



1P416S/373kWh Liquid-Cooled Energy Storage Battery Cluster

YXYC-416280-E Liquid-Cooled Energy Storage Battery Cluster

Products Introduction



- Using 280Ah LiFePO4 cells, consisting of 1 HV control box and 8 battery pack modules, system IP416S.
The battery cluster consists of 8 battery packs, 1 HV control box, 9 battery racks with insertion box positions, power harness in the cluster, BMS power communication harness, and battery box fixing structural components.
- The battery cluster contains a battery management system. The BCM acts as the cluster control module and is connected to the BMU, which can authenticate and interact with the battery box BMU on the CAN network, obtain information such as battery voltage and temperature, and process and report accordingly according to the established protection strategy.
- The BCM is also responsible for the battery current acquisition, the detection of insulation and the associated alarm and protection measures.

High Performance

Liquid cooling method, core temperature difference $< 3^{\circ}\text{C}$, efficient heat dissipation, improve system circulation efficiency. IP67, optional package level directional pressure suppression.

High Life Cycle

Liquid-cooled batteries with a cycle life of over 6,000 cycles, high efficiency and a design life of up to 15 years.

High Efficiency

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

Company Profile



At RelyEZ, we take pride in being an innovative global forerunner in delivering reliable, safe and efficient energy storage solutions. Our groundbreaking 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	System Grouping Method	1P416S
Battery Parameter	Rated Voltage	DC1331.2V
	Operating Voltage Range	DC 1164.8~1497.6V
	Max. Continuous Charging Current	140A
	Max. Continuous Discharge Current	140A
	Peak Discharge Current	180A
	Sell-discharge Rate	3%/Month
	Ratod Energy	372.736kWh
	Rated capacity	280Ah
	Monoblock Di erential Pressure	20mV
	Consistency of Internal Resistance(AC)	0.25mΩ
Basic Parameters	PACK Capacity Consistency	4Ah
	Insulation Requirements	30MΩ
	System Cycle Life	6000Times
	Discharge Ambient Temperature	0~55℃
	Charging Ambient Temperature	-20℃~ 55℃
	Size[LxWxH]	950x1260x2400(mm)
	Standard Weight	3000±50kg
Ingress Protection	IP67(Battery Box)	

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