

5.X Centralized Liquid Cooling Energy Storage System

CESS-L5016-EU-0.5C
CESS-L5016-US-0.5C

The system integrates long-life battery, battery management system, thermal management system, active safety management system and intelligent power distribution system and applies to all kinds of scenarios. Several sets of PCS are connected in parallel on the AC side, and this is safe, efficient and intelligent.

Product Features

- Safe
- Reliable
- High efficiency
- Support the network construction
- Fast frequency modulation



Product Parameters

PRODUCT MODEL	CESS-L5016-EU-0.5C	CESS-L5016-US-0.5C	CESS-L5016-EU-0.25C	CESS-L5016-US-0.25C
DC-side Parameters				
Cell type	LFP 3.2V/314Ah	LFP 3.2V/314Ah	LFP 3.2V/314Ah	LFP 3.2V/314Ah
Capacity	5.016MWh	5.016MWh	5.016MWh	5.016MWh
DC Voltage Range	1081.6V - 1497.6V	1081.6V - 1497.6V	1081.6V - 1497.6V	1081.6V - 1497.6V
System Configuration	416S12P	416S12P	416S12P	416S12P
Thermal Management	Smart liquid cooling/heating for battery system	Smart liquid cooling/heating for battery 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 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	Aerosol-based suppression system. Flooded fire protection systems	Aerosol-based suppression system. Flooded fire protection systems

System Parameters				
Dimensions of Battery Container	6058×2438×2896mm	6058×2438×2896mm	6058×2438×2896mm	6058×2438×2896mm
Weight of Battery Container	≤44t	≤44t	≤44t	≤44t
Operating temperature range	-30℃~50℃	-30℃~50℃	-30℃~50℃	-30℃~50℃
Relative humidity	0% - 100%	0% - 100%	0% - 100%	0% - 100%
Ingress protection rating	IP55	IP55	IP55	IP55
Max. altitude	4000m(> 2000m derating)	4000m(> 2000m derating)	4000m(> 2000m derating)	4000m(> 2000m derating)
Communication Protocol	Modbus TCP, IEC104, IEC61850	Modbus TCP, IEC104, IEC61850	Modbus TCP, IEC104, IEC61850	Modbus TCP, IEC104, IEC61850
Certificate	IEC 62619, IEC 63056, IEC61000, IEC 62477-1, IEC62933-5-2, UN3536, UN 38.3	UL 1973, UL 9540, UL 9540A, FCC part 15B, NFPA69, UN3536, UN 38.3	IEC 62619, IEC 63056, IEC61000, IEC 62477-1, IEC62933-5-2, UN3536, UN 38.3	UL 1973, UL 9540, UL 9540A, FCC part 15B, NFPA69, UN3536, UN 38.3