

SolarTech Power Solutions

French energy storage container design



Overview

What are the challenges in designing a battery energy storage system container?

The key challenges in designing the battery energy storage system container included: Weight Reduction: The container design had to be lightweight yet strong enough to withstand operational stresses like shocks and seismic forces, ensuring the batteries were protected during transport and deployment.

What are the top 10 energy storage companies in France?

This article will mainly explore the top 10 energy storage companies in France including Saft, TotalEnergies, Huntkey, Albioma, Eco-Tech Ceram, Amarenco, Neoen, Lancey Energy Storage, Corsica Sole, Water Horizon.

How many high energy containers did Saft supply?

Saft supplied 11 Intensium® Max 20 High Energy containers, while Omexom delivered power conversion systems (PCSs), medium-voltage transformer, power management system (PMS), SCADA, civil works and cabling. Saft sized the ESS to provide the required power at any State of Charge (SOC) and throughout its operational lifetime.

How do I integrate an efficient HVAC system into the container design?

We integrated an efficient HVAC system into the container design by: Incorporating two AC chillers to cool the battery area, regulating the temperature inside the container. Installing two mounted fans on top of the transformer block to circulate the air and ensure efficient heat dissipation.

What makes a good shipping container design?

Weight Reduction: The container design had to be lightweight yet strong enough to withstand operational stresses like shocks and seismic forces, ensuring the batteries were protected during transport and deployment.

Compliance with International Standards: The container design should meet stringent international standards for shipping containers.

How does a container design help reduce operational downtime & maintenance?

The design helped the client reduce operational downtime and maintenance efforts. The container met all relevant international standards, including ISO 1496-1, ISO 668 and IP54 Rating, giving client peace of mind and reducing operational risks.

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