

Lithium Ion Battery Cabinet

BCL04-BB

The Samsung lithium ion battery solution, BCL04, was specifically designed to meet the demands of large scale UPS applications. With the high current capabilities of the Lithium Manganese Oxide / Nickel Manganese Cobalt Oxide mix (LMO / NMC), this battery is capable of providing megawatts of power in just a few strings. Pair the high power density with its 15 year design life, and is now a leading battery solution for all high power applications.



Integrated Rack Control Module

Ensures rack-level safety by monitoring voltage, current, and temperature. It includes a 600A Molded Case Circuit Breaker for isolation, a Modbus TCP/IP Communication Port for seamless communication, and redundant control power supplies for reliability. Streamlined installation, with single-hole input power connections and top access cable entry, contributes to an efficient system.



High Power Applications

This solution for high-power applications stands out with its impressive features, including high discharge current capability, small footprint and low total cost of ownership. It offers powerful performance in a compact design, making it a cost-effective solution for demanding applications.



Battery Module

The Battery Module is designed for longevity and high power output, featuring a multi-layered safety power cell for enhanced durability. It incorporates built-in battery monitoring capabilities, ensuring efficient and reliable performance. The module is constructed by laser-welded precision, emphasising structural integrity and reinforcing the overall robustness of the battery system.

Elevate your Performance

- 40-60% Smaller footprint than VRLA
- 60% lower weight than VRLA
- Low maintenance
- 3 year warranty
- 15 year life span
- 40% reduction to your total cost of ownership over VRLA
- 3x longer life
- Integrated BMS

SPECIFICATIONS

| BCL04 LITHIUM ION BATTERY CABINET | |
|-----------------------------------|---|
| Battery Type | Lithium Manganese Oxide / Nickel Manganese Cobalt Oxide mix (LMO / NMC) |
| Module type | M2031AE |
| Number of Modules | 17 |
| Nominal Voltage | 516.8 VDC |
| Operating Voltage Range | 435 - 571 VDC |
| CAPACITY | |
| Maximum Discharge Power | 184 kW |
| Maximum Discharge Cp-Rate | 6 CP |
| Max Recharge Current | 22.3 A |
| Max Recharge Cp-Rate | 0.33 CP |
| Available Energy | 34.6 kWh |
| Nominal Capacity | 67 Ah |
| Maximum Discharge Current | 450 A |
| Peak Discharge Current (1s) | 600 A |
| OPERATION | |
| Operating Temperature | 18 to 40°C |
| Shipping Storage Temperature | 0 to 40°C |
| Communications | Modbus TCP/IP |
| Listings | UL1642, UN38.3, UL1973, UL991, UL1998, UL9540A |
| GENERAL | |
| Dimension (W x D x H) (mm) | 642 x 592 x 2030 |
| Weight (kgs) | 537 |



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