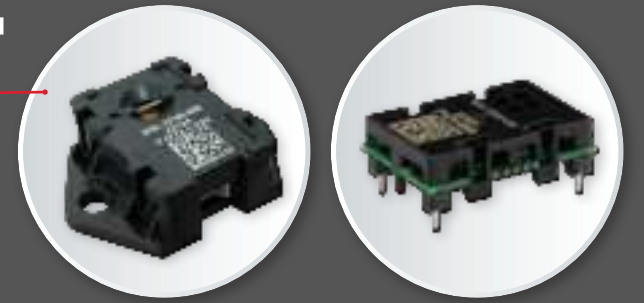


BESS SENSING SOLUTIONS FROM HONEYWELL

Battery Energy Storage Systems (BESS) store and manage energy, ensuring reliability, efficiency, and integration with renewable sources. These complex units require sensors to ensure safety and monitor battery charge and health.

Battery Management Systems
Battery Modules



The **BES LITE**, available in flange-mount and board-mount versions, is a compact and cost-effective battery electrolyte vapor detector that is specifically designed for in-pack use. By installing a single BES LITE sensor in each battery pack, you can effectively ensure timely and proactive detection of thermal runaway events.

The BES LITE is engineered to detect gases that are typically released during the initial phase of thermal runaway as well as throughout the entire thermal runaway process.

- **Early Detection:** Identifies venting events well before thermal runaway
- **Timely Alerts:** Offers early warning for impending thermal runaway
- **Selective Sensitivity:** Exclusively detects electrolyte vapor for accuracy
- **Space-Saving Design:** Compact design integrates seamlessly into battery packs and BMS boards
- **In-built Diagnostics:** Enabled through three-state analog output



Honeywell **CSNV500** and **CSNV700** current sensors are housed within the BESS' battery management system (BMS). The sensors are interfaced with the BMS to help measure the current in the modules. They can also monitor battery charge and health, provide overcurrent protection, optimize power use, extend battery life, managed the load, and ensure safety compliance.

- Measures up to 500 A, 700 A, respectively
- High accuracy, low-temperature drift
- Excellent zero-offset performance
- Uses AEC-Q components (CSNV700)
- Excellent stability, reliability, and EMC performance
- CAN communication

= BES LITE Sensor
One sensor mounted
inside each battery module

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006025-2-EN | 2 | 05/25
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