

YJC POWER

HIGH-VOLTAGE VEHICLE AND SHIP BATTERY POWER SYSTEM



YJC POWER

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YJC Technology Co., Ltd.

LiFePO4 BATTERY

HIGH-SPEED CAR BATTERY FOR LOGISTICS AND DELIVERY

COST ADVANTAGE

LFP+CTP Fewer parts, lower costs
Standardized design, full range of applications

VOLUME ADVANTAGE

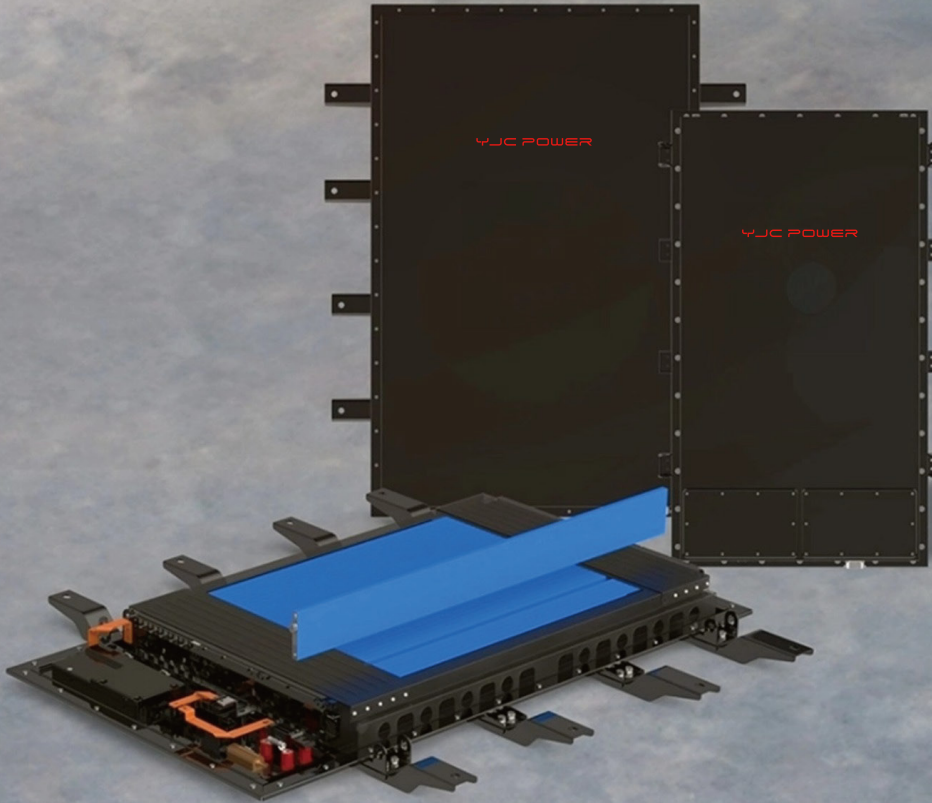
Reduced cabinet size, more flexible space, easy to arrange

LIGHTWEIGHT ADVANTAGE

Lighter box weight, conducive to the lightweight of the whole vehicle

BATTERY LIFE ADVANTAGE

Excellent thermal management system, can meet 5000 times charge and discharge, service life of up to 10 years



Model	YJC-EV-M-115.2V138.5Ah-SE	YJC-EV-M-304V104Ah-SE
Battery Type	LiFePO4	LiFePO4
Rated voltage	115.2V	304V
Energy rating	15.9552kWh	31.616kWh
Battery Pack Capacities	138.5Ah	104Ah
Rated charging current	27A	34.5A
Max. continuous charging current	69.25A	104A
Standard discharge current	27A	34.5A
Max. pulse discharge current	350A@30s	300A@10s
Charge holding capacity	≥90% 25°C/30day	≥90% 25°C/30day
IP level	IP67	IP67
Weight (kg)	≈135kg	≈250kg
Battery module size (95S)	1246*770*129mm (Excluding connector)	1356*872*145mm(including fixing frame 1130)
Communications port	2-way CAN, vehicle CAN and commissioning CAN	
Cycle life	3500 cycles	
Operating temperature range	-20°C~60°C	
High-voltage interlock detection	Possible	
SOH Estimates	Possible	
SOP Estimation	Possible	
Curriculum vitae (CV)	Supports fault logging and event logging functions	
High Voltage Relay Adhesion Detection	Possible	
UDS diagnostic function	Possible	
Insulation resistance	According to "GB/T 18384.1-2001 Electric Vehicle Safety Requirements Part 1:Vehicle-mounted Energy Storage Devices" in the test method, the insulation resistance value is divided by the nominal voltage U of the power storage battery, and the resulting value should be greater than 100Ω/V.	
Certification & Safety Standard	ECE R100/UN38.3/ECE R155、GB 38031 2020	

LiFePO4 BATTERY

BATTERY FOR UNMANNED VEHICLES IN PORT LOGISTICS

300.48kWh unmanned transport vehicle battery

Close cooperation with several well-known port enterprises in China Jointly establish and develop advanced unmanned transportation systems

In the future, we will focus on in-depth work in the field of unmanned transportation in the venue. Strive to become a brand with wide influence and high recognition in the field.

WARRANTY PERIOD

- ☐ 5years
- ☐ 10years



Model	YJC-EV-M-640V469.5Ah-SE
Battery Type	LiFePO4
Storage environment temperature	Short-term storage (3 months): -20~45℃ Long-term storage (6 months): -20~35℃
Work environment temperature	Charge: -4°F to 122°F (-20℃ to 50℃) / Discharge: -4°F to 140°F (-20℃ to 60℃)
Operating Humidity	90%RH
Rated Capacity	469.5Ah
Nominal voltage	640V
Operating voltage range	400-740V
Specific capacity (Wh/kg)	>155Wh/kg
Shipment status SOC (%)	50±5%
Thermal management methods	Heating: liquid heat Cooling: Liquid Cooling
Battery Grouping Programs	3 C29 boxes in parallel for a total of 2P200S
Rated storage energy	300.48kWh
SOC Scope of Work	8%-100%
Energy available in the SOC operating range	276.44kwh
End-of-life usable energy	70%SOC
Rated charging current	800A
Peak Feedback Current	1000A
Rated discharge current	800A
Peak Discharge Current	1000A
Self-discharge rate/month	< 3%
Insulation requirements	≥8MΩ
Vibration requirements	The vibration transmitted to the electrical box by the whole vehicle bracket is not greater than GBT31467.3-2015 requirements
IP level	IP67
Cell Consistency	Capacity consistency ≤ 8%
Total mass of box	1950kg
Certification & Safety Standard	/

LiFePO4 BATTERY

HIGH-SPEED CAR BATTERY FOR LOGISTICS AND DELIVERY

115.2kWh medium and large logistics vehicle battery system

COST ADVANTAGE

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VOLUME ADVANTAGE

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LIGHTWEIGHT ADVANTAGE

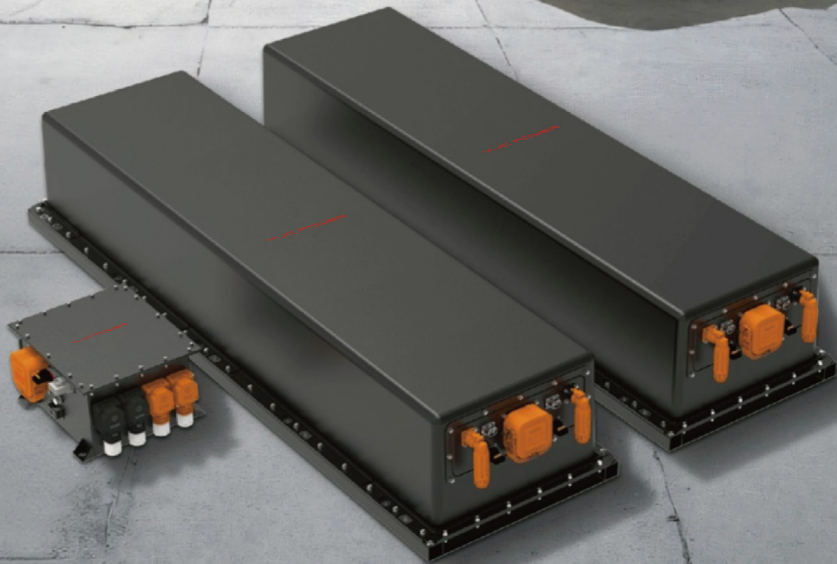
Lighter box weight, conducive to the lightweight of the whole vehicle

BATTERY LIFE ADVANTAGE

Excellent thermal management system, can meet 5000 times charge and discharge, service life of up to 10 years

CHARGE ADVANTAGE

1C high-power charging and discharging



FUNCTIONAL SPECIFICATIONS

Name	YJC-EV-M-512V225Ah-SE
Model	512225
Nominal Voltage	512V
Nominal Capacity	225Ah
Nominal Energy	115.2kWh
Cell Type	LiFePO4
Brake resistance	Prismatic

DISCHARGE SPECIFICATIONS

Continuous Discharge Current	225A
Peak Discharge Current	495A- 3sec
Peak Discharge Current	450A- 30sec
Protection Recover	Automatic
Low Voltage Disconnect	400V- 5 sec (2.5vpc)
Charging Mode	AC Slow Charge and DC Fast Charge
Low Voltage Reconnect	480V

CHARGE SPECIFICATIONS

Recommended Charging Current	110A
Max Charging Current	225A
Recommended Charge Voltage	584V max
High Voltage Disconnect	600V (3.7vpc) (5 sec)
High Voltage Reconnect	552V
Cooling Mode	Natural cooling
Heating Mode	PTC heating

MECHANICAL SPECIFICATIONS

Battery Pack Combination Mode	1 high voltage box and 2 battery boxes
Dimensions (LxWxH)	69.57x20.47x12.85 in (1767x520x326.5 mm)*2
Weight Of The System	936.96 lb (425 kg)
Charge And Discharge Interface	Power waterproof junction box
Low Voltage Power Supply	DC24V
IP level	IP67

ENVIRONMENTAL SPECIFICATIONS

Charge Temperature	-4°F to 122°F (-20°C to 50°C)
Discharge Temperature	-4°F to 140°F (-20°C to 60°C)
Operating Humidity	<90% RH
Storage Temperature	-4°F to 95°F (-20°C to 35°C)
Storage Humidity	25 to 85% RH

PROTECTION SPECIFICATIONS

Pack Overcharge Voltage	YES (Settable)
Cell Overcharge Voltage	YES (Settable)
Pack Overdischarge Voltage	YES (Settable)
Cell Overdischarge Voltage	YES (Settable)
Over Current	YES (Settable)
Short Circuit	YES (Settable)
Cell temperature	YES (Settable)
BMS temperature	YES (Settable)

COMMUNICION

CAN	Optional
RS485	Optional
Remote control	Optional

OTHER SPECIFICATIONS

Shipping classification	UN3480
Certi fications	UN38.3 (Battery Pack)
Fire extinguishing	Optional

LiFePO4 BATTERY

SHIP BATTERY APPLICATION

35kWh-179.2kWh high-voltage ship battery system

Standardized battery module design, can be connected in series up to 6 pieces;
Parallel connection between clusters is supported, and up to 10 clusters can be connected in parallel.

WARRANTY PERIOD

- ☐ 5years
- ☐ 10years



Model	YJC-ES-M-358.4V100Ah-SE
Battery Type	LiFePO4
Nominal voltage	358.4V
Rated capacity	100Ah@0.33C 25°C+3°C
Normal operating voltage range	280V~408.8V
Operating Temperature Range	Charging:0°C~55°C / Discharge: -20°C~55°C
Operating humidity range	5%~95%
Operating altitude range	-400m to 2000m
Vehicle Low Voltage	12V(9~16V national standard)
Dimensions (D*W*H)	Individual battery pack size:(870*540*220mm)
IP level	IP67
Series-parallel form	1P112S
DC internal resistance (normal operating voltage range, 25°C, SOC 50%)	≤1.5mΩ
Cycle life (initial capacity ≥80%) (25°C)	3500 cycles
End-of-life capacity	≥80% of nominal capacity
Self-discharge rate over life (50% charge state, 25°C)	3%/month
Single Battery Capacity	100Ah@0.33C 25°C+3°C
Maximum charge/discharge current	200A(SOC>50%, 30S, 25°C+3°C)
Charging temperature range	-4°F to 122°F (-20°C to 50°C)
Discharge temperature range	-4°F to 140°F (-20°C to 60°C)
Rated discharge power	35.84kW@1C(SOC>30%, 25°C+3°C)
Maximum continuous discharge power over life (within normal operating voltage range, the (lasting 60s)	35.84kW@1C(SOC>20%, 25°C+3°C)
Rated charging power	11.827kW@0.33C, 25°C+3°C
Insulation impedance	Meet the requirements of 18384.3 500V200MΩ
Cooling method	natural cooling
Battery PACK box weight	≤128kg
Energy density	140Wh/kg
Certification & Safety Standard	/

LiFePO4 BATTERY

SHIP BATTERY APPLICATION

43kWh-172kWh high-voltage ship battery system

WARRANTY PERIOD

- ☐ 5years
- ☐ 10years

Model	YJC-ES-M-345.6V125.4Ah-SE
Battery Type	LiFePO4
Nominal voltage	345.6V
Rated capacity	125.4Ah
Normal operating voltage range	270V~394V
Operating Temperature Range	Charging:0°C~55°C / Discharge: -35°C~55°C
Operating humidity range	5%~95%
Operating altitude range	-400m to 2000m
Vehicle Low Voltage	12V(9-32V national standard)
Dimensions (D*W*H)	Individual battery pack size:(700*450*260mm)
IP level	IP67
Series-parallel form	1P108S
DC internal resistance (normal operating voltage range, 25°C, SOC 50%)	≤1.5mΩ
Cycle life (initial capacity ≥80%) (25°C)	3500 cycles
End-of-life capacity	≥80% of nominal capacity
Self-discharge rate over life (50% charge state, 25°C)	3%/month
Single Battery Capacity	125.4Ah
Maximum charge/discharge current	376.2A(SOC>50%, 30S)
Charging temperature range	-4°F to 122°F (-20°C to 50°C)
Discharge temperature range	-4°F to 140°F (-20°C to 60°C)
Rated discharge power	43.2kW
Maximum continuous discharge power over life (within normal operating voltage range, the (lasting 60s)	43.2kW
Rated charging power	21kW
Insulation impedance	Meet the requirements of 18384.3 500V200MΩ
Cooling method	natural cooling
Battery PACK box weight	≤100kg
Energy density	145Wh/kg
Certification & Safety Standard	UN38.3