RelyEZ Pack 52-2

Liquid-immersed Energy Storage Battery Modules
YXYP-52314-E



100% non-flammable and non-explosive, ensuring complete safety.

The battery cells immersed in insulating coolant are effectively isolated from oxygen. Even in the event of thermal runaway, the cells will not catch fire, explode, or emit smoke.

Cell temperature difference is less than 2°C, ensuring precise temperature control.

The immersion temperature control system is integrated with the BMS, enabling precise temperature control and intelligent adjustment. The system has a cycle life of over 12,000 times and a design life of up to 20 years.

Green environmental protection, high efficiency and more energy saving

Centralised cooling technology and AI control algorithms precisely regulate coolant flow, achieving intelligent system control, energy efficiency and high performance.

Operating temperature range from -40°C to 60°C, withstanding extreme environments.

Advanced thermal management strategy, sharply reduces the temperature difference between the upper and lower surfaces of the battery cells by 5°C, suitable for harsh environments such as extreme cold, high temperatures, high altitudes, and high winds and sand, ensuring stability and reliability.

Category	Item	Specification
Battery Parameters	Nominal Voltage	DC 166.4 V
	Minimum Operating Voltage	DC 130 V
	Maximum Working Voltage	DC 189.8 V
	Maximum Continuous Charging /Discharging Current	200 A / 0.5P
	Self-discharge Rate	≤ 3 %/month
	Nominal Capacity	314 Ah
	Nominal Power	52.249 kWh
	Energy Density	≥ 130 Wh/kg
Basic Parameters	Dimensions (L x W x H)	1230x810x260 mm
	Weight	380 ± 10 kg
	IP Rating	IP68
	Cooling Method	Immersion Liquid Cooling
	System Cycle Life	≥12000 cycles
	Number Of Temperature Acquisition Points	≥26 Pieces / Pack
	Insulation Class	≥1000 MΩ
	Storage Ambient Temperature	0 °C to 45 °C (32 °F to 113 °F), RH ≤ 65%
	Composition	1P52S

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