

Energy storage for workover rigs





Overview

Lithium iron phosphate batteries, with their unique properties, have emerged as a promising solution for energy storage in workover rigs.

Lithium iron phosphate batteries, with their unique properties, have emerged as a promising solution for energy storage in workover rigs.

Abstract: In view of the demand for the electrification of workover equipment and the limited popularization of.

XJ700

Workover rigs play a crucial role in maintaining and enhancing the productivity of oil wells. Traditional workover rigs powered by diesel engines have several drawbacks, such as high energy consumption, large noise emissions, and low efficiency, along with significant pollution gas production.

To solve this problem, the customer added a battery energy storage device on the basis of the original grid-powered workover rig to expand capacity and compensate for power. By rationally utilizing the complementarity of grid power and electric energy storage devices, multiple working modes such as.

The latest truck mounted electric workover rigs developed by Sino Mechanical is energy-saving and environmentally friendly, which is with low noise and low operating cost. Electric workover rig is a mobile self-propelled rig used to perform one or more remedial operations, such as deepening.

At the 2024 ADIPEC in Abu Dhabi, Chinese manufacturer INTLEF Oil & Gas showcased its XJ550DVT energy storage electric workover rig, which utilizes AI algorithms within an energy management system (EMS) to reduce power



demand and fuel consumption compared with conventional diesel-powered workover.



Energy storage for workover rigs



[Electronic control system of electric workover rig](#)

The invention provides an electric control system for an electric workover rig, including: a PWM rectifier, an energy storage battery, a bidirectional DC/DC converter, a frequency conversion ...

CN116760358A

The invention relates to the technical field of workover rig accessories, in particular to a frequency conversion energy storage device of a workover rig, which comprises a derrick and an energy ...



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The on-site test shows that the workover rig with electric energy storage could meet the demands of workover operations in different wells. In a case of power failure, the ...

[Electric Energy Storage Workover Rig](#)

Electric energy storage workover rig is an integration of application network and electronic technology, super capacitor energy storage and guy line technology, ...



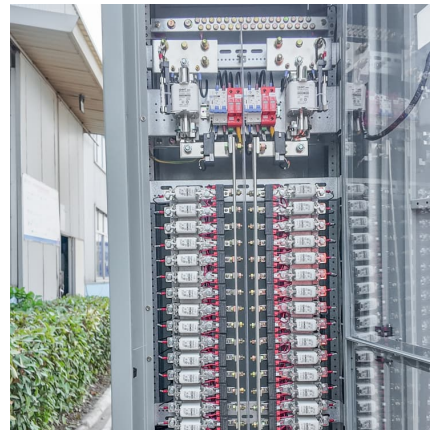
CN103337881A

The super capacitor energy storage driving device for the workover rig comprises an AC/DC rectifier, a DC/AC inverter, a super capacitor module energy storage device, a controller, a ...



CN302373041S

1. The name of the design product: Energy storage workover rig.
2. Use of design products: used in oilfield workover operations.
3. The main points of appearance design: layout and shape.
4. ...



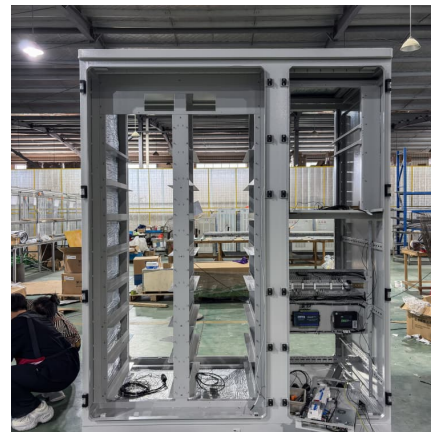
XJ700????????????????

Abstract: To address the issues of conventional workover rig like high power allocation, low transmission efficiency, heavy pollution and complicated process of high-voltage ...



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The invention belongs to the technical field of electric workover rigs, and discloses a power battery maintenance device of an electric energy storage workover rig, which comprises a ...

WO2020057423A1

An electric drilling rig/workover rig microgrid system based on flywheel energy storage technology, comprising a power system (1), wherein the power system (1) is sequentially connected to a ...



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Abstract: In view of the demand for the electrification of workover equipment and the limited popularization of common electric workover rigs, a workover rig was developed with ...



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The test results show that the 50 kVA transformer was capable for the energy storage workover rig . Compared with the conventional diesel driven workover rig, the energy storage workover ...



Lithium Iron Battery in Oilfield Energy Storage Workover Rigs

The successful development of an oilfield workover rig based on lithium iron battery energy storage has solved the problems of slow hoisting and lowering speeds and poor ...

BESS o BATTERY ENERGY STORAGE SYSTEM

The Jelec Battery Energy Storage System, in association with the Jelec Automated Power Management System, provides a means of storing energy from the main generators and ...





Electric energy storage workover rig wide in speed adjustable range

A technology of workover rig and wide speed regulation, which is applied in the direction of mechanical equipment, clockwork mechanism, transmission device parts, etc., can solve the ...

CN203822197U

The electric energy accumulator energy storage electric workover rig meets the higher requirement of China for energy conservation and emission reduction; because the diesel price ...



[Energy storage device applied to workover rig](#)

The invention relates to an energy storage device applied to a workover rig. The energy storage device comprises energy storage equipment, energy storage monitoring equipment and a two ...

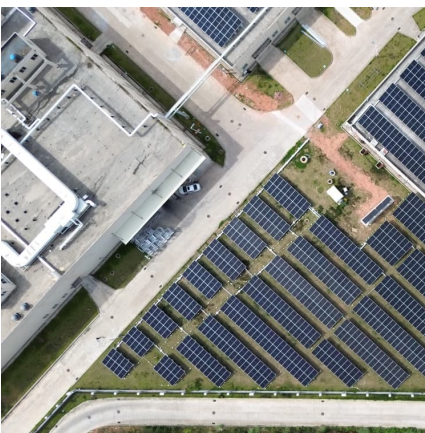
AI-EMS-VFD Smart Workover Rig Successfully Shipped to the ...

This cutting-edge workover rig is hailed as a "revolutionary product" in the petroleum workover sector. It integrates variable frequency drive (VFD) technology, high-power battery energy ...



New type of fully electric vehicle-mounted workover rig promotes ...

The latest truck mounted electric workover rigs developed by Sino Mechanical is energy-saving and environmentally friendly, which is with low noise and low operating cost.



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The simulation of the super-capacitor energy storage control for electric workover rig is executed. The results verify that the presented control method is correct, ...



[WO/2020/057423 ELECTRIC DRILLING RIG/WORKOVER RIG ...](#)

An electric drilling rig/workover rig microgrid system based on flywheel energy storage technology, comprising a power system (1), wherein the power system (1) is ...





Chinese-made workover rig uses AI to optimize power consumption

At the 2024 ADIPEC in Abu Dhabi, Chinese manufacturer INTLEF Oil & Gas showcased its XJ550DVT energy storage electric workover rig, which utilizes AI algorithms ...



CN221995174U

The power management system for the battery energy storage electric workover machine can be applied to oil well workover operations, which can ensure safety, convenience, and ...

CN206114284U

The utility model provides a hydraulic pressure energy storage oil workover rig experimental model, include through detachable mode fixed mounting at subaerial base platform, a test ...



CN204965133U

This electronic workover rig electric control system of energy storage formula includes power management module, energy storage unit, vector converter, inverter motor, PLC control ...



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