

COS 5015

Containeropslag

The 20-ft liquid-cooled ESS container product integrates PACK, EMS, BMS, HVAC, fire safety system into one container. Compared with the air cooling, the liquid cooling empowers the ESS product with higher power density and ensures the cell temperature difference less than 3°C, which effectively extends battery service life and improves energy efficiency. The 20-ft liquid-cooled ESS container product can be applied to power generation side, grid side, as well as C&I ESS scenarios which has strict requirements on power and capacity.



Features

Higher Energy Density

The 20-foot liquid-cooled energy storage container has a maximum capacity of 5.015MWh, providing higher energy density, and saving costs.

Lower Operating Noise

The product significantly reduces the use of fans, resulting in lower noise compared to air-cooled products.

Better Temperature Control

In comparison to air cooling, the liquid cooling scheme keeps cell temperature difference less than 3°C, which improves cell voltage consistency.

Lower Local Power Consumption

The variable-frequency compressor adjusts its operating status based on temperature conditions, thus reducing the equipment's power consumption.

Longer Service Life

The cell temperature consistency extends the battery service life by 5% and enhances the safety of batteries, and increases returns.

Higher Protection

The product utilizes the IP55 (PACK IP65) high protection level & C4 protection level and the high/low-temperature design.

Specifications

Item

Configuration
Rated Energy
Rated Voltage
Voltage Range
PACK Ingress Rating
Charge/Discharge Rate
Operating Temperature
Fire Safety
Ingress Rating
Cooling
Altitude
Dimensions (W*D*H)
Compliance

Specification

12P416S
5.015MWh
1331.2Vdc
1164.8 ~ 1497.6Vdc
IP65
0.5C
-25°C ~ 55°C
Aerosol+water
IP55
Chiller+liquid cooling
<2,000m (derating above 2,000m)
6,058*2,550*2,896 (mm)
Pack: UN38.3, IEC62477, IEC61000, IEC62619, IEC63056
System: IEC62477, IEC61000, IEC62619, IEC63056, UL9540A, UN3536, EN50549