

s-BMS v6.14 release note

Please note that s-BMS v6.14 is bootload compatible with v6.1 – 6.13 releases.

v6.14 contains changes to the BMCU, SUB and PC Software. **v6.14 firmware should be used exclusively on a system, do not mix other firmware/software versions with v6.14.**

The PC Tool “Diagnostic software” is normally supplied as a node locked PC application. Alternatively the PC Tool is supplied on a license USB dongle and can only be started with this dongle connected to the computers USB port.

In case of any questions about the upgrading procedure, please do not hesitate to contact a Lithium Balance technician before attempting to upgrade the firmware.

The firmware version numbers for this release is:

Unit:	Firmware version:	Boot loader version:
BMCU	20000.0A.06.c.014	7
SUB	20000.0A.06.c.014	2, 1 or -1
LMU	20000.0A.06.c.014	2, 1 or -1
PC Tool	20000.6.14.0	Not applicable

s-BMS firmware changes in this release:

BMS FOCUS	CORE BENEFIT	TECHNICAL DESCRIPTION
Usability	Support of alternative NTC components	New function for configuration of NTC table used for calculation of battery temperatures.
Performance	SOH calculation improvement	SOH calculation adjusted to allow maximum 2% changes per discharge cycle.
Usability	Support for Mode-3 chargers	Additional interfacing supporting the required analog signal for Type2/Mode3 chargers control pilot signal to the BMS.
Bug fix	Improved warning	Now also “Charger not responding” warning in case of negative current. Previous version did not report the warning when the BMS measured discharge current (negative current).
Safety	Improved safety	The MOSFET gate driver output now include a watchdog function. The gate output turns OFF in case of SUB communication errors occur.
Bug fix	CAN settings improved	A more robust write method for CAN settings is added. Previous version sometimes did erroneous write configuration operation.
Usability	Improved LMU bootload	The bootload sequence for LMU’s is changed to have a more robust bootload in all scenarios.
Usability	Reset via CAN	Added new function for reset of BMS via CAN.
Bug fix	Removed annoying exception error	Removed exception errors in the PC Diagnostic tool in “Read” cases after the number of LMU’s is changed.
Usability	Not used configuration parameters removed	The configuration parameter for “Current sensor type”, “Settings checksum offset”, “Charger communication” and “Emergency stop” is removed from the Diagnostic tool.
Usability	RS232 communication improvement	The communication sequence for the BMS RS232 interface used for communication with the Diagnostic PC tool is now more robust and do not display the “One or more parameters were not read or written correctly...” as often.