






6.X Liquid Cooling Energy Storage System

CESS-L3125-0.5C
 CESS-L6250-0.5C
 CESS-L3450-EU-0.5C
 CESS-L6901-EU-0.5C
 CESS-L6250-0.25C
 CESS-L3125-0.25C

The system features large battery cells with high energy density, efficiency, and safety. It integrates batteries, BMS, thermal management, fire protection and environmental control system within a standard 20 or 10-foot container. This system meets application requirements at megawatt-level and above.

Product Features

-  **Safer**
Multi-level safety (cell, component, system).
Passed all national safety tests.
-  **More Efficient**
Single-container energy density increased by 20% ~ 38%.
Auxiliary power consumption per unit capacity reduced by 5%.
-  **Smarter**
Battery cell temperature uniformity improved by 5%, temperature difference $\leq 5K$.
CRRC Smart Energy Cloud Platform provides 24-hour AI diagnostics, reducing maintenance cost by 20%.
System noise $\leq 75dB(A)$
-  **Large capacity**
-  **Suitable for operation in environments ranging from -30 to 55°C**



Product Parameters

PRODUCT MODEL	CESS-L3125-EU-0.5C/0.25C CESS-L3450-EU-0.5C	CESS-L6250-EU-0.5C/0.25C CESS-L6901-EU-0.5C
Product Parameter		
Cell type	LFP 3.2V/587Ah/648Ah	LFP 3.2V/587Ah/648Ah
Capacity	3.125MWh/3.450MWh	6.250MWh/6.901MWh
DC Voltage Range	1081.6V ~ 1497.6V	1081.6V ~ 1497.6V
System Configuration	416S4P	416S4P/416S8P
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	$\leq 75dB(A)/\leq 80dB(A)$	$\leq 75dB(A)/\leq 75dB(A)$
PACK-Level Fire Protection	/Yes	/Yes
System Parameter		
Dimensions of Battery Compartment	2991*2438*2896mm	6058*2438*2896mm
Weight of Battery Compartment	$\leq 26t/\leq 28t$	$\leq 48t$
Operating temperature range	-30°C~55°C	-30°C~55°C
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
Certification	IEC 62619, IEC 63056, IEC 61000, IEC 62477-1, IEC 62933-5-2, UN3536, UN38.3, UL9540A	IEC 62619, IEC 63056, IEC 61000, IEC 62477-1, IEC 62933-5-2, UN3536, UN38.3, UL9540A