

E²Stack-5000-C

Superb safety, triple level fire protection & big data monitoring guarantee early warning and accurate fire suppression

High power density, 5MWh+ in 20ft container, suitable for side-by-side configuration, support fast deployment

Better battery management, with exclusive patent for parallel pipeline flow control to guarantee better heat dissipation for each battery pack

Modular design, easy for power expansion from 418kWh~5015kWh



Superb safety

- Triple level fire detection guarantee early fire alarm, with accurate and rapid extinguish material spraying achieves higher material utilization, and slow the fire process;
- Cloud intelligent operation analysis provide panoramic surveillance and full dimensional warning, to identify potential risk early and take action correspondingly;

High economical performance

- 314Ah LFP with high energy density and prolonged cycle life realize a 30% cost reduction per kWh;
- 5MWh+ in one 20 ft container, side-by-side layout, realize 40% foot print reduction;

Better battery management

- Independent cooling pipeline for each battery pack, with exclusive patent for parallel pipeline flow control to guarantee better heat dissipation for each battery pack;
- Intelligent variable frequency control of the cooling system, well management of the auxiliary power consumption;

Increasing flexibility

- Flexible system topology for various scenarios, including the power generation side, grid side, and user side;
- Modular design, easy for power expansion from 418kWh~5015kWh;



Technical Parameters of 5MWh battery container

Model	E ² Stack-5000
Basic parameters	
Configuration	12* (1P104S*4)
Group solution	12P416S
Rated voltage	1331.2V DC
Voltage range	1164.8~1497.6V DC
Rated energy	5.015MWh
Rated charging power	2.5MW
Rated discharging power	2.5MW
Auxiliary power supply	380VAC+10% (three-phase four-wire system)
Cooling method	Forced liquid cooling
Coolant	50% ethylene glycol in water
General parameters	
Storage temperature	-30~+55°C
Operating temperature	-30~+50°C
Relative humidity	0~95% (no condensation)
Altitude	≤2000m (>2000m for derating)
IP degree	IP54
Dimensions (LxWxH)	6058*2438*2896mm
Weight	≤42.5T
Communication protocols	IEC61850/IEC104/MODBUS

Technical Parameters for the battery module

Product	Battery module
Cell capacity	3.2V/314Ah
Cell material	LiFePO ₄
Combination method	1P104S
Rated voltage	2772A
Rated voltage	260~379.6Vdc
Recommended charging&discharging rates	0.5P
Rated energy	104.499kWh
Weight	683±8kg
Dimensions (LxWxH)	2216*790*240mm
Cooling Method	Liquid cooling
IP degree	IP67
Equilibrium method	Passive equilibrium
Communication interface	CAN2.0

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