ALL IN ONE

tuya

BCH-100230

100kW 230kWh Liquid-cooling Energy Storage Cabinet



CE CB MSDS IEC EMC UN38.3 CEI 0-21 CE-LVD

Product Advantages

【Advanced Fire Protection Design】

Three-level fire protection, with built-in fire detectors, aerosol modules, sound and light fire alarms, EMS modules + Gateways, and immersion sensors.

【Comprehensive Application Scenarios】

Can be used for photovoltaic self-use, peak shaving and valley filling.
Reserved for integrated systems, off-grid black start.

【Three-Phase topology 】

Three-phase four-branch inverter, with a three-phase imbalance coefficient of 0% and a power factor (PF) of 1.

【Liquid Cooling System】

Circulating liquid cooling, low noise, low loss.

【 Safety and Durability Appearance 】

Outdoor cabinet anti-corrosion, flame retardant design, battery compartment IP65, electrical compartment IP54.

【Highly Flexible Design】

Supports parallel operation of 2-10 units, with reserved MPPT expandable space.

【Wide Range of Application Scenarios】

Can be used for photovoltaic self-use, peak shaving and valley filling, reserved integrated systems, and off-grid black start.

【Intelligent Platform Operation and Maintenance】

SaaS all-day remote monitoring platform with data independence, real-time tariff collection, AI intelligent scheduling, 0.001Hz accuracy, and time scheduling can be completed within 0.2s.

Product Parameter

PV Interface （Options）	
PV Input voltage	300-570Vdc
Max PV Input Power	100KW
Number of PV String	1
Max PV Input Current	200A
Max PV Open Circuit Voltage	600V
BATTERY PARAMETER	
Cell Type	LiFePO4
Cell Specification	3.2V/100Ah
System Configuration	3P240S
Rated Capacity	230.4kWh
Voltage Range	684~852V
AC PARAMETERS(ON-GRID)	
Rated Output Power	100kW
Rated Output Current	140A
AC Connection Method	Threephasefourwiresystem
Grid Voltage Range	400V（-20%~+15%）
Grid Frequency Range	50Hz/60Hz±2.5Hz
AC PARAMETERS(OFF-GRID)	
AC off-grid Voltage	AC400V
AC Voltage Range	AC400V±3%
AC off-grid Frequency	50Hz/60Hz
Unbalanced Load Capability	100%

GENERAL PARAMETERS	
Dimension(W*D*H)	1320*1280*2370mm
Max Weight	2500KG
Operating Temperature Range	-20℃~50℃
Working Altitude	< 2000m
Temperature ControlMethod	Battery：Liquidcooling; Electricalcompartment：windCooling