



Single-phase intelligent energy storage cabinet for oilfields in the Saudi Arabia





Overview

Each unit contains a 6 MW power conversion system and four lithium iron phosphate battery modules with a total capacity of 5.365 MWh. The modular design optimizes space usage, simplifies grid integration, and minimizes the risk of system failures.

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RIYADH, Saudi Arabia, Oct. 14, 2025 /PRNewswire/ -- At Solar & Storage Live KSA, Trina Storage officially unveiled its next-generation 6.25 MWh energy storage platform, Elementa 3. With higher energy density, enhanced safety, and improved cost efficiency. Elementa 3: Higher Capacity, Greater.

The primary objective of entering the Saudi Arabia industrial and commercial energy storage cabinet market is to establish a strategic presence in a rapidly evolving energy landscape driven by national diversification goals and increasing renewable energy integration. Saudi Arabia's Vision 2030.

The project in Bisha, located in the southwestern province of 'Asir, is the world's largest single-phase Battery Energy Storage System (BESS), with a capacity of 500 MW and 2,000 MWh. The Bisha energy storage system is owned by Saudi Electric Company (SEC). It consists of 122 prefabricated units.

The 2 GWh battery energy storage system (BESS) features 122 prefabricated storage units, designed and supplied by China's BYD. Saudi Arabia has officially connected its largest battery energy storage system (BESS) to the grid, marking a significant milestone in the country's renewable energy.

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6.25 MWh energy storage platform, Elementa 3. With higher energy density, enhanced safety, and improved cost efficiency. The Elementa 3 features 587 Ah cells, increasing single-cabinet capacity to 6.25 MWh, with.



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[Saudi Arabia commissions its largest battery energy storage system](#)

From ESS News Saudi Arabia has officially connected its largest battery energy storage system (BESS) to the grid, marking a significant milestone in the country's renewable ...

[Saudi Arabia commissions its largest battery energy storage system](#)

The project proponents describe the 500 MW/2000 MWh BESS development in Bisha, in the south-western Saudi Arabian province of 'Asir, as the world's largest operational ...



[Saudi Arabia: 2GWh BESS project 'marks potential](#)

A 2GWh battery energy storage system (BESS) project has gone into operation in Saudi Arabia, according to the EPC firm which ...

TAX FREE

Product Model
HJ-ESS-215A(100KW/215KWh)
HJ-ESS-115A(50KW 115KWh)

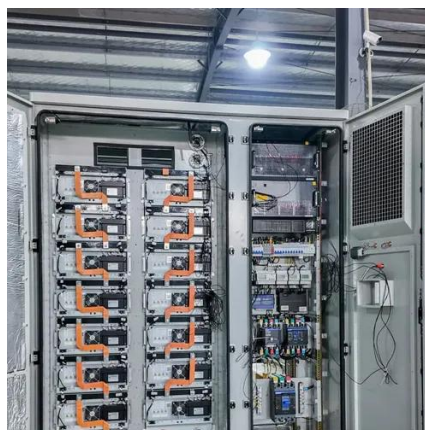
Dimensions
1600*1280*2200mm
1600*1200*2000mm

Rated Battery Capacity
215KWH/115KWH

Battery Cooling Method
Air Cooled/Liquid Cooled

[Saudi Arabia Intelligent Energy Storage Cabinet](#)

HLC Sheet Metal Factory - Saudi Arabia Intelligent Energy Storage Cabinet, Providing Sheet Metal Processing, Hardware Processing, Stamping Processing, Metal Stretching Processing, ...



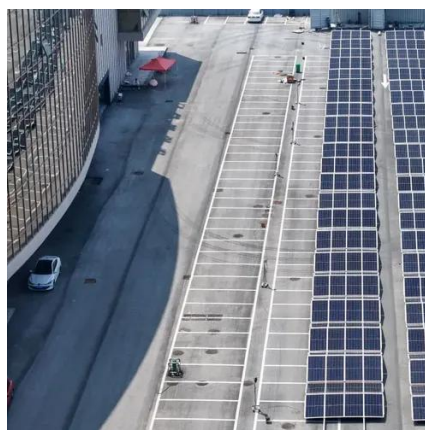
[Trina Storage Unveils Next-Generation 6MWh+ Energy Storage ...](#)

Driving Saudi Arabia's Energy Transition and Sustainable Growth Trina Storage has established a strong global presence, with cumulative shipments reaching 12 GWh by mid ...



[Saudi Arabia commissions its largest battery ...](#)

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[Trina Storage Unveils Next-Generation 6MWh+ Energy Storage ...](#)

The cabinet adopts C5 coating, effectively resisting coastal salt spray and sand abrasion. Modules meet IP67 protection standards, ensuring reliable operation in dust-prone ...



[Saudi Arabia launches tender for 8 GWh of battery ...](#)



The Saudi Power Procurement Company (SPPC) has begun qualifying bidders for an enormous undertaking of four grid-scale battery ...



[Saudi Arabia Launches Construction of 2.5GW Grid-Scale Energy Storage](#)

According to TrendForce, amidst the global energy transition, Saudi Arabia is accelerating the realization of its renewable energy strategic goals. Under the supervision of ...

[Saudi Arabia announces Qualified Bidders for Group 1 - ...](#)

Saudi Power Procurement Company (SPPC) announces the list of Qualified Bidders for Group 1 Battery Energy Storage Systems (BESS) having Combined Capacity of ...



[Trina Storage Unveils Next-Generation 6MWh+ Energy Storage ...](#)

At Solar & Storage Live KSA, Trina Storage officially unveiled its next-generation 6.25 MWh energy storage platform, Elementa 3. With higher energy density, enhanced safety, ...

[Saudi Arabia discovers 14 new oil and gas fields in ...](#)



Abdulaziz stated that the Jabu oil field was discovered in Saudi Arabia's Eastern Region, following the flow of Arabian Extra Light Oil in ...



[Oil Fields in the Kingdom](#)

Oil fields in the Kingdom of Saudi Arabia are a collection of onshore and offshore oil fields and wells discovered and operated in the Kingdom of ...



[Intelligent Energy Services Co. Ltd.](#)

Welcome to Intelligent Energy Services Co. Ltd. Driven by a commitment to excellence, i-Energy was established in 2008 by its founder ...



[Saudi Arabia awards 10.000MWh Battery Energy](#) [...](#)

Saudi Electricity Company (SEC) awards the contracts for Battery Energy Storage Systems (BESS) having Combined Capacity of ...



[Saudi Arabia Industrial and Commercial Energy Storage Cabinet ...](#)



Saudi Arabia's strategic geographic location, expanding industrial base, and commitment to renewable energy projects make it an attractive region for energy storage ...



[Oil and Gas Fields Discovered in Saudi Arabia ...](#)

In 2009, Saudi Aramco discovered five crude oil fields, including four onshore and one in the submerged area in the Eastern Province. These are: ...



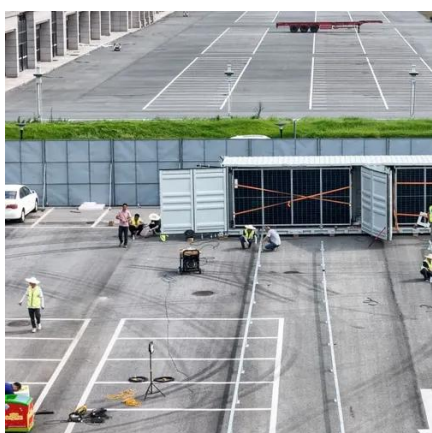
[BYD Energy Storage Connects 2.6GWh Bisha Project to Saudi Grid](#)

Industry Benchmark Recently, BYD Energy Storage has once again actively responded to Saudi Arabia's national strategy, achieving a historic collaboration with Saudi Electricity Company by ...



[Top 10 energy storage battery companies in Saudi ...](#)

In this article, the top 10 energy storage battery companies in Saudi Arabia in 2025 will be introduced, from basic information to latest ...



[Saudi Energy Storage Market Deep Dive: 2025 and Beyond](#)



To achieve the 2025 goal, Saudi Arabia is accelerating several major storage projects. Most notably, SEC announced Phase II of its 2.5 GW/10 GWh grid-scale storage ...



[Battery Energy Storage Systems \(BESS\) in Saudi Arabia: ...](#)

BX Energy Systems is committed to delivering cutting-edge BESS solutions to support Saudi Arabia's energy transformation. Contact us today to learn more about how our storage ...



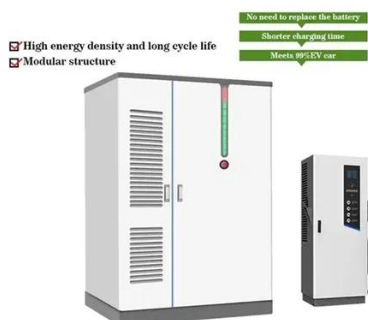
[Saudi Arabia Launches the Country's Largest Energy Storage ...](#)

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[Saudi Arabia commissions its largest battery energy storage system](#)

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[Saudi Arabia Launches the Country's Largest Energy Storage ...](#)



Saudi Arabia Officially Connects the Country's Largest Energy Storage System to the Grid The project in Bisha, located in the southwestern province of 'Asir, is the world's ...



[Saudi Energy Storage Solutions for a Sustainable Future , Our ...](#)

These solutions are essential for storing excess energy generated from various sources and releasing it when needed, thus enhancing grid stability and supporting the integration of ...



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