

# LITHIUM ION BATTERY CABINET BCL01/02/03 DATA SHEET



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

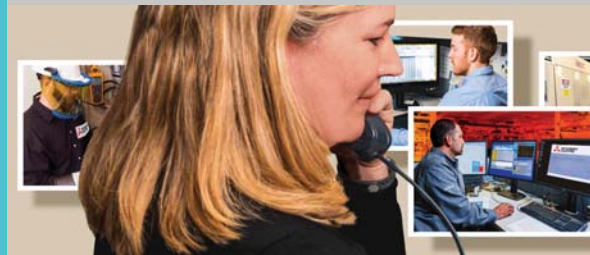
The NEC ES lithium ion battery solution, BCL01/02, was developed for extremely high energy density applications and delivers some of the longest runtimes available per square foot. Utilizing Lithium Nickel Manganese Cobalt Oxide (NMC) technology, the NEC ES solution provides a 20 year life span alternative 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.

BCL01/02/03 is available for use with the following UPSs: 9900AEGIS, 9900B, 9900C/CX, and Summit Series.

## ABOUT US

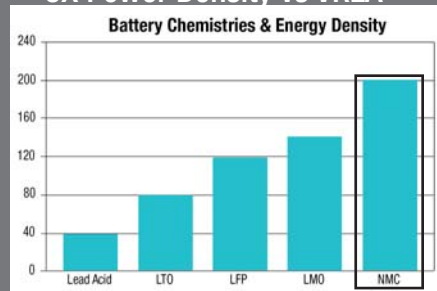
The Mitsubishi Electric name has long been recognized as one of the world's leaders in the manufacture of electrical products. From its founding in 1921, Mitsubishi Electric has been at the forefront of technical ingenuity and product innovation. Since 1964, Mitsubishi Electric has been manufacturing 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.



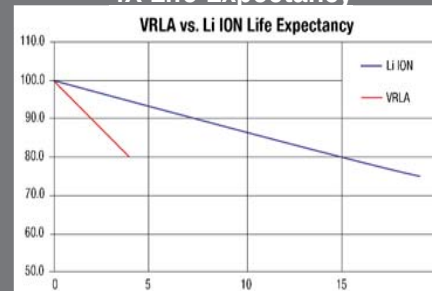
## FEATURES & BENEFITS

- 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

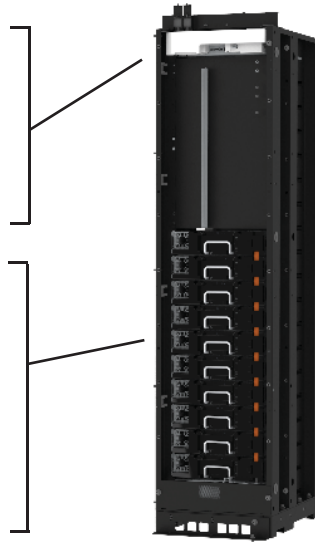
Simply call 800-887-7830 for assistance.

### 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



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



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



Available in High Power Density Configuration Combining Three Battery Strings in Two Racks

NOTE: Above illustrations are not to scale.

# IT'S TIME TO RETHINK YOUR UPS.

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 800-887-7830  
 724-772-2555



## BCL01/02/03 Lithium Ion Battery Cabinet

Battery Type	Lithium Nickel Manganese Cobalt Oxide (LiNiMnCoO <sub>2</sub> or NMC)		
Module type	BCL01	BCLO2	BCL03
Number of Modules	10		30
Nominal Voltage	515 VDC		
Operating Voltage Range	462 -581 VDC		
<b>Capacity</b>			
Maximum Discharge Power	99 kW	174 kW	522 kW
Maximum Discharge CP-Rate	3 CP	2.6 CP	2.6 CP
Maximum Recharge Current	192A	256A	768A
Maximum Recharge CP-Rate	3 CP	2 CP	2 CP
Available Energy	22 kWh	50 kWh	150 kWh
Nominal Capacity	64 Ah	128 Ah	384 Ah
Maximum Discharge Current	214A	333A	999A
<b>Operation</b>			
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, UL1973, FCC 47 CFR Part 15 Subpart B Class A, IEC62040-1, IEC 61508		
<b>General</b>			
Dimension (W x D x H) (in)	22.3 x 17.4 x 92.1	22.3 x 27.2 x 92.1	44.2 x 27.2 x 92.1
Weight (lbs)	872	1401	4204.2