

NEW FIRMWARE ENHANCEMENTS

This update provides an overview of the key improvements in the current firmware as well as a preview of the enhancements coming in the next release. Recent versions have enhanced charging stability, communication, and system protection. The upcoming update will further build on this foundation, introducing smarter control logic, improved accuracy, expanded device compatibility, and a more streamlined configuration experience.

Current Firmware (2.4.x and prior)

LYNK Firmware (2.4.1)

- Charge termination control maintains 99% SoC until final termination, improving closed-loop charging stability and cell balancing.
- Low-SoC discharge disable configurable via LV-BMS or HV-BMS, enabling user-defined reserve SoC limits.

Older Releases (2.x.x)

- LV-BMS established as the unified closed-loop protocol for broad inverter compatibility across native closed-loop partners.
- Dynamic Current algorithm added to LV-BMS, enabling a shift from voltage-based control to current-based control for tighter power modulation and improved compatibility with modern lithium-focused inverters.

Upcoming December 12 Release (NEW 2.5.x)

LV-BMS, Helios, and Other Updates in Upcoming Release

LV-BMS Dynamic Current Becoming Default Mode

- Dynamic Current mode becomes the default LV-BMS control method.
- Includes automatic charge-voltage (CV) target reduction after charge termination.
 - Reduces CV target by 0.5 V or follows real battery voltage

Dual-LYNK Support (HV-BMS / Cabinet CAN)

- Dual LYNK support for Magna HV cabinets included.

BMS Updates (NEW 4.10.0)

- Improved SoC accuracy during charging through optimized model adjustments.
- Adoption of LV-BMS default dynamic current and low-SoC shutdown logic within BMS for native closed loop communication (Helios).
- High-temperature dynamic ramp-down improvement (all batteries): discharge current limits taper approaching the high-temperature threshold to delay or prevent over-temp shutdown.
- Heating Mode configurability for all heated batteries:
 - Heater Self-Consumption auto-off SoC adjustable from 50% down to as low as 10%.
 - Option to disable self-consumption heating, operating heaters only from a charging source.

Link Access Update (UI)

- Unified release with LYNK II and BMS firmware.
- Provides UI-level configuration tools for LV-BMS and HV-BMS features, including dual-LYNK support and associated device controls.

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