BMS – BB2590

Battery Manager and Control Unit

The Holkirk BMS-2590 is a specialised power management system designed to monitor and control BB2590 MIL-STD batteries. It efficiently directs power output to the Holkirk range of terminals via a single terminal cable, ensuring reliable power delivery and seamless battery operation.

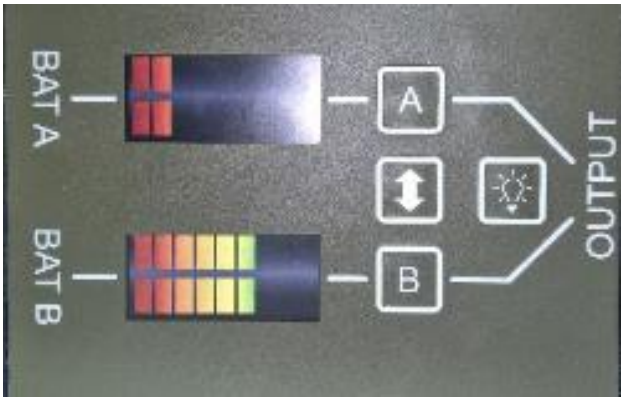
Functional Capabilities

Battery Management System (BMS) provides real-time monitoring and control over multiple BB2590 MIL-STD batteries, ensuring optimised power distribution through a make-before-brake system.

This allows users to seamlessly swap between power sources without interruption. The integrated battery management functionality enables enhanced power efficiency, prolonging the operational lifespan of the connected batteries.

User Interface & Controls

The BMS is equipped with a four-button interface for simplified operation:



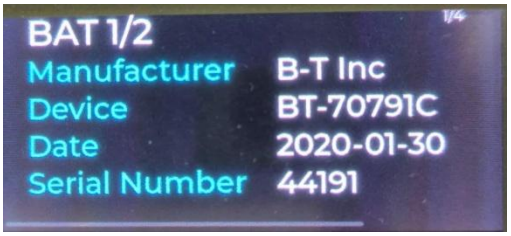
1. Screen Activation – Exits screen blanking mode, restoring active display.
2. Battery Change-over Control – Manually switches the 'live' power source between the two connected BB2590 batteries via a make-before-brake system.
3. Information Navigation (Battery 1) – Cycles through battery information pages for detailed power monitoring.
4. Information Navigation (Battery 2) – Provides additional data cycling functionality.

Each BB2590 battery consists of two internal power cells. The BMS independently monitors these cells, displaying charge levels on the primary screen as a split graphic representation.

Additional details on each cell can be accessed through button-operated cycling.

Operational Benefits

The BMS enhances battery control and monitoring by providing users with real-time insights into battery health, charge status, and power output. It's make-before-break switching mechanism ensures continuous operation and prevents power disruption when swapping between batteries.



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This makes the BMS a reliable power management solution for applications requiring mission-critical battery performance.