



ReadyBMS™

The solution for building “lithium DNA” into any compatible system—now or later

READY|BMS

- Provides communication with lithium batteries
- Enables “closed-loop” charging control
- Delivers integrated battery BMS data
- No need for additional configuration or connections

Morningstar’s ReadyBMS is part of the ReadyBlock suite of add-on-- yet built-in-- functionality available in Morningstar “host” components featuring the ReadyRail expansion system. “Add-on” in the sense that ReadyBlocks can be integrated into a system at any time, either on inception or later as needs arise. “Built-in” because once added, ReadyBlocks become part of the host component, seamlessly integrated into both its hardware and software.

No additional configuration or connections are required. ReadyBlocks automatically activate, are recognized, and are ready to go immediately after being snapped into a ReadyRail.

Key Features and Benefits

- Total peace of mind during operation, with a charger and battery working in unison as a system
- Closed loop, so no need to specify charge algorithm parameters. ReadyBMS “gets it right” first time and every time
- Powerful information for decision-making. Users can specify automated actions in their system based on detailed battery information, with BMS data made available for use in logic configuration
- No need for external additional widgets and accessories, including Remote Temperature Sensors and Battery Sensors. ReadyBMS gets charging commands directly from the battery that are already temperature compensated, along with battery voltage reporting eliminating the need to account for voltage drop across conductors. This reduces system set-up time and complexity, reducing costs and also eliminating potential common failure points (for example, system fault if an RTS becomes disconnected)
- Highly accurate, responsive performance. With Ready BMS the charger gets precise battery data without the need for external measurements, and can respond in real-time to the needs and limitations of the battery in real-time, ensuring optimal charging while not exceeding limits



ReadyBMS installed in a GenStar MPPT charger

ReadyBMS Features and Specification Table

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|--|---|
| Version | RB-BMS |
| LED Indications | Block Status Communication Status |
| ReadyBMS Supported Battery Brands | ReadyBMS currently supports 2-way communication and both open loop and closed loop communications with Discover and PylonTech LiFePO4 batteries, which are closed-loop/Tier 2 partners in our Energy Storage Partner (ESP) program. In addition, Morningstar plans to bring additional partner brands into the Tier 2 level. Check the Morningstar ESP webpage for more information and updates |
| Electrical | |
| Self Consumption | < 1.5 W |
| Mechanical | |
| Mounting | 35 mm DIN rail / ReadyRail |
| Weight | 2.2 oz (62 g) |
| Dimensions | 3.96 x 0.874 x 2.42 in (100.5 x 22.2 x 61.5 mm) |



