BayesianBESS — Battery Health Report

Vehicle: **VChart900** | Pack-Level Report | Generated: 01 Apr 2026 06:24

Pack Summary

Metric	Value
Total Cells	16
Cells: OK	16
Cells: OBSERVE	0
Cells: CRITICAL	0
Pack SOH (BMS)	100.0%
Avg Cell SOH (spread-derived)	97.7%
Cycle Count	0
Calendar Age	500 days
Lowest Cell RUL	2400 cycles (Cell 1)
Pack Status	**OK**

Cell-by-Cell Overview

Cell	Cell SOH	Spread (mV)	RUL (cycles)	Status
Cell 1	96.25%	138.0	2400	OK
Cell 2	100.00%	129.0	2400	OK
Cell 3	96.25%	138.0	2400	OK
Cell 4	96.25%	138.0	2400	OK
Cell 5	98.75%	132.0	2400	OK
Cell 6	97.50%	135.0	2400	OK
Cell 7	96.67%	137.0	2400	OK
Cell 8	97.50%	135.0	2400	OK
Cell 9	95.00%	141.0	2400	OK
Cell 10	100.00%	129.0	2400	OK
Cell 11	98.33%	133.0	2400	OK
Cell 12	97.08%	136.0	2400	OK
Cell 13	99.58%	130.0	2400	OK

Cell 14	96.25%	138.0	2400	OK
Cell 15	98.33%	133.0	2400	OK
Cell 16	100.00%	129.0	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	3.3244	3.2650	3.4030	138.0 ■	96.25%
Cell 2	3.3260	3.2700	3.3990	129.0 ■	100.00%
Cell 3	3.3257	3.2700	3.4080	138.0 ■	96.25%
Cell 4	3.3252	3.2690	3.4070	138.0 ■	96.25%
Cell 5	3.3248	3.2690	3.4010	132.0 ■	98.75%
Cell 6	3.3256	3.2680	3.4030	135.0 ■	97.50%
Cell 7	3.3239	3.2670	3.4040	137.0 ■	96.67%
Cell 8	3.3250	3.2670	3.4020	135.0 ■	97.50%
Cell 9	3.3259	3.2680	3.4090	141.0 ■	95.00%
Cell 10	3.3243	3.2680	3.3970	129.0 ■	100.00%
Cell 11	3.3246	3.2700	3.4030	133.0 ■	98.33%
Cell 12	3.3257	3.2690	3.4050	136.0 ■	97.08%
Cell 13	3.3240	3.2680	3.3980	130.0 ■	99.58%
Cell 14	3.3236	3.2670	3.4050	138.0 ■	96.25%
Cell 15	3.3240	3.2680	3.4010	133.0 ■	98.33%
Cell 16	3.3243	3.2680	3.3970	129.0 ■	100.00%

Pack-Level Findings

✓ All cells operating within normal parameters.

Pack Recommendation

OK: All 16 cells operating normally. Continue standard monitoring schedule.