BayesianBESS — Battery Health Report

Vehicle: **VChart (3)** | Pack-Level Report | Generated: 26 Mar 2026 06:23

Pack Summary

Metric	Value
Total Cells	16
Cells: OK	0
Cells: OBSERVE	0
Cells: CRITICAL	16
Pack SOH (BMS)	50.0%
Avg Cell SOH (spread-derived)	80.0%
Cycle Count	6440
Calendar Age	500 days
Lowest Cell RUL	0 cycles (Cell 1)
Pack Status	**CRITICAL**

Cell-by-Cell Overview

Cell	Cell SOH	Spread (mV)	RUL (cycles)	Status
Cell 1	80.00%	106.0	0	CRITICAL
Cell 2	80.00%	110.0	0	CRITICAL
Cell 3	80.00%	109.0	0	CRITICAL
Cell 4	80.00%	110.0	0	CRITICAL
Cell 5	80.00%	109.8	0	CRITICAL
Cell 6	80.00%	110.9	0	CRITICAL
Cell 7	80.00%	110.0	0	CRITICAL
Cell 8	80.00%	108.0	0	CRITICAL
Cell 9	80.00%	111.9	0	CRITICAL
Cell 10	80.00%	110.0	0	CRITICAL
Cell 11	80.00%	111.0	0	CRITICAL
Cell 12	80.00%	106.0	0	CRITICAL
Cell 13	80.00%	111.0	0	CRITICAL

Cell 14	80.00%	111.0	0	CRITICAL
Cell 15	80.00%	109.0	0	CRITICAL
Cell 16	80.00%	111.0	0	CRITICAL

Pack BMS SOH: 50.0% | 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	3.3150	3.2640	3.3700	106.0 ■	80.00%
Cell 2	3.3150	3.2620	3.3720	110.0 ■	80.00%
Cell 3	3.3168	3.2640	3.3730	109.0 ■	80.00%
Cell 4	3.3164	3.2630	3.3730	110.0 ■	80.00%
Cell 5	3.3171	3.2641	3.3739	109.8 ■	80.00%
Cell 6	3.3153	3.2621	3.3730	110.9 ■	80.00%
Cell 7	3.3165	3.2640	3.3740	110.0 ■	80.00%
Cell 8	3.3167	3.2650	3.3730	108.0 ■	80.00%
Cell 9	3.3148	3.2611	3.3730	111.9 ■	80.00%
Cell 10	3.3143	3.2620	3.3720	110.0 ■	80.00%
Cell 11	3.3150	3.2620	3.3730	111.0 ■	80.00%
Cell 12	3.3135	3.2630	3.3690	106.0 ■	80.00%
Cell 13	3.3143	3.2610	3.3720	111.0 ■	80.00%
Cell 14	3.3155	3.2620	3.3730	111.0 ■	80.00%
Cell 15	3.3164	3.2640	3.3730	109.0 ■	80.00%
Cell 16	3.3157	3.2630	3.3740	111.0 ■	80.00%

Pack-Level Findings

● **OBSERVE:** Cell 1: Cell SOH 80.0% approaching caution threshold 85%
■ **CRITICAL:** Cell 1: RUL 0 cycles — end-of-life imminent
● **OBSERVE:** Cell 2: Cell SOH 80.0% approaching caution threshold 85%
■ **CRITICAL:** Cell 2: RUL 0 cycles — end-of-life imminent
● **OBSERVE:** Cell 3: Cell SOH 80.0% approaching caution threshold 85%
■ **CRITICAL:** Cell 3: RUL 0 cycles — end-of-life imminent
● **OBSERVE:** Cell 4: Cell SOH 80.0% approaching caution threshold 85%
■ **CRITICAL:** Cell 4: RUL 0 cycles — end-of-life imminent
● **OBSERVE:** Cell 5: Cell SOH 80.0% approaching caution threshold 85%
■ **CRITICAL:** Cell 5: RUL 0 cycles — end-of-life imminent
● **OBSERVE:** Cell 6: Cell SOH 80.0% approaching caution threshold 85%

■ **CRITICAL:** Cell 6: RUL 0 cycles — end-of-life imminent
● **OBSERVE:** Cell 7: Cell SOH 80.0% approaching caution threshold 85%
■ **CRITICAL:** Cell 7: RUL 0 cycles — end-of-life imminent
● **OBSERVE:** Cell 8: Cell SOH 80.0% approaching caution threshold 85%
■ **CRITICAL:** Cell 8: RUL 0 cycles — end-of-life imminent
● **OBSERVE:** Cell 9: Cell SOH 80.0% approaching caution threshold 85%
■ **CRITICAL:** Cell 9: RUL 0 cycles — end-of-life imminent
● **OBSERVE:** Cell 10: Cell SOH 80.0% approaching caution threshold 85%
■ **CRITICAL:** Cell 10: RUL 0 cycles — end-of-life imminent
● **OBSERVE:** Cell 11: Cell SOH 80.0% approaching caution threshold 85%
■ **CRITICAL:** Cell 11: RUL 0 cycles — end-of-life imminent
● **OBSERVE:** Cell 12: Cell SOH 80.0% approaching caution threshold 85%
■ **CRITICAL:** Cell 12: RUL 0 cycles — end-of-life imminent
● **OBSERVE:** Cell 13: Cell SOH 80.0% approaching caution threshold 85%
■ **CRITICAL:** Cell 13: RUL 0 cycles — end-of-life imminent
● **OBSERVE:** Cell 14: Cell SOH 80.0% approaching caution threshold 85%
■ **CRITICAL:** Cell 14: RUL 0 cycles — end-of-life imminent
● **OBSERVE:** Cell 15: Cell SOH 80.0% approaching caution threshold 85%
■ **CRITICAL:** Cell 15: RUL 0 cycles — end-of-life imminent
● **OBSERVE:** Cell 16: Cell SOH 80.0% approaching caution threshold 85%
■ **CRITICAL:** Cell 16: RUL 0 cycles — end-of-life imminent

Pack Recommendation

CRITICAL: 16 cell(s) exceed safe limits. Pack should be inspected immediately. Identify REJECT/CRITICAL cells and evaluate replacement.