

LITHIUM BATTERY PRODUCT MANUAL

**OULITER
ENERGY**

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Mobile phone scan



JIANGSU OLITER ENERGY TECHNOLOGY CO.,LTD.



Company Profiles

Jiangsu Oliter Energy Technology Co., Ltd., a subordinate to the Oliter group, was founded in 1998, covering an area of 120,000 m², and annual energy storage battery production capacity of 2million KVAh. For many years, the company has been committed to the research, development, production, application and sales of lithium batteries and lithium-ion battery groups.

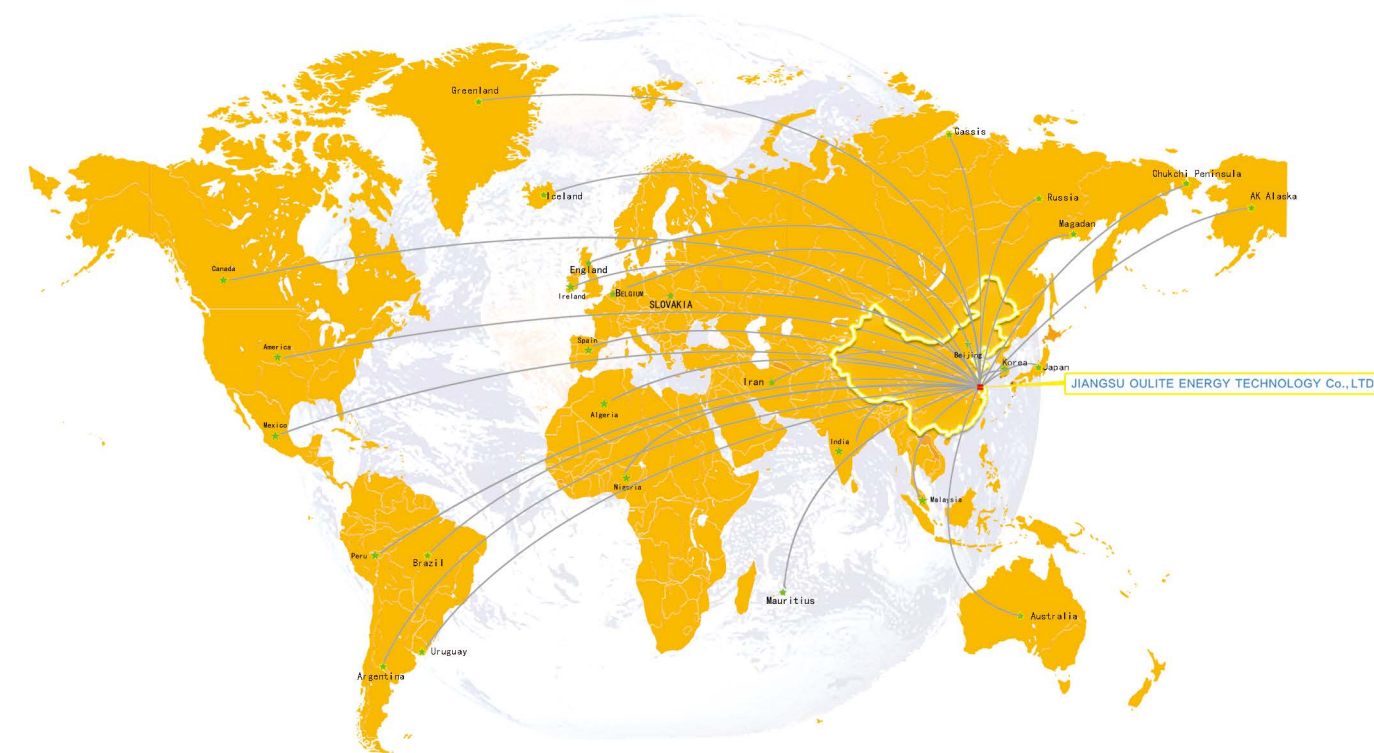
Oliter has developed seven series of solar energy storage battery, wind energy storage battery, traction power battery, UPS battery and communication battery. The company has become the largest professional production base of solar energy storage battery in Northern Jiangsu.

The products are widely used in the field of road lighting, such as solar street lamp, courtyard lamp, lawn lamp, wind solar street lamp, communication, power, backup, photovoltaic power station, independent household power generation system, etc. the company has become the leader of the national energy storage industry with the increase of sales volume by twice every year.

We have a professional R & D, production, installation, testing technical team, we can ensure that our machines put into operation in the best condition, we can provide customers 24 hours services with the most timely and professional technique. Oliter is willing to provide the best quality batteries for your energy storage solutions, and then become a bridge between domestic and foreign customers and companies.

Our products have been sold to more than 70 countries in the world, such as Uganda, Italy, Germany, Romania, Dubai, Russia, Saudi Arabia, Libya, Jordan, Indonesia, Thailand, India, South Africa, Egypt, Nigeria, Kenya, etc.

The company wholeheartedly provides first-class products and five-star services for our customers. We welcome enterprises and relevant people in the industry to visit and guide us. We sincerely look forward to cooperating with more excellent enterprises in the industry, co-existence and co prosperity, and create a win-win situation!



Enterprise Philosophy

Business Concept: Technological Innovation, Sustainable Management

Quality Policy: To Meet the Requirements, Customer Satisfaction and Continued Improvement in the Pursuit of Excellence.

Environment Policy: Abidance By Rule, Precautions Against Pollution, Continuous Improvement, Energy-saving and Consumption-reducing.

Occupation Health Safety Policy: Cherishing Life, Reduce Accident, Eliminate Hidden Danger, Sustainable Development.

Working Style: React Rapidly, Act Immediately

Management Model: Over All Every Control and Clear

Humanistic Idea: Cohesiveness, Strength, Innovation and Management Ability

Personnel System: Survival of the Fittest, Rewards and Punishments Fairly

Performance Measurement: Result is No. 1 Target

Efficiency is No. 1 Pursuit

Saving is No. 1 Principle

Talent Standard: Precise and Well-Knit Working Style

Hard-Working and Persistent Working Attitude

Crazy and Rapturous Working Passion

Service Principle: Customer Focused

For Domestic Clients, We Shall Reach the Designated Place within 48 Hours

For Foreign Clients, We Shall Solve Problems as Fast as Possible Through Various Channels

Brand Slogan: New Energy Leading the Future



Lithium iron phosphate cell

3.2V100Ah

Product Features :

Long cycle life,100%DOD cycle life up to 4000 times

High energy density, actual energy density is more than 160wh/kg

Low internal resistance,ACIR<0.35mΩ

DC withstand voltage up to 3500v

Pulse discharge8C (10s)



Model Presentation

Model: WLD50160120/100Ah	size: 50*160*120	weight: 1.9±0.20kg
internal res: 0.3±0.05mΩ	rated capacity:100Ah	rated voltage:3.2v
energy density:≥160Wh/Kg	charge end voltage:3.65v	discharge end voltage:2.5v
Max. charge rate:1.0C	Max.discharge rate:1.0C	

Lithium iron phosphate cell

3.2V50Ah

Product Features :

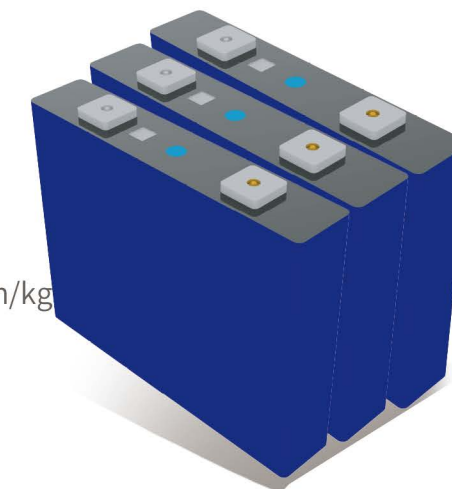
Long cycle life,100%DOD cycle life up to 4000 times

High energy density, actual energy density is more than 160wh/kg

Low internal resistance,ACIR<0.35mΩ

DC withstand voltage up to 3500v

Pulse discharge8C (10s)



Model Presentation

Model: WLD25160120/50Ah	size: 25*160*120	weight: 1.0±0.20kg
internal res: 0.3±0.05mΩ	rated capacity:50Ah	rated voltage:3.2v
energy density:≥160Wh/Kg	charge end voltage:3.65v	discharge end voltage:2.5v
Max. charge rate:1.0C	Max.discharge rate:1.0C	



Lead-acid replacement iron phosphate lithium battery

Main application scenarios:

Rv energy storage system;

Solar/wind storage

Minor UPS backup power supply

Golf carts



Model Presentation

Model:	12.8V100Ah	12.8V120Ah	12.8V150Ah	12.8V200Ah	12.8V300Ah	25.6V100Ah
size:	330*171*214mm	385*190*245 mm	385*190*245 mm	530*207*215 mm	480*360*178mm	530*207*215 mm
weight:	12+0.2Kg	14+0.2Kg	16+0.2Kg	24+0.2Kg	37+0.2Kg	24+0.2Kg
internal res:	0.7+0.05mΩ	0.7+0.05mΩ	0.7+0.05mΩ	0.7+0.05mΩ	0.7+0.05mΩ	0.7+0.05mΩ
rated capacity:	100Ah	120Ah	150Ah	200Ah	300Ah	100Ah
rated voltage:	12.8V	12.8V	12.8V	12.8V	12.8V	25.6V
energy density:	1280Wh	1536Wh	1920Wh	2560Wh	3840Wh	2560Wh
charge end voltage:	14.2V	14.2V	14.2V	14.2V	14.2V	28.4V
discharge end voltage:	11.2V	11.2V	11.2V	11.2V	11.2V	22.4V
Max. charge rate:	100A	100A	100A/150A	100A/200A	100A/250A	100A
Max.discharge rate:	50A	50A	50A/70A	50A/100A	50A/120A	50A

OTLVS(25.6V)

Model Presentation



Model:	25.6v100Ah	25.6V200Ah
size:	440*353*133mm	442*400*133
DOD:	80%	80%
Life cycle:	6000	6000
Charge Voltage:	28.4V	28.4V
Discharge Voltage:	22.4V	22.4V
Max Charge/Discharge Current:	50/100A	100A
Design life:	>10years	>10years
Communication protocols:	CAN, RS485	CAN, RS485
Safety Certificate:	CE, TÜV,IEC62619, UN38.3, ROHS	

OTLVS(51.2V)

Model Presentation



Model:	51.2v50Ah	51.2v100Ah	51.2v200Ah
size:	440*400*133mm	440*400*133mm	440*602*250mm
DOD:	80%	80%	80%
Life cycle:	6000	6000	6000
Charge Voltage:	56.8V	56.8V	56.8V
Discharge Voltage:	44.8V	44.8V	44.8V
Max Charge/Discharge Current:	25/50A	50/100A	50/100A
Design life:	>10years	>10years	>10years
Communication protocols:	CAN, RS485	CAN, RS485	CAN, RS485
Safety Certificate:	CE, TÜV,IEC62619, UN38.3, ROHS		

Rack storage lithium battery

51.2V100Ah



Product Features :

19 inch standardized design, 3U height

3.2V100Ah square aluminum core, higher energy density

Intelligent system control, more stable performance

Extrusion design, longer life

Wall-mounted energy storage lithium battery

OTWLVS51.2V

Product Features :

IP55 waterproof design, suitable for outdoor placement

3.2V100Ah square aluminum core, higher energy density

Intelligent system control, more stable performance

Extrusion design, longer life

Model Presentation

Model:	51.2V100Ah	51.2V200Ah	51.2V280Ah
size:	675*475*186mm	985*577*200mm	580*278*900mm
weight:	55+0.2Kg	100+0.2Kg	115+0.2Kg
internal res:	0.9+0.05mΩ	0.9+0.05mΩ	0.9+0.05mΩ
rated capacity:	100Ah	200Ah	280Ah
rated voltage:	51.2V	51.2V	51.2V
energy density:	5120Wh	10240Wh	14336Wh
charge end voltage:	56.8V	56.8V	56.8V
discharge end voltage:	44.8V	44.8V	44.8V
Max. charge rate:	50A	50A	100A
Max.discharge rate:	100A	100A	200A





Integrated home energy storage system Features

51.2V300Ah/15KWh

Product Features :

Storage and reverse integration design, safe and beautiful

Ultra-thin wall design, save installation space

3.2V100Ah square aluminum core,more stable performance

Extrusion design,longer life

Mechanical Characteristics

Dimensions	Width	640MM
	Depth	200MM
	Height	1740MM

Model Presentation

Series and parallel: 16S3P

Rated capacity: 300Ah

Rated voltage: DC51.2V

Voltage range: 44.8V~56.8V

Rated energy: 15.36kWh

Max. charge current : 50A

Max. discharge current: 100A

Inverter:5KW/AC220V

discharge temp.: -20°C~45°C

Charge temp.: 0°C~45°C

RACK HIGH VOLTAGE ENERGY STORAGE LITHIUM BATTERY

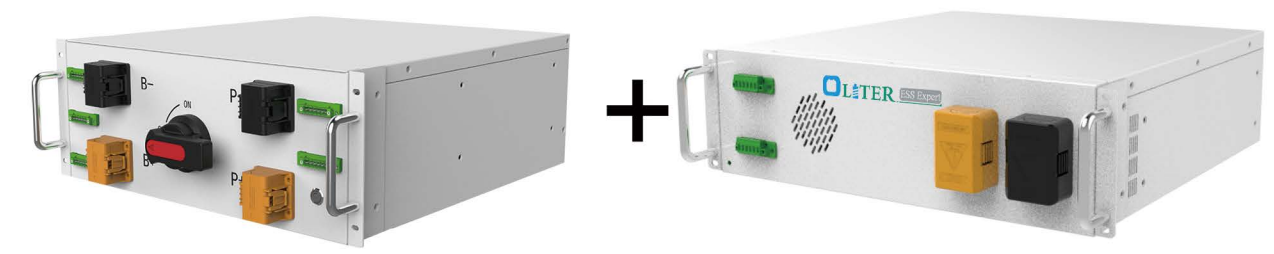
OTHSYSTEM-204.8V-100AH

Product Features:

- 19 inch standardized design, 3U height
- 3.2V100Ah square aluminum core, more stable performance
- Extrusion design, longer life
- System voltage range: $\leq 1000V$

Model Presentation

- Series and parallel : 64S1P
- Rated capacity: 100Ah
- Rated voltage: DC204.8V
- Voltage range: 179.2V~227.2V
- Rated energy: 20.48kWh
- Max. charge current: 50A
- Max. discharge current: 100A
- Ip grade: IP20
- discharge temp.: $-20^{\circ}C \sim 45^{\circ}C$
- Charge temp. : $0^{\circ}C \sim 45^{\circ}C$



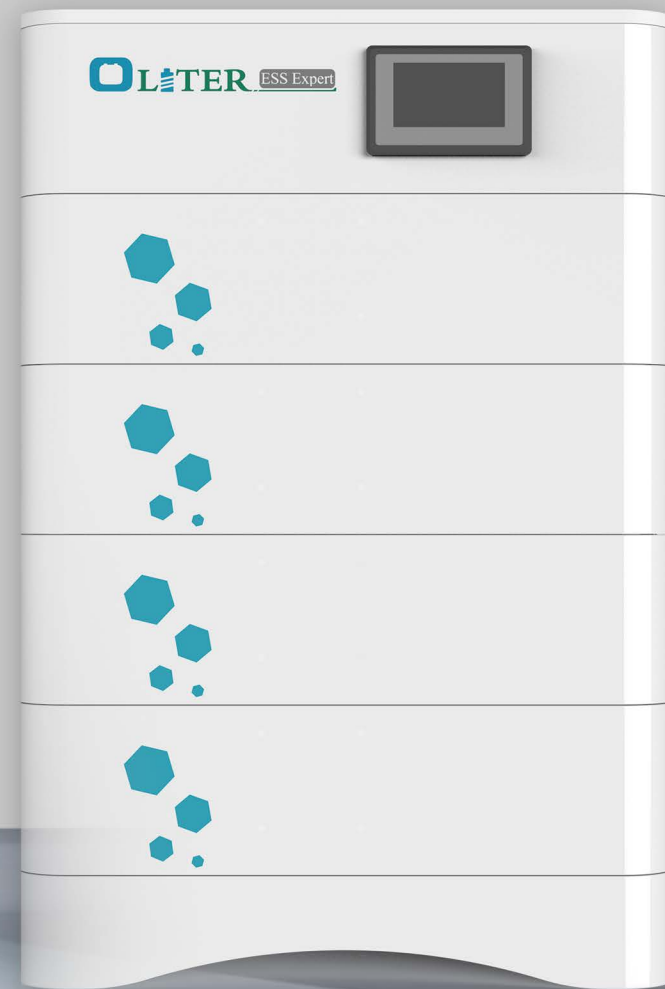
Mechanical Characteristics

Dimensions	Width	600MM
	Depth	600MM
	Height	1100MM

Note: All OTHVS series battery pack can work with HIGH VOLTAGE CONTROL MODULE and used in high voltage energy storage system. U can use the pack in series to meet your system requirement.

STACKED HIGH VOLTAGE STORAGE LITHIUM BATTERY

OTHYSYSTEM-204.8V-100AH 20.48KWH



Product Features:

IP55 waterproof design, suitable for outdoor placement

3.2V100Ah square aluminum core, more stable performance

Extrusion design, longer life

Stacked installation mode, no wiring trouble

Friendly man-machine interface, user APP, data management



Mechanical Characteristics

Dimensions	Width	590MM
	Depth	420MM
	Height	840MM

Note: All OTHVS series battery pack can work with HIGH VOLTAGE CONTROL MODULE and used in high voltage energy storage system. U can use the pack in series to meet your system requirement.



Stacked high voltage energy storage Lithium Battery (thin model)

153.6V100Ah/15KWh

Product Features:

IP55 waterproof design, suitable for outdoor placement

Ultra-thin wall design, save installation space

3.2V100Ah square aluminum core, more stable performance

Extrusion design, longer life

Stacked installation mode, no wiring trouble

Friendly man-machine interface, user APP, data management

Model Presentation

Series and parallel : 48S1P

size: 600mm*200mm*1620mm

Rated capacity: 100Ah

Rated voltage: DC153.6V

Voltage range: 134.4V~170.4V

Rated energy: 15.36kWh

Max. charge current: 50A

Max. discharge current: 100A

Ip grade: IP55

discharge temp. : -20°C~45°C

Charge temp. : 0°C~45°C



Distributed air cooled outdoor cabinet

Product Features:

Distributed design, standardized products

Intelligent temperature control, air cooling heat dissipation

Peak shaving and valley filling, demand response, backup power supply, multi-scenario application

Lithium iron phosphate, coupled with an advanced management system and precise ,fire extinguishing capabilities



Model Presentation

model:	358.4V100KWh	716V200KWh
Series and parallel :	112S1P	224S1P
size:	1350mm*1050mm*2080mm	1350mm*1550mm*2080mm
Rated capacity:	280Ah	280Ah
Rated voltage:	DC358.4V	DC716V
Voltage range:	313.6V~403.2V	627.2V~806.4V
Rated energy:	100.3kWh	200.7kWh
Max. charge current:	140A	140A
Max. discharge current:	140A	140A
Ip grade:	IP54	IP54
discharge temp. :	-20°C~45°C	-20°C~45°C
Charge temp. :	0°C~45°C	0°C~45°C

Distributed liquid cooling outdoor cabinet

1331.2V375KWH

Product Features:

Distributed design, flexible configuration, strong scalability

Liquid cooling, heat management

Peak shaving and valley filling, demand response, backup power supply, multi-scenario application

Revised sentence: Facilitate communication and coordination between EMS dispatching and BMS to optimize energy utilization

Model Presentation

Series and parallel :	416S1P
size:	1296mm*772mm*2340mm
Rated capacity:	280Ah
Rated voltage:	DC1331.2V
Voltage range:	1164.8V~1497.6V
Rated energy:	372.736kWh
Max. charge current:	140A
Max. discharge current:	140A
Ip grade:	IP20
discharge temp. :	-20°C~45°C
Charge temp. :	0°C~45°C



Technology changes life



MW Lithium Battery Energy Storage

System Parameter

System installed capacity: 1.2Mwh

Charge and discharge ratio: $\leq 0.5P$

Integrated form: Outdoor boxes/cabinets

IP grade: IP55

Seismic grade: UBC Zone4

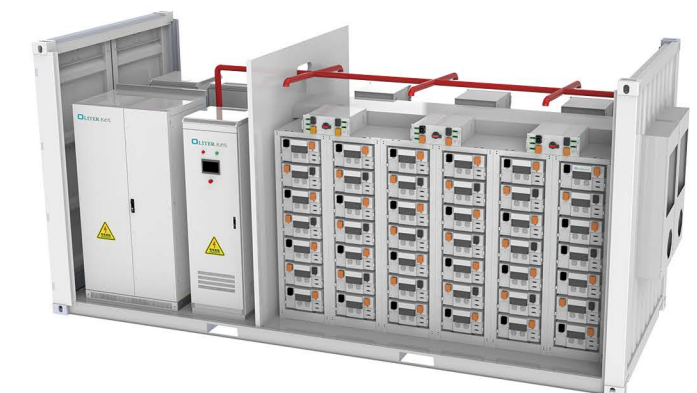
Storage container dimensions: 4792*2438*2896mm

Electrical bin dimensions: 3657*2438*2896mm



Application filed

In view of the future broad grid energy storage, industrial and commercial energy storage and new energy storage application market and project demand diversity, through the standard module unit energy storage technology solutions, to achieve project support and rapid delivery, reduce the life cycle cost, and improve the safety and reliability of energy storage system.



Main Future

The unit energy storage system is an independent DC power storage device. After connecting with the power conversion device such as the energy storage converter to the power grid, it can realize functions such as peak-rushing, reactive power compensation, dynamic customer addition, demand response and so on. At the same time, the unit energy storage system is an intelligent multi-type power energy storage solution that can be embedded into the customer's original power automation system to operate and accept modulation instructions



Portable energy storage system

2.5KWH/3000W



NO.	Item	Parameter	Remarks
Nominal			
1	Nominal Capacity	2560Wh	
	Inverter	3000W	
2	Nominal Voltage	51.2V	
Electric Property			
1	Operating Voltage range	44.8-56.5	
2	Charging Limit	≤20A	PV photovoltaic charging Turn the 220V to 51.2V/20A charger
	Constant current charging current	20A	
4	Constant voltage charging voltage	56.5V	
5	Discharge cut-off voltage	44.8V	
6	Discharge current	≤30A	
7	Static open-circuit voltage difference	≤40mV	
8	Voltage difference at the discharge termination end	≤100mV	
Life			
1	Cycle Life	≥2000 times	
2	Design Life	≥10年	
Size and weight			
1	System Size	600*500*400mm	
2	Battery box size	≤35Kg	
Protection			
1	Battery Protection	Over charge, over discharge, over current, short circuit and overtemperature	
2	Charging \ inverter	Input undervoltage and overvoltage; output overcurrent, short circuit; and overtemperature	
Environment temperature			
1	Working Temperature	0°C~45°C	
2	Storage Temperature	-10°C~45°C	
3	Relative humidity	≤90%	
4	Protection level	IP21	

Project case show

