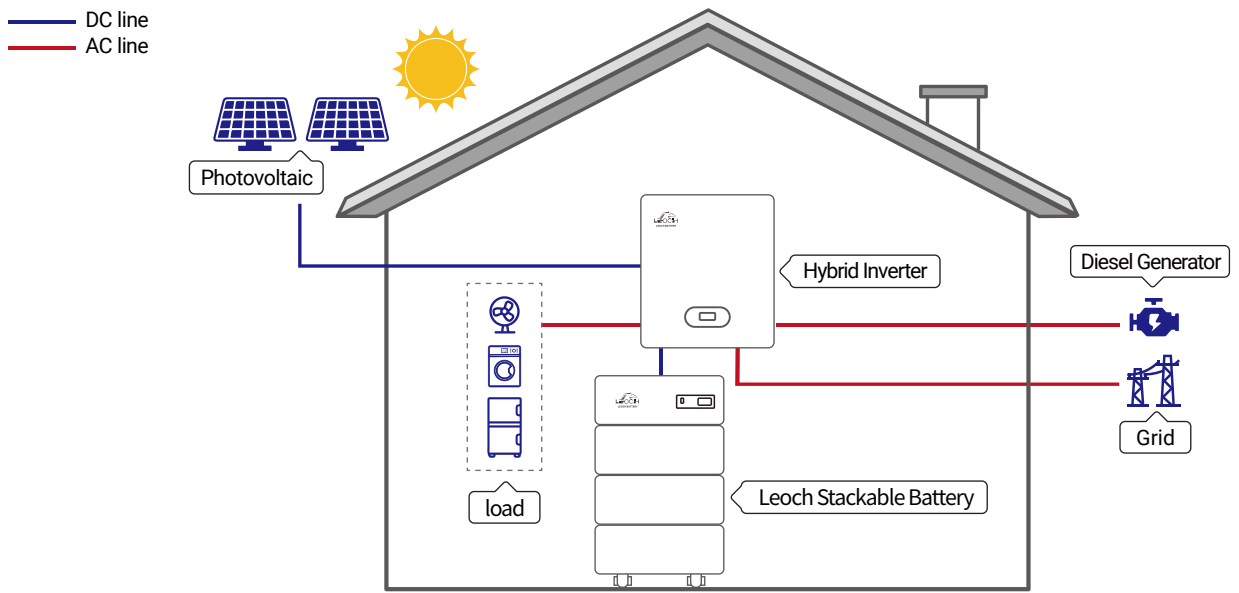
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Residential Energy Storage Solutions

With the deepening of the low-carbon concept and the improvement of the economic benefits of energy storage; Residential energy storage systems are increasingly widely used. Based on a thorough understanding of market and industry trends, Leoch has developed household energy storage products that can flexibly adapt to multiple scenarios, making it easier and more efficient for users to use electricity.

-  High-end villas
-  Residential areas
-  Nomadic farms
-  Communication base stations



Residential Energy Storage Battery (Rack-mounted)



Compact Size
Minimum the footprint



Eco-Friendly
Clean energy



Long Lifespan
Sustainable long cycles



Built-in BMS
Charge & discharge protection

Product Introduction

- Up to 15 groups of parallel connections, flexible capacity expansion
- LED display for voltage, current, temperature, convenient for users to query

- Compatible with mainstream inverters in the market, providing more options
- Built-in BMS provides multiple protection functions

Residential Energy Storage Battery (Rack-mounted)



Item	Parameters	
Model	LR24-100	LR24-200
Rated Capacity (5HR)	100Ah	200Ah
Nominal Voltage	25.6V	25.6V
Discharge Ending Voltage	21.6V	21.6V
Charging Limited Voltage	28.8V	28.8V
Max. Charging Current	100A	100A
Max. Continue Discharging Curren	100A	100A
Weight	Approx. 26 Kg	Approx. 43 Kg
Display	LCD Display	LCD Display
Protocol	RS485, RS232, CAN	RS485, RS232, CAN
Parallel Connection	Up to 15 units	Up to 15 units
Dimensions (W*D*H) mm	442 * 350 * 177	442 * 450 * 177
Cell	3.2V 100Ah	3.2V 100Ah
Design life	More than 15 years	
Cycle Life	More than 6000 cycles @ 80% DOD	
IP Class	IP31	
Outer Package Materia	SPCC	
Operating Temperature	Charging: 0 to +45°C Discharging: -10 to +55°C Storage: -20 to +60°C	

Residential Energy Storage Battery (Rack-mounted)



Compact Size
Minimum the footprint



Eco-Friendly
Clean energy



Long Lifespan
Sustainable long cycles



Built-in BMS
Charge & discharge protection

Product Introduction

 Up to 15 groups of parallel connections, flexible capacity expansion

 Compatible with mainstream inverters in the market, providing more options

 LED display for voltage, current, temperature, convenient for users to query

 Built-in BMS provides multiple protection functions

Residential Energy Storage Battery (Rack-mounted)



Item	Parameters				
Model	LR51.2-50	LR51.2-100	LR51.2-150	LR51.2-200	*LR51.2-200-A
Rated Capacity (5HR)	50Ah	100Ah	150Ah	200Ah	200Ah
Nominal Voltage	51.2 V	51.2 V	51.2 V	51.2 V	51.2 V
Discharge Ending Voltage	43.2 V	43.2 V	43.2 V	43.2 V	43.2 V
Charging Limited Voltage	57.6 V	57.6 V	57.6 V	57.6 V	57.6 V
Max. Charging Current	50 A	100 A	100 A	150 A	150 A
Max. Continue Discharging Curren	50 A	100 A	100 A	150 A	150 A
Weight	Approx. 28 Kg	Approx. 43 Kg	Approx. 64 Kg	Approx. 82 Kg	Approx. 83.6 Kg
Display	LCD Display				
Protocol	RS485, RS232, CAN				
Parallel Connection	Up to 15 units				
Dimensions (W*D*H) mm	442 * 442 * 132	442 * 431 * 177	442*550*198	442 * 550 * 244	442 * 550 * 244
Cell	3.2V 50Ah	3.2V 100Ah	3.2V 150Ah	3.2V 200Ah	3.2V 200Ah
Design life	More than 15 years				
Cycle Life	More than 6000 cycles @ 80% DOD				
IP Class	IP31				IP30
Outer Package Materia	SPCC				
Operating Temperature	Charging: 0 to +45°C Discharging: -10 to +55°C Storage: -20 to +60°C				

*The model LR51.2-200-A for exclusive SMA Scompatible version + active balancing

Residential Energy Storage Battery (Wall-mounted)



High Efficiency
Max. efficiency 95%



Eco-Friendly
Clean energy



Long Lifespan
Sustainable long cycles



Built-in BMS
Charge & discharge protection

Product Introduction

 Up to 15 groups of parallel connections, flexible capacity expansion

 LED display for voltage, current, temperature, convenient for users to query

 Compatible with mainstream inverters in the market, providing more options

 Built-in BMS provides multiple protection functions

Residential Energy Storage Battery (Wall-mounted)



Item	Parameters	
Specifications and models	LW24-100	LW24-200
Nominal voltage	25.6V	25.6V
Nominal capacity	100Ah	200Ah
Maximum continuous charge/discharge current	100A/100A	100A/100A
Discharge voltage/Maximum charge	21.6V/29.2V	21.6V/29.2V
Weight	29kg	52kg
Dimensions(W×D×H)(mm)	375x500x165	510x400x240
Cycle life	6000 cycles @ 80% DOD	
Parallel Connection	Up to 15 units	
Self-discharge (month)@25°C	≤3%	
BMS communication types	RS485, RS232, CAN	
Cooling Mode	Free Cooling	
IP Class	IP54	
Display Fuction	LCD Display	
Design Life	15 Years	
Testing and Certification	UN38.3	
Storage Temperature	-20°C to 60°C	
Operate Temperature	Charging: 0 to +45°C Discharging: -10 to +55°C Storage: -20 to +60°C	
Relative Humidity	5% to 95%	
Working Pressure	61kPa~113kPa	

Residential Energy Storage Battery (Wall-mounted)



High Efficiency
Max. efficiency 95%



Eco-Friendly
Clean energy



Long Lifespan
Sustainable long cycles



Built-in BMS
Charge & discharge protection

Product Introduction

- Up to 15 groups of parallel connections, flexible capacity expansion
- LED display for voltage, current, temperature, convenient for users to query

- Compatible with mainstream inverters in the market, providing more options
- Built-in BMS provides multiple protection functions

Residential Energy Storage Battery (Wall-mounted)



Item	Parameters			
Specifications and models	LW51.2-50	LW51.2-100	LW51.2-150	LW51.2-200
Nominal voltage	51.2V			
Nominal capacity	50Ah	100Ah	150Ah	200Ah
Maximum continuous charge/discharge current"	50A/50A	100A/100A	100A/100A	100A/100A
Discharge voltage/Maximum charge	43.2 V/58.4 V	43.2 V/58.4 V	43.2 V/58.4 V	43.2 V/58.4 V
Weight	31kg	50kg	67kg	94kg
Dimensions(W×D×H)(mm)	450x450x130	450x500x140	400x600x200	500x620x245
Cycle life	6000 cycles @ 80% DOD			
Parallel Connection	Up to 15 units			
Self-discharge (month)@25°C	≤3%			
BMS communication types	RS485, RS232, CAN			
Cooling Mode	Free Cooling			
IP Class	IP54			
Display Fuction	LCD Display			
Design Life	15 Years			
Testing and Certification	CE, UN38.3, IEC62619			
Storage Temperature	-20°C to 60°C			
Operate Temperature	Charging: 0 to +45°C Discharging: -10 to +55°C Storage: -20 to +60°C			
Relative Humidity	5% to 95%			
Working Pressure	61kPa~113kPa			

Residential Energy Storage Battery (Floor-mounted)



Compact Size

Minimum the footprint



Eco-Friendly

Clean energy



Long Lifespan

Sustainable long cycles



Built-in BMS

Charge & discharge protetion

Product Introduction

 Up to 15 groups of parallel connections, flexible capacity expansion

 LED display for voltage, current, temperature, convenient for users to query

 Compatible with mainstream inverters in the market, providing more options

 Built-in BMS provides multiple protection functions

Residential Energy Storage Battery (Floor-mounted)



Item	Parameters			
Model	LF24200	LF24300	LF51200	LF51300
Nominal Voltage/V	25.6	25.6	51.2	51.2
Rated Capacity (5HR)/Ah	200	300	200	300
Cell Type	LFP(LiFePO4)	LFP(LiFePO4)	LFP(LiFePO4)	LFP(LiFePO4)
Energy/kWh	5.12	7.68	10.24	15.36
Maximum charge current/A	100	150	100	200
Maximum discharge current/A	100	150	100	200
Discharge voltage/Maximum charge/V	21.6/29.2	21.6/29.2	43.2/58.4	43.2/58.4
Weight/KG	52	68	92	123
Dimensions(W*D*H)(mm)	442 *240 *452	442 *240 *542	460 *240 *610	540 *240 *700
Cycle life	≥6000 cycles @ 80% DOD			
Max number of parallel connections	Up to 15 units			
Display	LCD Display			
BMS communication types	RS485, RS232, CAN			
IP Class	IP31			
Design Life	15 years			
Operate Temperature	Charging: 0 to +45°C Discharging: -10 to +55°C			
Optional function	WiFi/Bluetooth			
Compatible Inverters	PYLON, Sacolar, Deye, Growatt, Sofar, Voltronic, LUX, Schneider, Afore, Sinexcel, SUNGROW, Sorotec, GoodWe, KSTAR, Srne, Must, Megarevo, Sol-Ark, INVT, Aiswei, TBB, SAKO, Solis, SMA, Victron, SMK, BlueSun			

Residential Energy Storage Battery (Low Voltage & Stackable)



High Efficiency
Max. efficiency 94%



Easy installation
45 Kg Battery modules



Safe and Reliable
Lithium iron phosphate
battery cells



Perfect Compatibility
Work with leading branded inverters

Product Introduction

- Scalable from 5 kWh to 60 kWh
- LFP battery, safest and long cycle life
- Compatible with a variety of mainstream inverter
- Stackable design,effortlessly installation
- Maximum Flexibility for any Applications with up to 12 Modules Connected in Parallel
- Capable of High-Powered Emergency-Backup and Off-Grid Function

Battery Module

- 5.12 kWh per Module
- Modular and Stack Installation Design to simplify the maintenance
- Connect up to 12 module in parallel for a maximum size of 60 kWh.

Residential Energy Storage Battery (Low Voltage & Stackable)



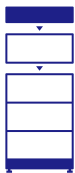
Flexible, Efficient, Simple



Plug Connection
No Additional Wiring Required



5-60kWh
Tailored Sizing for Each Application



Extend Anytime
Easily Adapts to New Requirements



High Power
Power for Every Application

Technical Parameters

Battery Module	SOL-5L-B	SOL-10L-B	SOL-15L-B	SOL-20L-B
External Structure				
Usable Energy	5kWh	10kWh	15kWh	20kWh
Max Cont. Output Current	100A	100A	100A	100A
Dimensions(WxDxH)(mm)	680x429x320	680x429x540	680x429x750	680x429x970
Nominal Voltage	51.2V			
Operating Voltage	43.2-58.4V			
Operating Temperature	-10°C to +50°C			
Battery Cell Technology	Lithium Iron Phosphate			
Communication	CAN , RS485			
Enclosure Protection Rating	IP55			
Round-Trip Efficiency	95%			
Scalability	Max. 12 Modules in Parallel (60kWh)			
Testing and Certification	UN38.3, CE , ROHS, IEC62619			
Applications	On/off-grid energy storage/off-grid power backup			

Residential Energy Storage System

(Low Voltage & Stackable)



High Efficiency

Max. efficiency 94%



Easy installation

45 Kg Battery modules



Safe and Reliable

Lithium iron phosphate battery cells



Perfect Compatibility

Work with leading branded inverters

Product Introduction

-  Scalable from 5 kWh to 60 kWh
-  Self-Consumption Optimization
-  Maximum Flexibility for any Applications with up to 12 Modules Connected in Parallel
-  Integrated with inverter to avoid the compatibility problem
-  LFP battery, safest and long cycle life
-  Stackable design,effortlessly installation
-  Capable of High-Powered Emergency-Backup and Off-Grid Function

Battery Module

- 5.12 kWh per Module
- Modular and Stack Installation Design to simplify the maintenance
- Connect up to 12 module in parallel for a maximum size of 60 kWh.

Residential Energy Storage System (Low Voltage & Stackable)

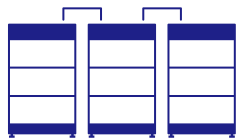


Flexible, Efficient, Simple



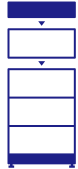
Plug Connection

No Additional Wiring Required



5-60kWh

Tailored Sizing for Each Application



Extend Anytime

Easily Adapts to New Requirements



High Power

Power for Every Application

Technical Parameters

Model	SOL-5-5.6LS	SOL-10-5.6LS	SOL-15-5.6LS	SOL-20-5.6LS
System structure				
Inverter model	SOL-5.6KL-S			
Rated Power	5600W			
Maximum PV Array Open Circuit voltage	500VDC			
MPPT Range	120-450V			
Nomial Output Voltage	220/230/240VAC			
Output Voltage Range	184-265VAC			
Nomial Output Current	25.5A/24.3A/23.3A			
Efficiency	Up to 93.5%			
Grid Input Voltage Range	120-280VAC			
Grid Frequency Range	50/60Hz(Auto Sensing)			
Maximum AC Charge Current	120A			
Maximum Solar Charge Current	120A			
Nominal DC Voltage	48VDC			
Usable Energy(kWh)	5 kWh	10 kWh	15 kWh	20kWh
Max Cont. Output Current	100A	100A	100A	100A
Dimensions(W×D×H)(mm)	680x429x540	680x429x750	680x429x980	680x429x1185
Nominal Voltage	51.2V			
Operating Voltage	43.2-58.4V			
Operating Temperature	-10°C to +50°C			
Battery Cell Technology	Lithium Iron Phosphate			
Communication	CAN , RS485			
Enclosure Protection Rating	IP55			
Round-Trip Efficiency	95%			
Scalability	Max. 12 Modules in Parallel (60kWh)			
Testing and Certification	UN38.3			
Applications	On/off-grid energy storage/off-grid power backup			

Residential Energy Storage Battery (High Voltage & Stackable)



High Efficiency
Max. efficiency 94%



Easy installation
45 Kg Battery modules



Safe and Reliable
Lithium iron phosphate
battery cells



Perfect Compatibility
Work with leading branded inverters

Product Introduction

-  LFP Battery , safe and long Cycle life
-  Stackable design , easy installation
-  Compatible with a variety of mainstream inverter

-  Supports off-grid and grid-connected scenarios
-  High voltage solution makes higher conversion efficiency

Battery Module

- 5.12 kWh per Module
- Modular and Stack Installation Design to simplify the maintenance
- Main board self-adjustable to voltage

Residential Energy Storage Battery (High Voltage & Stackable)

Flexible, Efficient, Simple



Plug Connection
No Additional Wiring Required

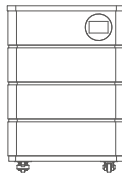


Extend Anytime
Easily Adapts to New
Requirements



High Power
Power for Every
Application

Technical Parameters

Model	SOL-20H-B	SOL-25H-B	SOL-30H-B
System structure			
Usable Energy (kWh)*1	20.5kWh	25.6kWh	30.7kWh
Number of Modules	4	5	6
Cell Type	LFP(LiFePO4)		
Nominal Voltage (V)	205V	256V	307V
Operating Voltage Range (V)	179.2~233.6V	224~292V	268.8~350.4V
Nominal Dis- / Charge Current (A)*2	50		
Operating Temperature Range (°C)	Charge: 0°C to +50°C; Discharge: -10°C to +50°C		
Communication	CAN, RS485		
Weight (kg)	230	280	330
Dimensions (W×D×H)(mm)	680x425x860	680x425x1035	680x425x1210
Ingress Protection Rating	IP55		
Round-Trip Efficiency	≥95%		
Applications	On/off-grid energy storage/off-grid power backup		

Residential Energy Storage System (High Voltage & Stackable)



High Efficiency

Max. efficiency 94%



Easy installation

45 Kg Battery modules



Safe and Reliable

Lithium iron phosphate
battery cells



Perfect Compatibility

Work with leading branded inverters

Product Introduction

- Scalable from 20 kWh to 30 kWh
- Self-Consumption Optimization
- The motherboard intelligently ADAPTS to voltage and supports up to 6 batteries in series
- Integrated with inverter to avoid the compatibility problem

- LFP battery, safest and long cycle life
- Stackable design,effortlessly installation
- High voltage solution makes higher conversion energy efficiency
- Support 3 Phase Output

Battery Module

- 5.12 kWh per Module
- Modular and Stack Installation Design to simplify the maintenance
- Main board self-adjustable to voltage

Residential Energy Storage System (High Voltage & Stackable)



Flexible, Efficient, Simple



Plug Connection

No Additional Wiring Required



Extend Anytime

Easily Adapts to New Requirements



High Power

Power for Every Application

Technical Parameters

Model	SOL-20-10HT	SOL-25-10HT	SOL-30-10HT
System structure			
Inverter model	SOL-10KH-T		
Maximum Photovoltaic Input power	15KW		
Rated Photovoltaic DC input voltage	620V		
MPPT operating voltage range	200-950V		
MPPT Quantity	2		
Maximum Photovoltaic Input Current	15A/15A		
Rated Output Power to Grid	10KW		
Rated Voltage	3L/N/PE; 220/380V;230/400V;240/415V		
Frequency of Grid	50/60Hz		
Maximum Output Current to Grid	16.5A		
Battery Voltage Range	135-750V		
Maximum Battery Charge/Discharge Current	25A/25A		
Rated Output Power to Load	10KW		
Rated output voltage to Load	3L/N/PE; 220/380V;230/400V;240/415V		
Maximum Output Current to Load	16.5A		
Usable Energy (kWh)*1	20.5kWh	25.6kWh	30.72kWh
Number of Modules	4	5	6
Cell Type	LFP(LiFePO4)		
Nominal Voltage (V)	205V	256V	307.2V
Operating Voltage Range (V)	179.2~233.6V	224~292V	268.8~350.4V
Nominal Dis- / Charge Current (A)*2	50		
Operating Temperature Range (°C)	Charge: 0°C to +50°C; Discharge: -10°C to +50°C		
Communication	CAN, RS485		
Weight (kg)	260	300	350
Dimensions(W×D×H)(mm)	680x429x1250	680x429x1470	680x429x1680
Ingress Protection Rating	IP55		
Round-Trip Efficiency	≥95%		
Applications	On/off-grid energy storage/off-grid power backup		



Product Series:

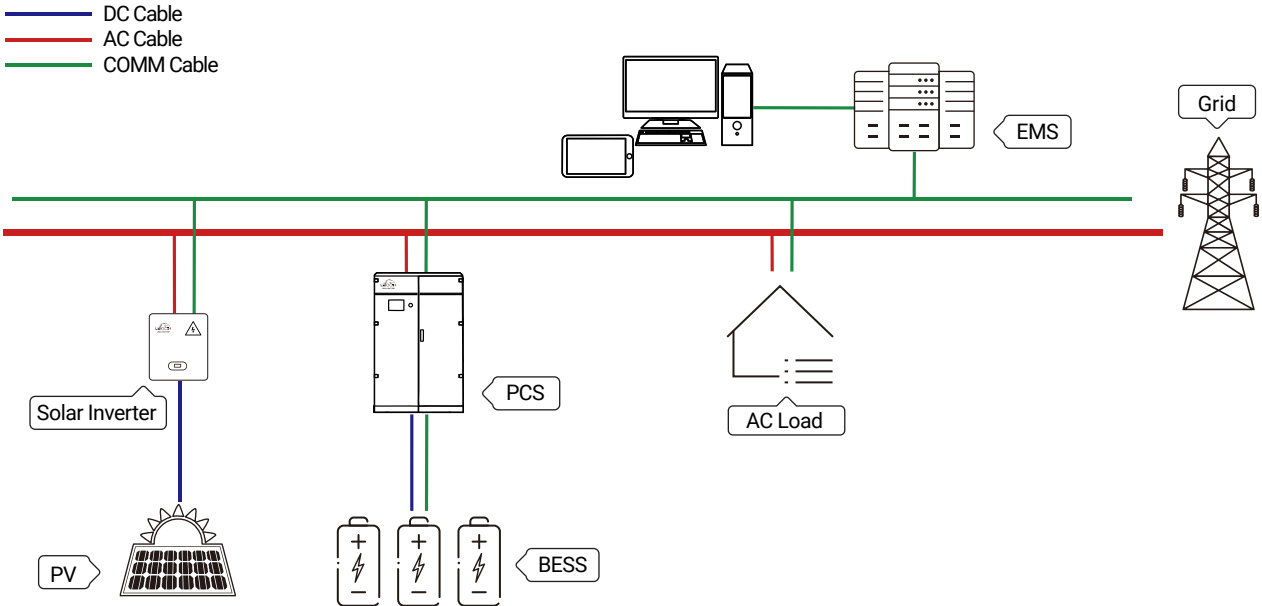
Epoch Series Outdoor Cabinet Energy Storage System

Titan Series Outdoor Cabinet PV Energy Storage System

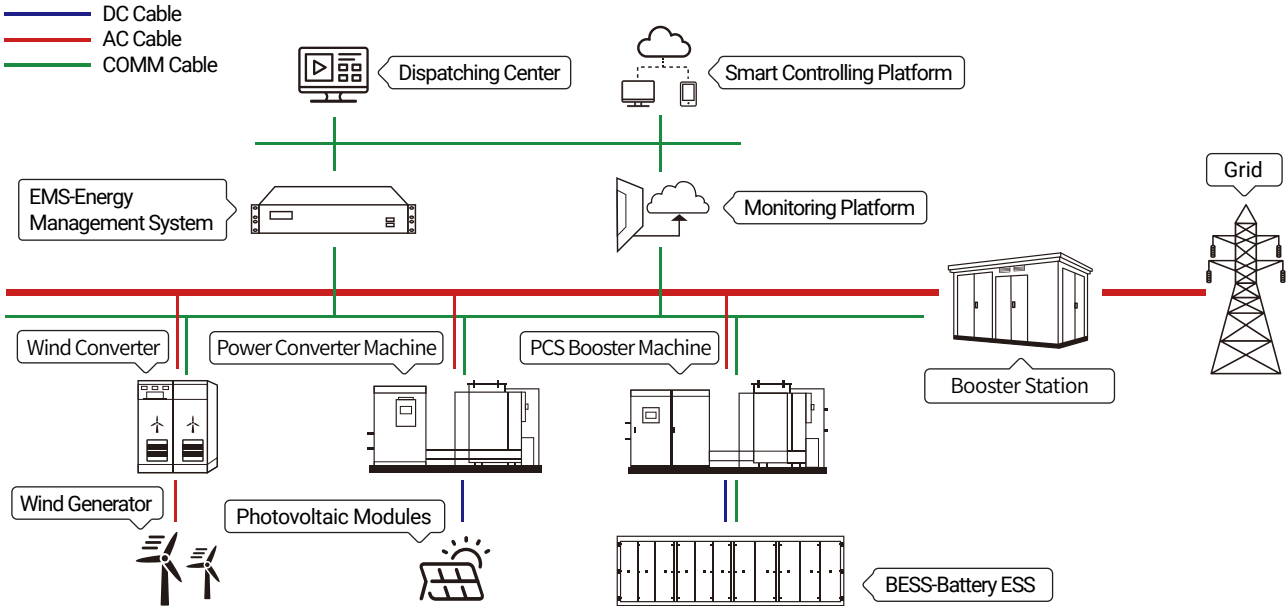
Containerized Battery System

Containerized Energy Storage System

C&I Energy Storage Systems Solutions



Large-scale Energy Storage Systems Solutions



Outdoor Cabinet Air Cooling Energy Storage System

Epoch-S100/215-W



Highly Integration



Safe and Reliable



Modular Design



Intelligent Operation
and Maintenance

Product Feature

High Density Integration

- ALL-in-one integrated design, simple installation, easy maintenance.
- Support grid-connected or off-grid operation.

Modular Design

- Flexible configuration, support for multiple parallel expansion, fast response, to ensure that the critical load of continuous uninterrupted power supply.

Safe And Reliable

- Multiple fire-fighting designs, core level temperature detection + PACK level(optional) + cabinet level perfluorohexanone fire-fighting + water fire-fighting, to ensure the safe and reliable operation of the system.

Intelligent Operation and Maintenance

- Visible and manageable network, improve system reliability, stability and O&M efficiency, optimize system performance.
- Intelligent switching of multi-mode energy regulation strategies, including peak shaving and valley filling, demand response, and virtual power plant.

Outdoor Cabinet Air Cooling Energy Storage System



System model	Epoch-S100/215-W
Battery Parameters	
Cell Type	LFP3.2V/280Ah
Battery PACK Type	1P16S
Cluster Configuration	1P240S
Nominal Energy	215.04kWh
Battery Voltage Range	672V~864V
Charge-Discharge Efficiency	≥95%
AC parameters(Grid mode)	
Rated Power	100kW
Rated Voltage	400V, 3P4W
Rated Current	144A
Overload Capacity	110% Long term
Rated Grid Frequency	50Hz/60Hz self-adaption
Power Factor	0.99
Power Factor Range	-1~1
Current Distortion Rate	< 3%(Rated power)
DC Component	0.5%
AC parameters (Islanded Mode)	
Rated Power	100kW
Rated Voltage	400V, 3P4W
Rated Current	144A
Rated Frequency	50Hz/60Hz
With Unbalanced Load Capacity	100%
System Parameters	
Charge and Discharge Rate	≤0.5P
Dimension(W*D*H)	1560*1235*2325mm
Weight	About 2.8t
IP Level	IP54
Altitude	2000m (> 2000m derated use)
Operating Temperature	-25°C~55°C
Relative Humidity	0~95%No condensation
Cooling Method (Pcs)	Intelligent air cooling
Cooling Method (Battery Compartment)	Air cooled air conditioner
Fire Protection System	PACK level(optional) + Cabinet level perfluorophenone Fire fighting + Water fire fighting
Communication Interface	RS485, CAN, Ethernet, Dry contact
Certifications	UN38.3

Outdoor Cabinet Liquid-cooled Energy Storage System

Epoch-S105/232-L & Epoch-S125/261-L



Product Feature

Extreme Temperature Control

- Intelligent liquid cooling, reduce the temperature difference, improve battery performance, realize the temperature difference between the battery cell $\leq 1^{\circ}\text{C}$, the temperature difference between the system $\leq 3^{\circ}\text{C}$, so that the system efficiency is higher and the life longer.

Modular Design

- Flexible combination, rapid deployment, support for multi-machine parallel expansion, rapid response, to ensure that the critical load of continuous uninterrupted power supply.

Safe And Reliable

- Multiple fire-fighting designs, core level temperature detection + PACK level + cabinet level perfluorohexanone fire-fighting + water fire-fighting, to ensure the safe and reliable operation of the system.

Intelligent Operation and Maintenance

- Intelligent management platform, real-time monitoring, maintenance and management, improve system reliability, stability, operation and maintenance efficiency.
- Peak reduction, demand response, virtual power plant, intelligent switching of multi-mode energy regulation strategies.

Outdoor Cabinet Liquid-cooled Energy Storage System



System model	Epoch-S105/232-L	Epoch-S125/261-L
Battery Parameters		
Cell Type	LFP3.2V/280Ah	LFP3.2V/314Ah
Battery PACK Type	1P52S	1P52S
Cluster Configuration	1P260S	1P260S
Nominal Energy	232.96kWh	261.248kWh
Battery Voltage Range	728V~936V	728V~936V
Charge-Discharge Efficiency	$\geq 95\%$	$\geq 95\%$
AC parameters(Grid mode)		
Rated Power	105kW	125kW
Rated Voltage	400V	400V
Rated Current	152A	180A
Overload Capacity	110% Long term	110% Long term
Rated Grid Frequency	50Hz/60Hz self-adaption	50Hz/60Hz self-adaption
Power Factor	0.99	0.99
Power Factor Range	-1~1	-1~1
Current Distortion Rate	$< 3\%$ (Rated power)	$< 3\%$ (Rated power)
DC Component	0.5%	0.5%
AC parameters (Islanded Mode)		
Rated Power	105kW	125kW
Rated Voltage	400V, 3P4W	400V, 3P4W
Rated Current	152A	180A
Rated Frequency	50Hz/60Hz	50Hz/60Hz
With Unbalanced Load Capacity	100%	100%
System Parameters		
Charge and Discharge Rate	$\leq 0.5\text{P}$	$\leq 0.5\text{P}$
Dimension(W*D*H)	1420*1350*2250mm	1450*1350*2250mm
Weight	About 2.8t	About 2.85t
IP Level	IP55	
Altitude	2000m (> 2000m derated use)	
Operating Temperature	$-25^{\circ}\text{C}\sim 55^{\circ}\text{C}$	
Relative Humidity	0~95%No condensation	
Cooling Method (Pcs)	Intelligent air cooling	
Cooling Method (Battery Compartment)	Intelligent liquid cooling	
Fire Protection System	PACK level+ Cabinet level perfluorophenone Fire fighting +Water fire fighting (optional aerosol)	
Communication Interface	RS485, CAN, Ethernet, Dry contact	
Certifications	GB/T-36276(2023)	

Outdoor Cabinet Air Cooling PV Energy Storage System

Titan-S100/215/100-WS



Product Feature

Highly Integrated

- ALL-in-one integrated design, simple installation, easy maintenance.

Rich Configuration

- Supports parallel expansion of multiple machines, supports automatic switching with off-grid, fast response to ensure continuous uninterrupted power supply for critical loads.
- Support load, battery, grid or diesel generator, photovoltaic access at the same time.

Safe And Reliable

- Multiple safety designs, core level temperature detection + PACK level aerosol fire extinguishing + cabinet level aerosol fire extinguishing + water fire protection + explosion-proof pressure relief, etc., to ensure reliable system operation.

Intelligent Operation and Maintenance

- Visible and manageable network, improve system reliability, stability and O&M efficiency, optimize system performance.
- Intelligent switching of multi-mode energy regulation strategies, including peak shaving and valley filling, demand response, and virtual power plant.

Outdoor Cabinet Air Cooling PV Energy Storage System



System model	Titan-S100/215/100-WS
Battery Parameters	
Cell Type	LFP3.2V/280Ah
Battery PACK Type	1P16S
Cluster Configuration	1P240S
Nominal Energy	215.04kWh
Battery Voltage Range	672V~864V
Charge-Discharge Efficiency	≥95%
AC parameters(Grid mode)	
Rated Power	100kW
Rated Voltage	400V, 3P4W
Rated Current	144A
Overload Capacity	110% Long term
Rated Grid Frequency	50Hz/60Hz self-adaption
Power Factor	0.99
Power Factor Range	1 (lead) ~ 1 (lag)
THDi	< 3%(Rated power)
DC Component	0.5%
AC parameters(Islanded Mode)	
Rated Power	100kW
Rated Voltage	400V, 3P4W
Rated Current	144A
Rated Frequency	50Hz/60Hz
THDu	≤3% (linear load)
Three-phase unbalance	100%
System Parameters	
Charge and Discharge Rate	≤0.5C
Dimension(W*D*H)	1820*1250*2450mm
Weight	About 2.9t
IP Level	IP54
Altitude	2000m (> 2000m derated use)
Operating Temperature	-25°C~55°C
Relative Humidity	0~95% No condensation
Cooling Method (Pcs)	Intelligent air cooling
Cooling Method (Battery Compartment)	Air cooled air conditioner
Fire Protection System	PACK level + cabinet level aerosol fire extinguishing + water fire fighting + explosion- proof pressure relief
Communication Interface	RS485, CAN, Ethernet, Dry contact
Certifications	UN38.3
STS Parameters (optional)	
Rated Power	200kw (grid side 200kw, load side 100kw)
Switching Time	≤20ms
Photovoltaic parameters (optional)	
Maximum photovoltaic input power	50kw/100kw
PV voltage range	Opening voltage 0~660V Full load voltage 500~660V
Number of MPPTs	1/2
Number of photovoltaic input channels	1/2
Maximum input current	Maximum current 100A/200A

Outdoor Cabinet Liquid-cooled Energy Storage System

Titan-S105/232/100-LS



Industrial and Commercial
Energy, Microgrids



Platform Energy
Storage



Optical Storage
Charging Station



Emergency
Standby Power

Product Feature

Extreme Temperature Control

- Intelligent liquid cooling, reduce the temperature difference, improve battery performance, realize the temperature difference between the battery cell $\leq 1^{\circ}\text{C}$, the temperature difference between the system $\leq 3^{\circ}\text{C}$, so that the system efficiency is higher and the life longer.

Rich Configuration

- More flexible configuration, support for multiple parallel expansion, support and off-grid automatic switching, fast response, to ensure that the key loads continue uninterrupted power supply.
- Support load, battery, grid or diesel generator, photovoltaic access at the same time.

Safe And Reliable

- Multiple fire-fighting designs, core level temperature detection + PACK level + cabinet level aerosol fire-fighting + water fire-fighting + explosion-proof pressure relief to ensure the safe and reliable operation of the system.

Intelligent Operation and Maintenance

- Visible and manageable network, improve system reliability, stability and O&M efficiency, optimize system performance.
- Intelligent switching of multi-mode energy regulation strategies, including peak shaving and valley filling, demand response, and virtual power plant.

Outdoor Cabinet Liquid-cooled Energy Storage System



System model	Titan-S105/232/100-LS
Battery Parameters	
Cell Type	LFP3.2V/280Ah
Battery PACK Type	1P52S
Cluster Configuration	1P260S
Nominal Energy	232.96kWh
Battery Voltage Range	728V~936V
Charge-Discharge Efficiency	$\geq 95\%$
AC parameters(Grid mode)	
Rated Power	105kW
Rated Voltage	400V, 3P4W
Rated Current	152A
Overload Capacity	110% Long term
Rated Grid Frequency	50Hz/60Hz self-adaption
Power Factor	0.99
Power Factor Range	1 (lead) ~ 1 (lag)
THDi	$< 3\%$ (Rated power)
DC Component	0.5%
AC parameters(Islanded Mode)	
Rated Power	105kW
Rated Voltage	400V, 3P4W
Rated Current	152A
Rated Frequency	50Hz/60Hz
THDu	$\leq 3\%$ (linear load)
Three-phase unbalance	100%
System Parameters	
Charge and Discharge Rate	$\leq 0.5\text{C}$
Dimension(W*D*H)	1570*1360*2335 (mm)
Weight	About 2.969t
IP Level	IP55
Altitude	2000m (> 2000m derated use)
Operating Temperature	$-25^{\circ}\text{C}\sim 55^{\circ}\text{C}$
Relative Humidity	0~95% No condensation
Cooling Method (Pcs)	Intelligent air cooling
Cooling Method (Battery Compartment)	Intelligent liquid cooling
Fire Protection System	PACK level + cabinet level aerosol fire fighting + water fire fighting + explosion-proof pressure relief
Communication Interface	RS485, CAN, Ethernet, Dry contact
Certifications	IEC61000, IEC62619, IEC62477, UN38.3
STS Parameters (optional)	
Rated Power	200kw (grid side 200kw, load side 100kw)
Switching Time	$\leq 20\text{ms}$
Photovoltaic parameters (optional)	
Maximum photovoltaic input power	50kw/100kw
PV voltage range	Opening voltage 0~720V Full load voltage 500~720V
Number of MPPTs	1/2
Number of photovoltaic input channels	1/2
Maximum input current	Maximum current 100A/200A

Indoor Rack Type High Voltage Lithium Battery System

CF-15S-1P16S-280W0.5



Product Feature

High Voltage & High Efficiency

- Efficiency ≥95%
- Voltage range of 672~864V

Standard Design

- Fit to 19-inch rack & easy to install

Safe & Long Lifespan

- more than 6000 cycles

Active Balancing

- Monitor cells and adjust balance accordingly to protect them and maintain consistency

Indoor Rack Type High Voltage Lithium Battery System



System model	CF-15S-1P16S-280W0.5
PACK Specifications	
Cell Type	LFP
Nominal Voltage	51.2V
Nominal Capacity	280Ah
Nominal Power Energy	14.336kWh
Net Weight (approximate)	~115kg
Dimension (W×D×H)	482W×770D×227H ±3mm
Charging Temperature Range	0~55°C
Discharge Temperature Range	-20°C~55°C
Cooling Mode	Intelligent Air Cooling
Communication Interface	CAN
Life Cycles	≥6000 times (25°C, 0.5C/0.5C, SOH 70%)
IP level	IP20
Compatible Inverters	Sinexcel / Victron / SMA etc.
Certification	UN38.3
RACK Specifications	
PACK Quantity	15
Nominal Voltage	768V
Nominal Capacity	280Ah
Nominal Power Energy	215kWh
Operating Voltage Range	672~864V
Charging Current	≤140A
Discharging Current	≤140A
Working Altitude	No derating below 2000m
Ambient Humidity	0~95% (non-condensing)
Net Weight (approximate)	~2000kg
Dimension (W×D×H)	1110×780×2100 ± 5mm (Excluding Connector Height)
Cluster Control Device	GA-E1000V/250A
Communication Interface	RS485, CAN, Ethernet, Dry contacts
Compatible Inverters	Sinexcel / Victron / SMA etc.
Certification	UN38.3

* This product supports 1~17 PACK in series and can be customized according to needs. For more information, please contact our technical team.

Containerized Battery System

Epoch-B5015-20L



Product Feature

Safe and Reliable

- High safety battery, complete certification.
- Highly dustproof and waterproof, IP55 guarantees the safety and reliability of electrical components and equipment.
- Cells, packs and clusters have passed the world's most stringent UL9540A thermal runaway spreading test.
- Class B functional safety, double fault protection.
- Refined fire protection design for fire suppression.
- High safety, one cluster, one management, no loop current.

High Efficiency

- Single-cluster DC charging and discharging energy efficiency >95%.

Easy installation

- Modular design, easy to maintain.

Long Lifespan

- Battery cycle times up to 8000.
- 10 years design life under standard working conditions.
- Intelligent charge/discharge management to extend system life.
- Intelligent thermal management design, battery cycle life increased by 30%.

High Yield

- High energy density design cost savings, lower cost of kWh.
- Highly integrated, saves footprint, saves costs.
- High life cycle yield.

Containerized Battery System



System model	Epoch-B5015-20L
DC side parameters	
Cell Type	LFP314
Module Configurations	1P52S
Cluster Configuration	1P416S /8 modules
System configuration	12*1P416S
Nominal Battery Capacity	5015kWh
Battery Voltage Range	1164.8~1476.8Vdc
Charge/Discharge Ratio	0.5C
Anti-corrosion Grade	C3~C5
Dimension (W*D*H)	6058*2438*2896mm
Weight	43.5t
IP Level	IP55
Altitude	2000m(Derating over 2000 meters)
Operating Temperature	-20℃~55℃
Cooling Method	Intelligent Liquid Cooling
Fire Protection System	Aerosol Fire Fighting + Natural Gas Detection + Sprinkler Fire Fighting + Ventilation and Explosion Relief System
Communication Interface	LAN, RS485, CAN
Standards-Compliant	UL1973,UL9540A,FCC,IEC62619,IEC 62477-1,CE-EMC,(EU)2023/1542,UN3536,IP67, IP55,UN38.3,IEC63056,IEC62933-5-2

Containerized Energy Storage System

1.67MW/3.343MWh & 1.25MW/2.507MWh



Product Feature

Safe and Reliable

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- Highly dustproof and waterproof, IP55 guarantees the safety and reliability of electrical components and equipment.
- Cells, packs and clusters have passed the world's most stringent UL9540A thermal runaway spreading test.
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High Yield

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- Highly integrated, saves footprint, saves costs.
- High life cycle yield.

Containerized Energy Storage System



System model	Epoch-S1670/3343-20L	Epoch-S1250/2507-20L
DC side parameters		
Cell Type	LFP314	LFP314
Module Configurations	1P52S	1P52S
Cluster Configuration	1P416S /8 modules	1P416S /8 modules
System configuration	8*1P416S	6*1P416S
Nominal Battery Capacity	3343kWh	2507kWh
Battery Voltage Range	1164.8~1476.8Vdc	1164.8~1476.8Vdc
Charge/Discharge Ratio	0.5C	0.5C
Equalization	Passive balancing	Passive balancing
AC Side Parameters		
Rated power	1670kW	1250kW
AC Voltage	690Vac	690Vac
Grid frequency	50Hz/60Hz±3Hz	50Hz/60Hz±3Hz
AC access method	3W+PE	3W+PE
Power factor	-1~1	-1~1
Maximum THD	< 3%(@rated power)	< 3%(@rated power)
System Parameters		
Dimension (W*D*H)	6058*2438*2896mm	6058*2438*2896mm
Weight	36t	30t
IP Level	IP55	
Altitude	2000m(Derating over 2000 meters)	
Operating Temperature	-20°C~55°C	
Cooling Method	Intelligent Liquid Cooling	
Fire Protection System	Aerosol Fire Fighting + Natural Gas Detection + Sprinkler Fire Fighting + Ventilation and Explosion Relief System	
Communication protocol	Modbus, IEC 61850, IEC104	
Certification Standards	UL1973,UL9540A,FCC,IEC62619,IEC 62477-1,CE-EMC, (EU)2023/1542,IP67, IP55,UN38.3,IEC63056,	