

2.5MW/5MWh Liquid Cooling ESS

ESS-2507-5015kWh-H



Advantages and Features



Efficient

Intelligent string architecture, single-cluster management.

Bi-Liquid-cooling temperature control design, battery pack temperature difference $<3^{\circ}\text{C}$,

Low noise without fan in PCS and it's easy to maintain



Flexible

All-in-one design with smaller footprint, easy transportation and higher power density in a standard size of 20ft

Easy to be installed and layed out with being commissioned in factory



Safe

CATL's battery cells and BMS system meet PPB level failure rates, providing intrinsic safety for the system

Intelligent four-level fire protection to ensure safety



Intelligent

Cloud platform online monitoring, real-time system fault warnings

Support remote and local upgrades for key equipment

High-precision BMS, accurate SOC calibration, no expert on-site required

Specifications

Product Model	ESS-2507-5015kWh-H
DC Side	
Cell Type	CATL LFP/314Ah
Rated Energy	5015.96kWh
Operating Voltage Range	1040~1518.4Vdc
Charge/Discharge C-Rate	≤0.5P
On-grid Side	
Rated Output Power	2507kW
Rated Output Voltage Range	690Vac (-15%~+10%)
Rated Grid Frequency	50Hz/60Hz(±5Hz)
Output Power Factor	-1~+1
Operating Phase	3L+PE
Efficiency	
Max. Efficiency	89%
General Data	
Surge Protection	DC Type II / AC Type II
Pollution Level	Class 3
Fire Control	Aerosol+Water spray
Ingress Protection	IP55
Installation Method	Outdoor installation
Battery Cooling Concept	Liquid cooling
Running Temperature	-30°C~+60°C(Derating above 50°C)
Operating Surroundings Humidity	0~95%(No condensation)
Permissible Altitude	≤2000m
Cabinet Size (WxDxH)	6058*2438*2896mm
Weight	<45T
Display	LED+Web+APP
Interface	RS485, Ethernet, 4G
Safety EMC / Standard	GB/T36276, GB/T34131, GB/T 34120, GB/T 34133 IEC 62477-1, IEC 61000-6-2, IEC 61000-6-4, IEC62619, UL9540A