

Jaguar Land Rover Sandton SHTx8 - Commercial Demo Site Project



200kW

Installed capacity

409.6kWh

Installed Capacity

BACKGROUND

In May 2024, in Sandton, Johannesburg, the largest city and economic hub of South Africa, one of the Jaguar Land Rover dealerships installed an 8 x SH25T + 16 x SBR256 system. This cutting-edge system features the latest three-phase hybrid inverter product, the SH25T, newly launched by Sungrow in March 2024. By integrating 8 hybrid inverter systems in parallel, it provides ample backup power for the entire Land Rover dealership office and workshop, effectively addressing various levels of Load-shedding. In the event of a power outage or emergency, the system can seamlessly act as a backup power source, ensuring uninterrupted power supply and minimizing downtime costs and losses. This solution ensures the dealership's operations remain consistent and stable even during unexpected power disruptions.

QUICK FACTS

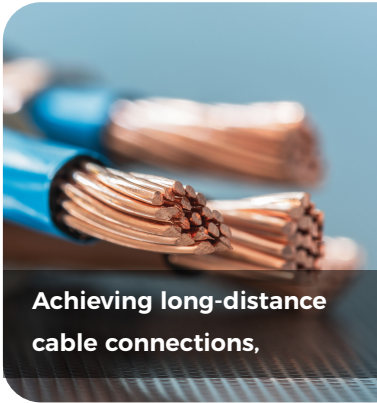
Project name: Jaguar Land Rover Sandton SHT	Commissioning: 9 May, 2024
Location: 61 Rivonia Rd, Morningside, Sandton, 2191	Installed capacity(AC): 200 kW
Technology provider: SUNGROW	Inverter: SH25T
Owner: Sinopower	Battery: SBR256

TEST ITEMS



- Quick Installation ☒
- Communication Verification of 8 Units ☒
- Control Logic Verification of 8 Units ☒
- Performance Testing of 8 Units ☒
- Verification of Application Scenarios for 8-unit System ☒

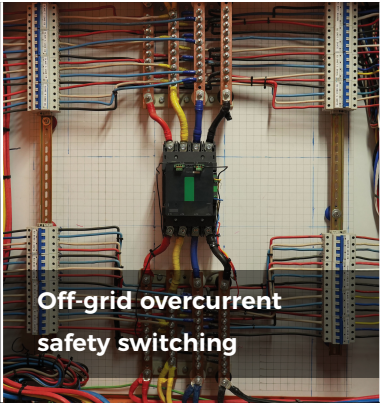
CHALLENGES



Achieving long-distance cable connections,



Activating diesel generators



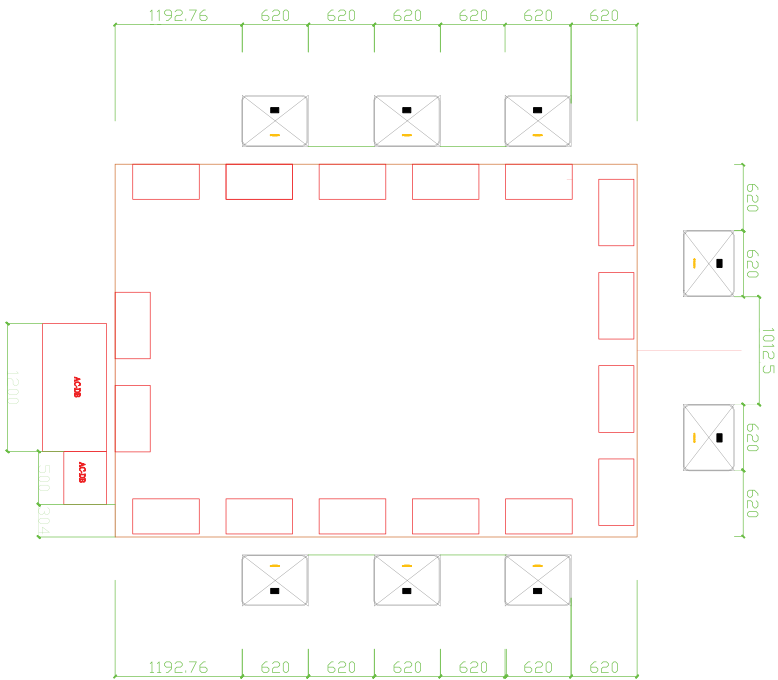
Off-grid overcurrent safety switching

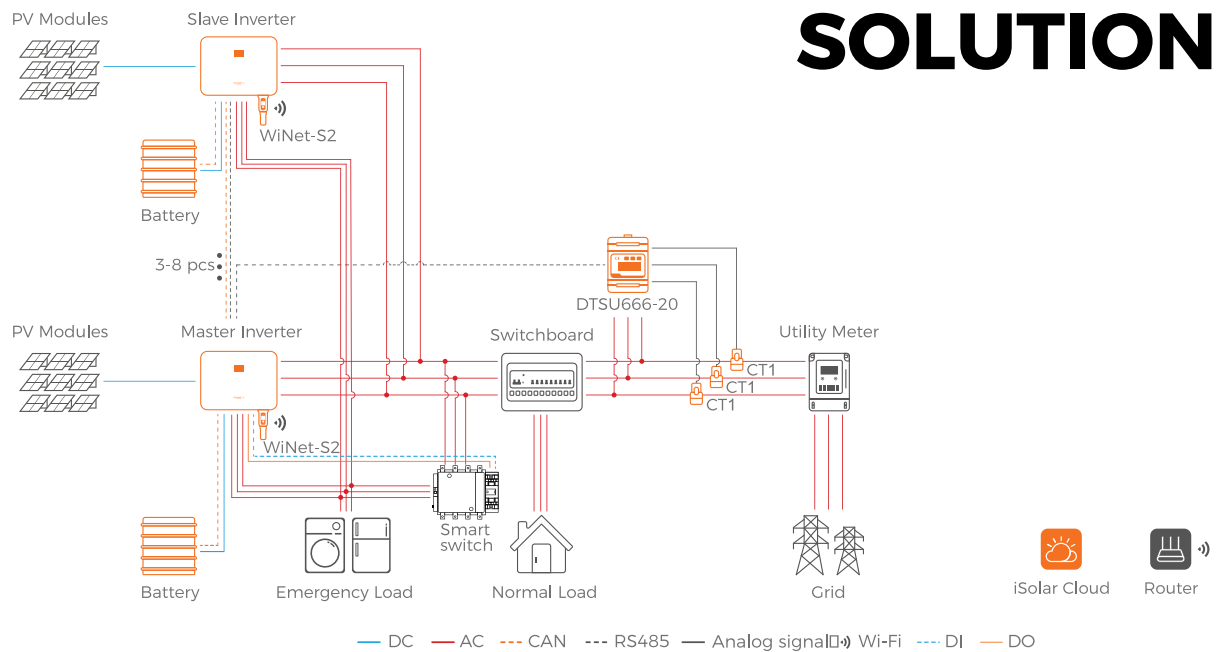


Vent duct access

STRUCTURE

8 units parallel -floor plan





SOLUTION ADVANTAGE

1. Modular design for flexible scalability and easy maintenance.
2. Supports 100% unbalanced loads.
3. Smart Switch supports load overcurrent protection and off-grid switching, providing ultimate safety for the system.

VALUE TO CUSTOMER

Balancing power supply and demand to enhance stability:

During peak electricity demand periods, the system can release stored power to meet the electricity needs of industrial and commercial users, thereby balancing power supply and demand and improving overall electrical stability. This stability is crucial for customers, ensuring that their businesses can continue to operate consistently and stably under any circumstances.

Energy saving, emission reduction, and promotion of sustainable development:

The system can optimize grid dispatching, improve energy utilization efficiency, and reduce energy waste. PV panels will be installed on-site at a later stage, combined with PV facilities, to reduce dependence on traditional high-energy-consumption and high-emission energy forms such as diesel generators, thereby reducing carbon emissions and protecting the environment. This not only helps enterprises achieve green production but also adds an environmentally friendly aspect to the customer's brand image.

- Economic benefits: Installing the Sungrow SHT series system can effectively reduce electricity expenses and improve energy utilization efficiency, thereby enhancing the customer's economic benefits.

- Providing backup power: In the event of a power outage or emergency, the system can serve as a backup power source, providing sufficient power support for users. This helps reduce downtime costs and losses caused by unexpected power outages, ensuring the continuity and stability of the customer's business.

- Customized solutions: Small-scale industrial and commercial SHT system model power stations can be customized according to the actual needs of customers, meeting their different power and energy storage requirements. This flexibility and scalability enable the overall system to better adapt to the business scenarios of different customers, providing them with more targeted solutions.

South Africa is one of the key solar energy markets in Africa”.

The Sungrow SH series 15-25kW hybrid inverters demonstrate adaptability to diverse installation and operational scenarios within the country.

Furthermore, the system boasts an intelligent switching system, ensuring enhanced safety during system start-up and off-grid switching.

Sungrow's 8 x SHT parallel Commercial Demo Site Project leads the development of energy storage demand in South Africa's large residential and small-scale commercial and industrial sectors. This fosters mutually beneficial relationships with customers and contributes to the construction of a new energy system, aiming to achieve the "dual carbon" goal earlier.



ABOUT SUNGROW

Sungrow Power Supply Co., Ltd. ("Sungrow") is a global leading PV inverter and ESS supplier with over 515 GW of power electronics equipment installed worldwide as of December 2023. Founded in 1997 by University Professor Cao Renxian, Sungrow is a leader in the research and development of solar inverters with the largest dedicated R&D team in the industry and a broad product portfolio offering PV inverter solutions and ESSs for utility-scale, commercial & industrial, and residential applications, as well as internationally recognized floating PV plant solutions, NEV driving solutions, EV charging solutions and renewable hydrogen production systems. With a strong 27-year track record in the PV space, Sungrow products power over 170 countries worldwide.

For more information about Sungrow, visit: sa.sungrowpower.com