ESC Series

C&I Solar Power & Energy Storage Solution

Energy Storage System

TB215KWH-2H-Y

Safe and Reliable

- Multi-layered protection and alert design to monitor short circuits, overcurrent, overvoltage, and overheating in real time.
- Three-Tier Fire Suppression: Modular fire containment, cluster-level isolation, and water mist suppression for rapid emergency response.

Efficient and Reliable

- Powerful 5kW liquid cooling system to handle high-temperature environments effectively.
- Maintains a temperature difference of less than 3°C across cells, increasing system lifespan by over 20%.

Integrated and Flexible

- Fully integrated system including lithium iron phosphate batteries, BMS, PCS, EMS, fire suppression, and liquid cooling systems, reduce commissioning work on site.
- 215kWh capacity with a single-unit footprint of just 1.36°C, allowing for flexible installation and easy expansion.

Smart and Robust

- Ecosolex Cloud Platform, support remote monitoring, parameter adjustment, system upgrades, data analysis, and fault diagnosis at your fingertips.
- On-site maintenance and repairs made easy with a user-friendly mobile app.

About Ecosolex

As a sub-brand of Shenzhen Topband Co., Ltd., Ecosolex delivers advanced solar, storage, and charging solutions for residential, commercial, and industrial use. Backed by Topband's decades of expertise, over 2,000 research professionals, and more than 3,200 patents, we provide reliable, safe, and sustainable energy systems. With 15 global production and R&D bases, Ecosolex empowers customers worldwide to achieve energy independence and contribute to a greener, more sustainable future.

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Energy Storage System

Certified model number: TB215KWH-2H-Y

Technical Parameters

System	
Nominal capacity	215kWh
Nominal output power	100kW
Battery cycle time	>6000 times (25°C)
Protection level	IP55
Operating temperature	-30°C~+50°C(>45°C 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

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