

5.X String-type Liquid Cooling Energy Storage System

CESS-L5016-STR-0.5C
CESS-L5016-STR-0.25C

The string energy storage realizes one-cluster-one-management. Each battery cluster independently controls charging and discharging to avoid the influence of circulating current and realizes fault isolation. The system supports the mixed use of new and old batteries. Long-life battery cells are adopted, and the system life is increased by 30%. The BMS (Battery Management System) adopts an active equalization scheme and is equipped with PACK-level fire protection. The noise of the whole cabin during operation is less than 75 dB(A)

Product Features

-  Safe
-  Effective
-  Intelligent management
-  Long life cycle and low noise



Product Parameters

PRODUCT MODEL	CESS-L5016-STR-0.5C	CESS-L5016-STR-0.25C
DC-side Parameters		
Cell Type	LFP 3.2V/314Ah	LFP 3.2V/314Ah
Capacity	5.016MWh	5.016MWh
DC Voltage Range	1081.6V ~ 1497.6V	1081.6V ~ 1497.6V
Thermal Management System	Smart liquid cooling/heating for battery system	Smart liquid cooling/heating for battery system
Fire Detection and Alarm	Fire alarm panel, heat and smoke detection, alarm bell and strobe	Fire alarm panel, heat and smoke detection, alarm bell and strobe
Fire Suppression Options	Aerosol-based suppression system. Flooded fire protection systems	Aerosol-based suppression system. Flooded fire protection systems
Noise@1m distance	≤75dB (A)	≤75dB (A)
PACK-Level Fire Protection	Yes	Yes

System Parameters		
Dimensions	6058×2438×2896mm	6058×2438×2896mm
Weight	≤44t	≤44t
Operating temperature rang	-30℃~55℃	-30℃~55℃
Relative humidity	0% ~ 100%	0% ~ 100%
Ingress protection rating	IP55	IP55
Max. altitude	4000m (> 2000m derating)	4000m (> 2000m derating)
Communication Protocol	Modbus TCP、IEC104、IEC61850	Modbus TCP、IEC104、IEC61850
Certificate	IEC 62619,IEC 63056,IEC61000, IEC 62477-1,IEC62933-5-2, UN3536,UN 38.3, UL9540A	IEC 62619,IEC 63056,IEC61000, IEC 62477-1,IEC62933-5-2, UN3536,UN 38.3, UL9540A