

Liquid-cooled Hybrid 10ft Container



The 20-ft liquid-cooled ESS container integrates PACK, EMS, BMS, HVAC, and fire suppression system "FSS" into a single container. Designed for demanding applications, the 20-ft liquid-cooled ESS container is suitable for power generation, grid, and commercial & industrial (C&I) ESS scenarios that require high power and flexible capacity.

375KW 723KWh

Features



Higher Energy Density

The 10-ft liquid-cooled energy storage container offers a maximum capacity of 723KWh, delivering higher energy density and reducing overall costs.



Lower Operating Noise

Minimized fan usage significantly reduces operating noise compared to air-cooled solutions.



Better Temperature Control

The liquid cooling system maintains cell temperature differences below 3°C, improving voltage consistency and overall performance.



Lower Self Power Consumption

A variable-frequency compressor adapts to temperature conditions, reducing the system's power consumption.



Longer Service Life

Enhanced cell temperature consistency extends battery life, increases safety, and improves return on investment.



Higher Protection

The container features an IP55-rated enclosure (PACK IP65), up to C5 corrosion protection, and high/low-temperature design for robust environmental resistance.

Liquid-Cooled Hybrid

PRODUCT DESCRIPTION

Item	
DC Side Parameters	
Battery Type	LFP 314Ah
System Configuration	1P240S×3
Rated Energy	723kWh 100% DOD, (25±2)°C, 0.5P
Rated Voltage	768V DC
Recommended Operating Voltage	DC 672~864V Cell min. 2.8V, Cell max. 3.6V
AC Side Parameters	
Rated Output Power	375kW
Max. AC Power	412kW (continuous for 1min)
Rated Grid Voltage	400V AC/3P+N+PE
Rated Grid Frequency	50Hz/60Hz
AC Current THD	≤3%
DC Component	<0.5% I _{pn}
Power Factor Range	-0.99~+0.99 (adjustable)
System Parameters	
Energy Conversion Efficiency	≥88% (excluding auxiliary power of storage cabinet)
Charge/Discharge Rate	≤0.5P
Depth of Discharge	95% DOD
Ingress Protection	IP55
Cooling Method	Active liquid cooling
Operating Temperature	-25~55°C
Relative Humidity	0~95% RH (non-condensing)
Operating Altitude	≤2000m; derated above 2000m, max. 4000m
Dimensions (W×D×H)	2991×2438×2591mm
Gross Weight	Approx. 10t
Fire Protection	PACK-level aerosol + space-level aerosol fire extinguishing
Communication Interface	Ethernet / RS485
Compliance Standards	GB/T 36276, GB/T 34120, GB/T 34131, UN3536, IEC 62619, IEC 63056, UL 9540A, IEC 62477, IEC 61000