RelyEZ GridUltra

4.18MWh(0.25P)
Non-Walk-in Liquid-CooledEnergyStorage

Adopting customised non-walk-in containers, the modular design en-hances the space utilisation of the cabin. The advanced liquid cooling cycle reduces thermal runaway of the battery, effectively improving the safety of the energy storage systam and the whole life cycle of the bat-tery, providing a safer technical guarantee for the operation of the energy storage system.

System Components

- Energy storage system
  The battery compartment contains 10 clusters of batteries, 2DC converter, 1 power distribution cabi-net, 1 fire suppression system and a liquid-cooled system.
- Battery cluster
  Each battery cluster consists of 8 liquid-cooled battery modules and 1 high voltage control box in series.
- Battery module
  The single battery module is made up of 52 lithium iron phosphate cells in a 1P52S pack, with high energy density, wide temperature range, long life, high protection level and high safety features.

  The whole module consists of a battery core, se-ries-connected aluminum rows, end plates, plastic steel ties, liquid-cooled plates, housing, collection harnesses and SBMUs.

High Efficiency

Customised non-walk-in containers, modular design, high energy density, speedy project delivery, easy installation and maintenance.

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 Safety

Liquid-cooled modules with IP67 protection level, intelligent fire protection system design, multi-point monitoring and warning. Tem-perature difference of the cell is less than 4°C, excellent temperature homogeneity.

Company Profile

At RelyEZ, we take pride in being an innovative global forerunner in delivering reliable, safe and ecient 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 7GWh of Battery Energy Storage Systems (BESS) in more than 100 projects. RelyEZ explores ove-rseas markets and we have teams in Europe, North America, Singapore and India.

System Parameters

Category	Item	Specification
Battery Parameters	Configuration	10P416S
	Rated Power	4179.968kWh
	Rated Voltage	DC 1331.2V
	Voltage Range	DC 1164.8~1497.6V
System Parameters (0.25P)	Rated Charging Current	785A
	Maximum Charging Current	1000A
	Rated Charging Cower	1045kW
	Rated Discharge Current	785A
	Maximum Discharge Current	1000A
	Rated Discharge Power	1045kW
	Auxiliary Power Supply Voltage	AC 380V, 50Hz, four wire three phase
	Auxiliary Power Supply Power	Max 35kW
	Charging Operating Environmental Temperature	0~+55℃
	Discharge Operation Environmental Temperature	-20~+55℃
	Storage Temperature	-20~+45℃
	Application Altitude	≤3000m/<4000m (available , derate)
Basic Parameters	Dimension[LXWxH]	6058x2438x2896 (mm)
	Weight	About 38t
	IP Rating	IP55
	Cooling Method	Liquid-cooled

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