RelyEZ Pack Series

52kWh
Liquid-Cooled Energy Storage Module



Product Introduction

The battery module consists of 52 prismatic 314 Ah LFP cells (1P52S) and is equipped with internal BMS system, high voltage connector, liquid cooling plate module, fixed structural parts 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.

RelyEZ's highly reliable and safe module is the result of over a hundred projects delivered, and several R&D iterations.

High Efficiency

Modular design with stackable modules and customizable configurations, easy to install and maintain on site. The module offers an IP67 protection level, making it suitable for the harshest environments.

High Life Cycle

Liquid-cooled modules with a cycle life of over 8000 cycles, high efficiency and a design life of up to 15 years.

High Performance

Manufactured using high-end automatic laser welding ensures the module's excellent electrical performance, low internal resistance and improved round trip efficiency. The module's advanced thermal management system achieves a gradient of temperature within the module of less than 3°C, which translates into safer and more efficienct systems.

Category	Item	Specification
Overall Parameters	Configuration	1P52S
Battery Parameters	Nominal Voltage	DC 166.4 V
	Min Operating Voltage	DC 140.4 V
	Max Operating Voltage	DC 189.8 V
	Max Continuous Charge/ Discharge Current	157 A / 0.5 C
	Max Pulse Charge/Discharge Current (30s)	1 C
	Self-Discharge Ratio	≤ 3 %/month
	Nominal Capacity	314 Ah
	Nominal Energy	52.2496 kWh
	Energy Density	≥ 140 Wh/kg
Basic Parameters	Cycle Life	≥8000 cycles
	No. of Temperature Collection Points	≥26/Module
	Insulation Grade	≥100 MΩ
	Storage Environment Temperature	0 °C to 45 °C (32 °F to 113 °F), RH ≤ 65%
	IP Rating	IP67
	Cooling Method	Liquid-Cooled
	Dimensions (L x W x H)	1132 x 780 x 242 mm(44.57 x 30.71 x 9.53 in)
	Weight	325 ± 10 kg

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