

LITHIUM ION BATTERY CABINET BCL01/02 DATA SHEET



High Power Density, Long Life, Low Total Cost of Ownership

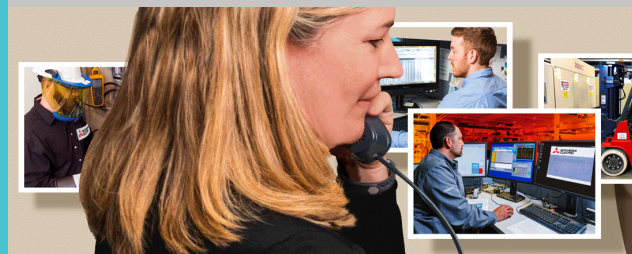
The NEC ES lithium ion battery solution, BCL01/02, was developed for extremely high energy density applications and delivers some of the longest runtimes available per square foot. Utilizing Lithium Nickel Manganese Cobalt Oxide (NMC) technology, the NEC ES solution provides a 20 year life span alternative to lead acid batteries. This solution is suitable to meet future peak shaving and demand response applications you may need from your UPS. Operation is made simple with the Standard HMI display for total system control and standard Modbus TCP/IP communication. NEC ES leads the industry by offering up to a 15 year warranty!

Choosing a reliable and safe energy storage vendor is of paramount importance. Mitsubishi Electric partners with the largest manufacturers of energy storage batteries in the world; their expertise in the design and manufacturing of lithium ion modules paired with redundant control architectures creates one of the safest lithium ion systems on the market. When you need your UPS battery to be as reliable as a Mitsubishi Electric UPS, look no further.

BCL01/02 is available for use with the following UPSs: 9900AEGIS, 9900B, 9900C/CX, and Summit Series.

ABOUT US

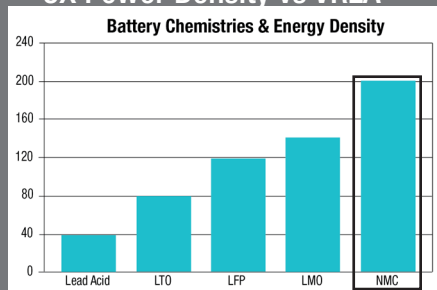
The Mitsubishi Electric name has long been recognized as one of the world's leaders in the manufacture of electrical products. From its founding in 1921, Mitsubishi Electric has been at the forefront of technical ingenuity and product innovation. Since 1964, Mitsubishi Electric has been manufacturing precision engineered highly reliable Uninterruptible Power Supplies and solving the challenges of American critical facilities since 1985. Mitsubishi Electric leads the way in technological advances of uninterruptible power supplies and is the only major brand that manufactures its own semiconductors. Mitsubishi Electric holds the highest efficiency rating for the AC-Double Conversion (VFI) category on the Energy Star web site and openly shares reliability data.



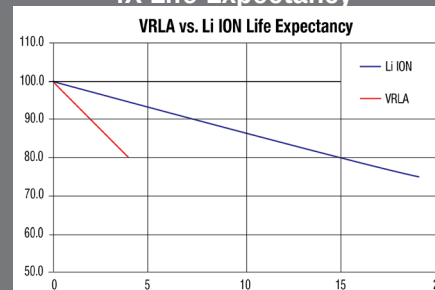
FEATURES & BENEFITS

- 40-60% Smaller Footprint than VRLA
- 60% Lower Weight than VRLA
- Low Maintenance
- 3 Year Warranty / 10 or 15 Year Optional
- 20 Year Life Span
- 40% Reduction to Your Total Cost of Ownership over VRLA with 3-4x Longer Life!

5X Power Density vs VRLA



4X Life Expectancy



OUR SERVICES

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

- FACTORY TESTING & STARTUP
- 24/7 CUSTOMER SUPPORT
- MAINTENANCE & REPAIRS
- BATTERIES & BATTERY SERVICES

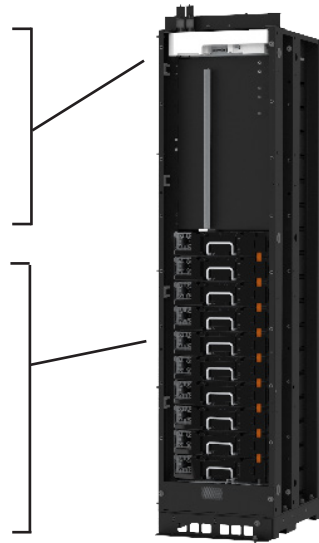
Simply call 800-887-7830 for assistance.

Integrated Rack Control Module

- Safety Protections at the Rack Level for Voltage, Current and Temperature
- Equalization Feature – Allows Racks of Different Voltage to Join in Parallel
- Comprehensive Data Reporting and Logging Functions

Li NMC Polymer Cell Module

- Long Cycle Life and High Power
- Safety Reinforced Separator
- Low Self Discharge
- Wide Temperature Range
- Built in BMS for Self-Diagnostic and Balancing
- Layered Safety Features Certified to Latest UL Standards



High Density Front Access Power Modules with Built-in BMS for Self-Diagnostic and Balancing



Available in 99kW and 132kW Power Densities for Right Sized Application

System Control Module Provides Easy Access to Rack Controls and Information Available in Optional Wall Mounted Cabinet

NOTE: Above illustrations are not to scale.

IT'S TIME TO RETHINK YOUR UPS.

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 UPSsales@meppi.com
 800-887-7830
 724-772-2555



BCL01/02 Lithium Ion Battery Cabinet

Battery Type	Lithium Nickel Manganese Cobalt Oxide (LiNiMnCoO2 or NMC)	
Module type	JP3-1P	JP3-2P
Number of Modules	10	
Nominal Voltage	515 VDC	
Operating Voltage Range	462 -581 VDC	
Capacity		
Maximum Discharge Power	99 kW	132 kW
Maximum Discharge CP-Rate	3 CP	2 CP
Maximum Recharge Current	192A	256A
Maximum Recharge CP-Rate	3 CP	2 CP
Available Energy	22 kWh	50 kWh
Nominal Capacity	59.7 Ah	119.5 Ah
Maximum Discharge Current	214A	285A
Peak Discharge Current (1s)	225A	320A
Operation		
Cycle Life	>4000 cycles	
Operating Temperature	0 to 40°C	
Shipping Storage Temperature	-20 to 45°C	
Communications	Can Bus, Modbus TCP/IP	
Listings	UL1642, UN38.3, UI1973, FCC 47 CFR Part 15 Subpart B Class A, IEC62040-1, IEC 61508	
General		
Dimension (W x D x H) (in)	22.3 x 17.4 x 92.1	22.3 x 27.2 x 92.1
Weight (lbs)	872	1401