All-in-one C&I Battery Energy Storage System

TB215KWH-2H-Y liquid-cooled energy storage system highly integrates LiFeP04 battery, BMS, PCS, EMS, fire protection system, temperature control system and cloud platform. The energy storage system adopts integrated innovative design, with higher safety standards, easier management and higher benefits. It can flexibly meet various needs and provide low-carbon and high-yield solutions for different application scenarios.

- Highly integrated battery, BMS, PCS, EMS, fire protection, temperature control and other systems;
- Standardized and modular design, plug-and-play, building block expansion;
- Full coverage of application scenarios, supporting AC three-phase three-wire and three-phase four-wire;
- Supports on-grid and off-grid applications, with PQ, VF, VSG, constant DC voltage and other operating modes;
- With primary frequency modulation function;
- With three-phase 100% unbalanced load;
- Support black start, anti-back flow, overload protection and other functions
- Support Ethernet and wireless communication

TB215KWH-2H-Y	
System	
Nominal capacity	215kWh
Nominal output power	100kW
Battery cycle time	＞6000 times（25℃）
Protection level	IP55
Operating temperature	-30℃~+50℃（>45℃ Derating）
Cooling method	Liquid cooling
Fire protection	Aerosol
Altitude	≤4000m(>2000m Derating)
Dimension	1050*1300*2350mm
Weight	≈2400kg
AC (on-grid)	
Nominal power	100kW
Nominal voltage	400V
Nominal current	144A
Nominal frequency	50Hz/60Hz
Power factor	-1~1
AC access method	3W/3W+N
Overload capacity	1.1times（long term），1.2time（1min）
DC battery	
Cell Type	LFP3.2V/280Ah
Battery system configuration	215kWh/1P240S
Maximum charge / discharge power	110kW
Nominal voltage	768V
Battery voltage range	672V-864V
Charging/Discharging Method	Constant power charging/discharging (dynamically adjustable, maximum 100KW)
AC (off-grid)（optional）	
Max power of important load	110kW
Nominal voltage	400V
Nominal frequency	50Hz/60Hz
Long term overload capacity	110%
On-grid and off-grid switching time	<2s