

522kWh ENERGY STORAGE CABINET

YJC-EES-H-R-522kWh



STRONG OUTPUT FOR LARGE-SCALE APPLICATIONS

Delivers consistent, high-capacity power for a wide range of industrial, commercial, and renewable energy applications, ensuring optimal system performance and efficiency.



MODULAR AND FLEXIBLE DESIGN

With a modular structure, the system can be configured to meet specific energy needs. This allows for easy scalability and system expansion as demand increases.



PRECISION LIQUID-COOLING FOR LONG-TERM STABILITY

The advanced liquid-cooling technology ensures thermal management and stability across the entire system, keeping battery temperatures within optimal ranges to prolong system life.



MULTI-LEVEL SAFETY PROTECTION

Equipped with comprehensive safety mechanisms, including a three-level fire protection system, automatic overcharge and overcurrent protection, ensuring safe and reliable operation under all conditions.



HIGH EFFICIENCY AND REDUCED ENERGY LOSS

The system's efficient design minimizes energy loss, maximizing power conversion and storage capabilities. It supports both AC and DC independent configurations, optimizing overall system performance.



INTELLIGENT ENERGY MANAGEMENT

Smart algorithms dynamically adjust charging and discharging processes for peak shaving, valley filling, and efficient energy usage, while continuous monitoring ensures safety and performance.



RELIABLE BACKUP POWER

The system includes integrated pass-through capabilities, ensuring critical systems remain powered during unexpected outages, providing seamless backup energy when needed most.



Model	YJC-EES-H-R-522kWh
Rated Energy	522kWh
Rated Input Voltage	832V
Rated Current of DC Side	150A
Maximum Continuous Current on the DC Side of a Single Cluster	165A
IP Level	IP54
Corrosion Resistance	C4
Dimension	2100mm×1390mm×2380mm (No air outlet mask included) ; 2100mm×1390mm×2622mm(Air outlet mask included)
Mass	5400kg
Appearance Color	RAL9016
Altitude	≤2000m
Operating Temperature	-20°C ~55°C
Environment Humidity	5% ~95%RH
Thermal Management	Liquid Cooling
Insulation Standard	≥1000Ω/V
Withstand Voltage	No breakdown and flashover
Refrigerating Capacity	3000W
Auxiliary Power Supply	Max:5000W (Refrigeration) ; Max:2000W(Heating)
Certification	UL1973/CE(IEC61000,IEC62477)/IEC62619/UN38.3
Communication Protocol	CAN/RS485/Ethernet
MODULE TECHNICAL SPECIFICATIONS	
Configuration	1P52S
Rated capacity	314Ah
Rated energy	52.25 kWh
Rated voltage	166.4V
Operating voltage range	130V ~189.8V
Recommended voltage range	148.6~187.2V
Dimensions	L1135.5mm×W779mm×H250mm
Mass	348±5kg
Continuous charging current	157A
Continuous discharging current	157A
Charging temperature range	0~55°C
Discharge temperature range	-20~55°C
Insulation	>1000Ω/V, 2500VDC
Withstand voltage	No breakdown, no flashover; 4500VDC
Thermal management	Liquid cooling/heating
CELL TECHNICAL SPECIFICATIONS	
Type	LFP
Rated Capacity (Ah)	314Ah
Rated Voltage (V)	3.2V
Operating Voltage (V)	2.5V ~3.65V
Rated Energy	1004.8Wh
Maximum Continuous Current	157A/157A(Chg/Dchg)
Maximum Pulse Current	280A/280A (Chg/Dchg)