

# 0.92MW/1.86MWh Liquid Cooling C&I ESS

## ES1863/920K-A/EU



### ■ Advantages and Features



Three-level topology, conversion efficiency up to 99.0%



Liquid-cooling temperature control design, battery pack temperature difference <math><3^{\circ}\text{C}</math>, auxiliary power consumption reduced by 30%, extending system lifespan by 2 years+



CATL long-life LFP battery cells, cycle life > 8000 times



Intelligent string architecture, single-cluster management



Thermal runaway detection & Perfluorohexanone & Water spray, three-level fire linkage

## Specifications

Product Model	ES1863/920K-A/EU
DC Side	
Cell Type	LFP/280Ah
Rated Energy	1863.68kWh
Rated Battery Voltage	832Vdc
Operating Voltage Range	728Vdc~936Vdc
Max. DC Current	140A
Battery Configuration/Cluster	1P52S*5
Number of Battery Clusters	8
Charge/Discharge C-Rate	≤0.5P
On-grid Side	
Rated Output Power	931.84kW
Rated Output Voltage	380Vac
Rated Output Voltage Range	-15%~10% (Adjustable)
Rated Grid Frequency	50Hz/60Hz (±5Hz)
Output Power Factor	-1~+1
Operating Phase	3L+N/3L+N+PE
Adaptation to Grid Types	TT/TN
Topology	Transformerless
Efficiency	
Max. Efficiency	90%
General Data	
Surge Protection	DC Type II / AC Type II
Pollution Level	Class II
Fire Control	Perfluorohexanone
Ingress Protection	IP54
Installation Method	Outdoor installation
Battery Cooling Concept	Liquid cooling
Running Temperature	-30°C~+55°C (Derating above 45°C)
Operating Surroundings Humidity	0~95% (No condensation)
Permissible Altitude	≤2000m
Cabinet Size (WxHxD)	6058*2896*2438mm
Weight	<25T
Display	LED+Web+APP
Interface	RS485, Ethernet, 4G
Safety EMC / Standard	EN 62477-1, EN 61000-6-2, EN 61000-6-4, EN 50581, IEC 62474, IEC 62321

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