





APPLICATIONS

Company Background

Professional Power Solution Provider

Client End Solar Energy Storage Energy Storage Power Station

Generation-Side End Generation-Side Energy Storage Integrated PV Energy Storage Station

Transmission & Distribution

Power Station ESS Solutions Grid Station Area ESS Solutions

Microgrid

Solar Energy BESS Charging Station

BESS

1 Hour Impact Load Regulation 24 Hours Profile Construction Side BUILT ON A LEGACY, FOCUSED ON THE FUTURE



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Professional Power **Solution Provider**







Solar componets







COMPANY BACKGROUND

Lister Petter is committed to developing new and innovative solutions to provide cleaner energy. By utilizing emerging technologies alongside our more traditional methods, we aim to meet the ever-changing power demands of the world and drive towards zero carbon emissions.







CLIENT END

Solar Energy Storage



- · Electricity for remote areas
- Residential
- Commercial and industrial electricity
- Electricity for public places

• Energy Storage Power Station



- · Peak shaving
- Load balancing
- Backup power

Overview

The Lister Petter string energy storage system can provide customers with peak-to-valley arbitrage mode and backup power guarantees, as well as dynamic capacity expansion. This system can be applied to household energy storage, large industrial and commercial settings, 5G base stations, micro-grids, virtual power plants, and other livelihood areas. It helps customers reduce electricity costs, provides emergency protection, and promotes green energy for the benefit of all.

LISTER





Self-consumption

Time-of-use optimisation

Reduce electricity costs



GENERATION-SIDE END

Generation-Side Energy Storage



Overview

Energy storage plants play an important role on the generation side by providing a buffer between electricity generation and consumption. They allow excess energy to be stored when demand is low and released when demand is high, which can help improve the efficiency and reliability of power generation. It can also help mitigate the impact of intermittent renewable energy sources such as wind and solar. By storing excess energy generated during periods of high production, energy storage power plants ensure a consistent supply of electricity when these sources are not producing.



Load shifting



Renewable energy integration



Capacity stability



Applications:

- Load shifting Black start capability
- Renewable energy integration
- Capacity Stability
- Frequency regulation

Integrated PV Energy Storage Station



Applications:

- Renewable energy integration
- Capacity Stability
- Frequency regulation

Recommended products: • BESS series (All-in-one solutions)

Recommended products: • BESS + MPPT

TRANSMISSION & DISTRIBUTION END

Power Station ESS Solutions



Grid Station Area ESS Solutions



- Black start capability



Overview

A grid-scale energy storage plant plays a crucial role in improving the reliability and stability of the electricity grid. These power plants store excess energy during periods of low demand and release it during periods of high demand, helping to balance supply and demand on the grid. This capability reduces the need for expensive and less efficient peaking power plants, which are typically used only during periods of high demand.







Black start capability

Ancillary services

MICROGRID ESS

SOLAR ENERGY BESS CHARGING STATION





Microgrid ESS



- Remote communities
- Hospitals and emergency services
- Data centers
- Industrial parks

Option 1:BESS + MPPT

Option 2:BESS series (All-in-one solutions)

Solar Energy BESS Charging Station



Applications:

- Providing backup power
- Integrating renewable energy
- Reducing peak demand
- Improving energy sustainability Creating microgrids

Recommended products: Option 1:BESS + MPPT Option 2:BESS series (All-in-one solutions)

Demonstrations



Energy Storage Power Station Providing backup power

400kW / 800kWh

Energy Storage Power Station Peak shaving Load balancing Backup Power







Energy Storage Power Station Reducing peak demand

200kW / 400kWh

Generation-Side Energy Storage Load shifting Capacity Stability Frequency regulation

150kW / 300kWh





Hybrid Commercial and Industrial ESS

• Features

- All-in-one design with a high degree of integration.
- Modular design with optional modules of different sizes.
- Support for grid-connected and off-grid operation
- MPPT Solar controller available as an option
- IP54 class fire and explosion-proof housing
- · Patented air duct design, intelligent air cooling, 3-5°C temperature difference of the battery core

Applications

DG+BESS





Self-Consumption







Off grid





Demand Charge



Smooth output







• 1 Hour Impact Load Regulation



 Feul Provide
 Battery Provide
 Solar Provide

• 24 Hours Profile Construction Side



Applications



Construction



Leasing



Oil field

Advantages Optimized system performance

Quiet Technology

The perfect choice for noise-sensitive applications and worksites, especially for overnight operation allowing increased productivity.



Mine



Port



Hospital

Energy Management

50-100% impact load regulation ability improvement (Determined by BESS size)

Cost Savings

Optimize fuel consumption and reduce the running time of engine. 30-50% fuel will be saved cause Engine will always running at high efficiency.