

Outdoor Liquid Cooling BESS Cabinet



High Energy

- As 306 Ah cells were initially adopted in this PowerSupply System, 320 Ah cells are recommended for capacity expansion.
- Special cells with a standard cycle of 10000 times dedicated for energy storage adopted in the System secures a continuous operation for 20 years.



High Security

- With a DC 5000V withstand voltage without flash-over, multi-layer disconnection protection mechanism, IP68 level ingress protection for the Boxed Battery System, 1000 hour high-temperature reliability test for the pipeline, a high-level system safety is secured.
- The "3+2" fire prevention and control measures include fire protection at module level + fire protection at the container level, fire protection with gas + fire protection with water combustible gas detection combustible gas venting, and explosion relief.



High Compatibility

- The three-level BMS architecture of General Control, Master Control and Slave Control is compatible with local EMS functions and various mainstream communication protocols.
- The adoption of centralized refrigeration, multi-stage pipelines, and co-current flow in parallel flow design facilitates a temperature difference of 3 °C for the container
- Each outdoor unit integrates a Water Cooling System, a Fire Protection System, a DC Control System independently in a installation completion design for an easy transportation of the complete equipment.

Containerized Battery System With Liquid Cooling

System Technical Specification		
Items	Spec	Remark
Product Code	Y52R08	/
Configuration	1P4165	/
Rated Energy	186.35kw/372.7kWh	100%DOD-25°C-0.5C
Rated Voltage	1331.2V	/
Operating Voltage Range	1164.8~1497.6V	For cell 2.8V~3.6V
Dimension	1300mmx1300mmx2300mm	D*W*H
Mass	≤3500kg	/
Altitude	≤3000m	/
Environment temperature	-30°C~55C	/
Environment humidity	5%~90%RH	/
Rated charge current	140	/
Rated discharge current	140A	/
Pulse charging current	280A	s1min
Pulse discharging current	280A	s1min
Temperature in cabinet	-20~50°C	/
IP level	IP54	/
Efficiency	≥92%	/
Insulation resistance	≥1000Ω/V	Test voltage 1000Vd
Withstand voltage	≤5mA,no breakdown and flashover	5000VDC
Thermal management	Liquid cooling/heating	/
Refrigerating Capacity	8kW@45CEt	/
Heating Capacity	3kW	PTC: 3kW
Auxiliary power supply	Aver:3.35kW Max:5.2kW	Including BMS andTMS
Communication protocol	CAN	/
Implementation criteria	UN38.3,UL1973,IEC62619,UL9540A, GB/T 36276	For cell
	IEC62477、IEC62619、EC 62933-5-2、IEC63056、UL1973、UL9540A、IEC61000-6-2/4、UN3480	For system

Related certificates

