



# 1P52S/52kWh Liquid-Cooled Energy Storage Pack

YXYP-52314-E Liquid-Cooled Energy Storage Pack

## Products Introduction

- The battery module PACK consists of 52 cells 1P52S and is equipped with internal BMS system, high voltage connector, liquid cooling plate module, fixed structural parts, fire warning module and other accessories. The battery module has over-voltage, under-voltage, over-current, insulation, short-circuit, over-temperature and other protection functions, and also has the function of quickly connecting external connectors for charging and discharging.
- The module consists of a standard 314Ah Lithium Iron Phosphate (LFP) square aluminium-cased battery cell, with a nominal capacity of 52.2496kWh and a nominal voltage of 166.4V. The operating voltage range is 140.4V to 187.2V. It includes structural parts and other accessories within the cluster.



### High Efficiency

Modular design, stackable building blocks, flexible configuration according to customer requirements, easy to install and maintain on site. IP67 protection level, stronger environmental adaptation.

### High Life Cycle

Liquid-cooled batteries with a cycle life of over 8,000 cycles, high efficiency and a design life of up to 15 years.

### High Performance

Excellent electrical performance with automatic laser welding, great battery consistency, low internal resistance and superior charge/discharge performance. Temperature difference of less than 3°C in the electric core, improving security.

## Company Profile



At RelyEZ, we take pride in being an innovative global forerunner in delivering reliable, safe and efficient energy storage solutions. Our ground breaking hardware and software are designed to transform the generation, distribution, and transmission of energy, supporting worldwide goals for decarbonization. With successful deployment of over 3000MWh of Battery Energy Storage Systems (BESS) in more than 50 projects, we have an ambitious contracted pipeline promising to deliver over 5000MWh of energy storage solutions worldwide within the next three years.

# System Parameters

Category	Item	Norm
Overall Parameters	Product Standard	UL 1973/IEC 62619
	Connection Method	IP52S
Battery Parameter	Rated Voltage	DC 166.4V
	Min Operating voltage	DC 166.4V
	Max Operating Voltage	DC 187.2V
	Max Continuous Charge/ Discharge Current	157A/0.5C
	Max Pulse Charge/Discharge Current(30s)	1C
	Self-Discharge Ratio	≤ 3 %/Month
	Rated Capacity	314Ah
	Rated Power	52.2496kWh
Basic Parameters	Energy Density	≥140Wh/Kg
	Cycle Life	≥6000 Times
	No. of Temperature Collection Points	26/Box(TBD)
	Insulation Grade	≥1000MΩ
	Storage Enironment Temperature	0 ~ 45°C, RH≤65%
	Battery Compartment Protection Class	IP67
	Cooling Method	Liquid-cooled
	Size[LxWxH]	1130x780x245(mm)
Weight	340±10kg	

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