

BayesianBESS — Battery Health Report

Vehicle: VChart_Dataset_1 | Pack-Level Report | Generated: 05 Aug 2026 08:52

Pack Summary

Metric	Value
Total Cells	16
Cells: OK	1
Cells: OBSERVE	15
Cells: CRITICAL	0
Pack SOH (BMS)	100.0%
Avg Cell SOH (spread-derived)	95.5%
Cycle Count	0
Calendar Age	500 days
Lowest Cell RUL	2400 cycles (Cell 1)
Pack Status	OBSERVE

Cell-by-Cell Overview

Cell	Cell SOH	Spread (mV)	RUL (cycles)	Status
Cell 1	95.14%	272.0	2400	OBSERVE
Cell 2	95.68%	242.0	2400	OBSERVE
Cell 3	95.23%	267.0	2400	OBSERVE
Cell 4	95.27%	265.0	2400	OBSERVE
Cell 5	95.36%	260.0	2400	OBSERVE
Cell 6	95.21%	268.0	2400	OBSERVE
Cell 7	95.30%	263.0	2400	OBSERVE
Cell 8	95.27%	265.0	2400	OBSERVE
Cell 9	95.23%	267.0	2400	OBSERVE
Cell 10	95.12%	273.0	2400	OBSERVE
Cell 11	95.25%	266.0	2400	OBSERVE
Cell 12	95.27%	265.0	2400	OBSERVE
Cell 13	95.34%	261.0	2400	OBSERVE

Cell 14	95.07%	276.0	2400	OBSERVE
Cell 15	95.00%	280.0	2400	OBSERVE
Cell 16	100.00%	0.0	2400	OK

Pack BMS SOH: 100.0% | Cell SOH derived from temporal voltage spread (p90–p10, active rows).

Voltage Profile

Cell voltage min/max/spread for all cells (active rows, p10/p90). LFP safe ceiling = 3.65 V. High spread → wider OCV arc traversed → lower cell SOH.

Cell	V Avg	V Min (p10)	V Max (p90)	Spread (mV)	Cell SOH
Cell 1	3.4359	3.2950	3.5670	272.0 ■	95.14%
Cell 2	3.4273	3.2980	3.5400	242.0 ■	95.68%
Cell 3	3.4365	3.2970	3.5640	267.0 ■	95.23%
Cell 4	3.4380	3.2990	3.5640	265.0 ■	95.27%
Cell 5	3.4299	3.2900	3.5500	260.0 ■	95.36%
Cell 6	3.4390	3.2990	3.5670	268.0 ■	95.21%
Cell 7	3.4388	3.2990	3.5620	263.0 ■	95.30%
Cell 8	3.4403	3.3020	3.5670	265.0 ■	95.27%
Cell 9	3.4410	3.3010	3.5680	267.0 ■	95.23%
Cell 10	3.4401	3.2980	3.5710	273.0 ■	95.12%
Cell 11	3.4403	3.3000	3.5660	266.0 ■	95.25%
Cell 12	3.4408	3.3030	3.5680	265.0 ■	95.27%
Cell 13	3.4402	3.3010	3.5620	261.0 ■	95.34%
Cell 14	3.4404	3.3000	3.5760	276.0 ■	95.07%
Cell 15	3.4389	3.2970	3.5770	280.0 ■	95.00%
Cell 16	0.0000	0.0000	0.0000	0.0	100.00%

Pack-Level Findings

- **OBSERVE:** Cell 1: Voltage spread 272mV — monitor cell balance
- **OBSERVE:** Cell 2: Voltage spread 242mV — monitor cell balance
- **OBSERVE:** Cell 3: Voltage spread 267mV — monitor cell balance
- **OBSERVE:** Cell 4: Voltage spread 265mV — monitor cell balance
- **OBSERVE:** Cell 5: Voltage spread 260mV — monitor cell balance
- **OBSERVE:** Cell 6: Voltage spread 268mV — monitor cell balance
- **OBSERVE:** Cell 7: Voltage spread 263mV — monitor cell balance
- **OBSERVE:** Cell 8: Voltage spread 265mV — monitor cell balance
- **OBSERVE:** Cell 9: Voltage spread 267mV — monitor cell balance
- **OBSERVE:** Cell 10: Voltage spread 273mV — monitor cell balance
- **OBSERVE:** Cell 11: Voltage spread 266mV — monitor cell balance

- **OBSERVE:** Cell 12: Voltage spread 265mV — monitor cell balance
- **OBSERVE:** Cell 13: Voltage spread 261mV — monitor cell balance
- **OBSERVE:** Cell 14: Voltage spread 276mV — monitor cell balance
- **OBSERVE:** Cell 15: Voltage spread 280mV — monitor cell balance

Pack Recommendation

OBSERVE: 15 cell(s) show elevated readings. Schedule pack inspection at next maintenance window. Monitor OBSERVE cells daily.