

COMMERCIAL & INDUSTRIAL SOLUTIONS

Battery Energy Storage System (BESS)

Reliable. Efficient. Sustainable.

Helix 3 Energy is proud to present our state-of-the-art Battery Energy Storage System (BESS), designed to meet the energy demands of commercial and industrial sectors in Western Australia.

This cutting-edge energy solution offers unmatched efficiency, safety, and durability, tailored to enhance your business operations.

KEY FEATURES:

- **Rated Capacity:** 233kWh
- **Rated Power:** 100kW
- **Max. Output Power:** 110kW
- **Cooling Method:** Liquid Cooling for both PCS and Battery
- **Operating Temperature Range:** -20°C to 55°C
- **Protection Level:** IP54, ensuring durability in diverse environmental conditions



www.helix3.com.au/energy

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BENEFITS OF OUR BESS:

Integrated Design for Simplified Operations

Our BESS combines all critical components—energy storage converter, battery, battery management system (BMS), energy management system (EMS), thermal management, power distribution, and fire protection—into a single, cohesive unit. This all-in-one design ensures quick installation and ease of maintenance, minimising operational interruptions and costs.

Intelligent Liquid Cooling for Enhanced Performance

Equipped with an advanced liquid cooling system, our BESS ensures uniform temperature distribution across all battery cells, maintaining a temperature difference within just 3°C. This feature optimises battery performance and extends the lifespan of the cells by up to 20%, ensuring long-term reliability for your energy needs.

Robust Safety Features

Safety is a top priority at Helix 3 Energy. Our BESS is designed with a multi-level management structure that provides comprehensive protection against short circuits, overcurrent, overvoltage, undervoltage, and overheating. This robust safety design ensures the security of your energy storage system, giving you peace of mind.

Scalable Energy Solutions

Our BESS offers scalable energy storage solutions, ideal for businesses of all sizes. Multiple units can be connected in parallel, allowing for seamless expansion as your energy demands increase, making it a flexible solution for growing enterprises.

Versatility in Application

Our BESS is designed for a wide range of applications, including emergency power backup, mobile energy storage, and photovoltaic (PV) storage charging stations. This versatility makes it an ideal solution for various commercial and industrial settings.

APPLICATIONS:

Commercial & Industrial Facilities: Reliable energy storage to manage costs and ensure continuous operations.

Emergency Backup: Instant power during outages, protecting critical systems.

Renewable Integration: Store and use excess solar or renewable energy efficiently.

Peak Shaving: Reduce demand charges by optimising energy use during peak times.

WHY CHOOSE HELIX 3 ENERGY?

Expertise and Experience

With years of experience in the commercial electrical sector, we have the knowledge and expertise to deliver top-quality energy storage solutions tailored to your needs.

Customer Support

Our dedicated support team is available to assist you with any questions or concerns, ensuring you receive the best possible service.

Quality Assurance

We use only the highest quality components and materials, ensuring your energy system is built to last and performs at its best.

Tailored for Australian Conditions

Helix 3 Energy understands the unique challenges and opportunities in the Western Australian market. Our BESS is designed to provide reliable and efficient energy storage solutions that align with local regulations and environmental conditions. Whether you are looking to enhance your energy independence, reduce operational costs, or ensure uninterrupted power supply, our BESS is your trusted partner in energy management.

CONTACT US TODAY!

Take the first step towards energy independence and sustainability with a tailored energy storage system. Contact us today to learn more about our products and how we can help you achieve your energy goals.

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