



CRITICAL POWER SOLUTIONS

LITHIUM-ION BATTERY SOLUTIONS

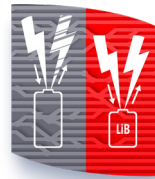
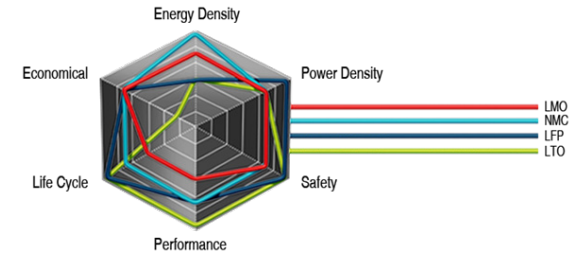
As a power dense, reliable and safe option, Lithium-Ion (LiB) solutions are available in multiple chemistries to support different UPS systems.



LITHIUM-ION TECHNOLOGY

A reliable, safe battery chemistry

Lithium-Ion UPS batteries offer a range of benefits that make them an ideal choice over other UPS battery chemistries, such as **extended lifespan**, **increased power density**, **smaller footprint**, and **increased cycle life**. Lithium battery backup solutions are available in multiple lithium chemistries to support different UPS systems.



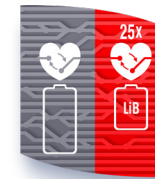
Higher Efficiency



Longer Shelf Life



Lower TCO



Higher Cycle Life



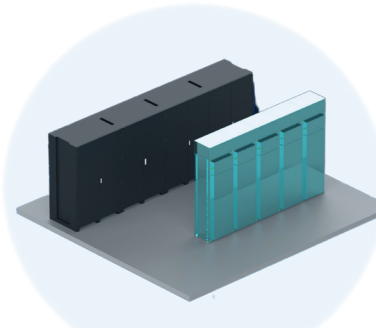
Expanded Functionality

OPTIMUM POWER DENSITY

*In a smaller footprint**

With a **40-60% smaller footprint** and **60% lower weight**, lithium battery backup solutions for UPS systems take up less space that can be leveraged for critical equipment and weigh less in transport.

With LiB UPS backup systems, you don't have to sacrifice power for floor space. Mitsubishi Electric lithium-ion battery cabinets have a power density that is 4x that of traditional battery solutions.



Ideal for edge data centers and pre-fabricated construction

*When compared to legacy backup power solutions

SAFETY

Meeting the Safety Regulations to reduce risk is a primary concern, therefore all Lithium-Ion solutions provided by Mitsubishi Electric are compliant with the following standards:

UL1973, UL1642, UN38.3, UL1998

IEC 62619

***UL9540 A**

The codes and regulations for lithium-ion batteries are constantly changing. The National Fire Protection Association (NFPA) and International Fire Code (IFC) added sections directly related to the installation and use of lithium-ion batteries.

In combination with these, UL and IEC have created requirements for Lithium-Ion batteries to ensure their safe use and operation in energy storage systems. Mitsubishi Electric can help you navigate the latest information and codes.

*Tested w. Acceptable Results

BATTERY MANAGEMENT SYSTEM

All solutions include a BMS that monitors State of Health (SoH), State of Charge (SoC), alarms, and other parameters to ensure safe operation and increased visibility over the battery backup system.



Data Collection

Real time data collection helps to predict failure and improve safety and reliability.

Data Trending

Smart monitoring of state of charge and health, temperatures, and battery values can be used for data trending to identify root cause of any operational issues.

Safety

Advanced battery management ensures safe operation and prevents over temperature, over current and abnormal voltage conditions.



COMPATIBLE BATTERY POWER

Mitsubishi Electric UPSs are lithium ready

Mitsubishi Electric has tested and verified that LiB batteries can be used to back up the following UPSs: 1100B, 9900AEGIS, 9900B, SUMMIT Series®, 9900CX and the 9900D.

With an impressive expected lifetime of 15 to 20 years and minimal footprint, LiB battery cabinets are an attractive alternative for small spaces as well as edge data centers. Mitsubishi Electric's Services also cover installation, maintenance, and replacements.



Smaller Footprint
40-60% smaller than traditional battery systems



Longer Operating Life
Expected 15 to 20 year life span



Lighter Weight
60% lighter than traditional battery systems



Reduced Maintenance
Only requires an annual maintenance visit. Integrated BMS capabilities allow remote visibility.



BCL04-CBA01 lithium battery cabinet

SERVICE SOLUTIONS

Mitsubishi Electric's highly reliable and efficient products are backed by a full range of Field and Factory Services.



Factory Testing & Startup

Every UPS is tested prior to shipment with customized in-person or virtual factory witness tests available. Certified technicians perform startup and commissioning.



24/7 Customer Support

Highly-skilled representatives are available to troubleshoot by phone, and if necessary, dispatch a certified technician to your site. Call 1-800-887-7830, and select option 1.



Maintenance & Repairs

Mitsubishi Electric offers a variety of customized maintenance solutions and comprehensive services to troubleshoot, diagnose, and repair system irregularities.



Batteries & Battery Services

As batteries are the leading cause of UPS failure, Mitsubishi Electric offers a wide range of maintenance, monitoring, and replacement services to keep your batteries fully operational.



CRITICAL POWER SOLUTIONS

RELIABL

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