**ContainerPower Energy Solutions**

# Liquid Flow Battery Container System ESS Power Base Station

## Overview

Ranging from 208kWh to 418kWh, each BESS cabinet features liquid cooling for precise temperature control, integrated fire protection, modular BMS architecture, and long-lifespan lithium iron phosphate (LFP) cells.What is an ESS Battery Cabinet?

It stores electrical energy for later use, enhances energy efficiency, and provides backup power. Outdoor battery cabinet with IP55 protection level, inbuild lithium-ion battery and BMS. ATESS 3.993/5.015MWh 20-ft liquid-cooled ESS container integrates PACK, EMS, BMS, HVAC, and fire safety system into one cabinet.

What is a battery energy storage system?

Battery energy storage systems store surplus energy during periods of high energy production and then release it during peak demand to meet residential, C&I, and utility-scale needs, while also provide auxillary services for grid peak and frequency regulation.

What is a 20 ft liquid cooled ESS container?

The 20-ft liquid-cooled ESS container product can be applied to the power generation side, grid side, as well as C&I ESS scenarios that have strict requirements on power and capacity. Indoor battery cabinet with IP20 protection level, inbuilt lithium-ion battery and BMS.

What is intelligent distributed energy storage system?

“Intelligent Distributed Energy Storage System” is part of smart grid and it is available to support critical load, improve power quality and increase grid flexibility. Product solutions cover the application of on power generation, power transmission, and user-end applications. Long-cycle energy storage battery, which reduces the system OPEX.

What is a Bess 365kwh energy storage system?

BESS-365kWh Liquid-Cooled Energy Storage System The BESS-365kWh provides a strong balance between capacity and space-saving design, making it a cost-effective solution for commercial and medium-scale industrial use. Equipped with high-efficiency cooling and energy-dense $LiFePO_4$ cells, it offers high reliability and reduced maintenance.

How ESS works?

The “electricity quality” to maintain the grid frequency and voltage, which was handled by the increase/decrease of generator output power, and the voltage change with a tap changer in transformer, is now attained by charging/discharging lithium-ion batteries utilizing ESS.

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