

BMS AUTO-ID

Overview

EG4®'s new Auto-ID feature brings true plug-and-play simplicity to battery installation. Designed to eliminate the need for manual dipswitch configuration and protocol selection; Auto-ID automatically detects the correct inverter communication protocol and assigns unique battery IDs for seamless multi-battery communication. This innovation is currently being introduced in our EG4 WallMount 314Ah Indoor battery, with plans to extend to future Gen. 3 based designs. Whether you're a first-time installer or a seasoned technician, Auto-ID simplifies your workflow and reduces installation errors, automatically!

WHAT IT DOES

At its core, Auto-ID handles two key functions: protocol detection and ID assignment. When the first battery is powered on and connected, the BMS checks for inverter communication signals and automatically selects the proper protocol. For example, when paired with the EG4 FlexBOSS21 inverter, the BMS would set to the EG4/Lux protocol without requiring any user configuration.

At the same time, the system assigns the first battery as ID:1 (master). Additional batteries added to the chain automatically receive unique IDs in the proper sequence. This means that installers no longer need to set the master unit manually or configure each subsequent battery; the process is handled internally by the BMS.

BENEFITS

The advantages of this system are immediate for installers and end users alike. The removal of dipswitch setup not only saves time but also eliminates a common source of errors. Misconfigured IDs or incorrect protocol settings have historically been frequent causes of communication issues during system commissioning. By automating these functions, Auto-ID reduces the likelihood of such errors and minimizes troubleshooting steps.

For installers, this translates to faster and more consistent setups across multiple projects. For end users, it helps their battery systems communicate reliably with the inverter from the moment they are connected. Support teams also benefit indirectly, as fewer configuration mistakes means service calls take less time walking through these kinds of errors.

KEY HIGHLIGHTS INCLUDE:

- **Simplified Setup:** No dipswitch configuration required.
- **Reduced Errors:** Fewer chances of miscommunication between batteries and inverters.
- **Time Savings:** Faster commissioning in both single and multi-battery installations.

COMPATIBILITY

Auto-ID is only available on EG4 batteries that use our 3rd generation BMS. As of release, this includes the 314Ah Indoor battery. Older EG4 batteries built using the 2nd Gen and lower BMS do not support this feature, and it cannot be added through firmware updates, though this does not stop the 280Ah and 314Ah battery models from communicating and functioning in closed-loop. Moving forward, EG4 intends to continue expanding the 3rd gen BMS architecture across new products, adding Auto-ID as a standard capability in future designs.

CONCLUSION

Auto-ID represents a practical step forward in simplifying battery installation. By removing the need for manual protocol selection and ID assignment, EG4 has addressed a long-standing source of installer frustration and reduced opportunities for errors. The result is a more efficient, plug-and-play experience that benefits installers, end users, and support teams alike. As the 3rd gen BMS platform becomes the foundation for future EG4 products, Auto-ID will play a central role in making advanced energy storage systems easier to deploy and maintain.

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