BayesianBESS — Battery Health Report

Vehicle: **VChart (2)** | Pack-Level Report | Generated: 01 Apr 2026 06:21

Pack Summary

Metric	Value
Total Cells	16
Cells: OK	0
Cells: OBSERVE	16
Cells: CRITICAL	0
Pack SOH (BMS)	100.0%
Avg Cell SOH (spread-derived)	98.0%
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	95.00%	289.0	2400	OBSERVE
Cell 2	99.00%	277.0	2400	OBSERVE
Cell 3	97.00%	283.0	2400	OBSERVE
Cell 4	96.33%	285.0	2400	OBSERVE
Cell 5	100.00%	274.0	2400	OBSERVE
Cell 6	99.00%	277.0	2400	OBSERVE
Cell 7	95.33%	288.0	2400	OBSERVE
Cell 8	99.00%	277.0	2400	OBSERVE
Cell 9	98.00%	280.0	2400	OBSERVE
Cell 10	99.33%	276.0	2400	OBSERVE
Cell 11	99.67%	275.0	2400	OBSERVE
Cell 12	98.00%	280.0	2400	OBSERVE
Cell 13	99.33%	276.0	2400	OBSERVE

Cell 14	96.33%	285.0	2400	OBSERVE
Cell 15	97.67%	281.0	2400	OBSERVE
Cell 16	99.00%	277.0	2400	OBSERVE

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	3.2977	3.1990	3.4880	289.0 ■	95.00%
Cell 2	3.2987	3.2020	3.4790	277.0 ■	99.00%
Cell 3	3.2989	3.2020	3.4850	283.0 ■	97.00%
Cell 4	3.2983	3.2010	3.4860	285.0 ■	96.33%
Cell 5	3.2996	3.2040	3.4780	274.0 ■	100.00%
Cell 6	3.2981	3.2010	3.4780	277.0 ■	99.00%
Cell 7	3.2983	3.2000	3.4880	288.0 ■	95.33%
Cell 8	3.2992	3.2010	3.4780	277.0 ■	99.00%
Cell 9	3.2991	3.2010	3.4810	280.0 ■	98.00%
Cell 10	3.2988	3.2020	3.4780	276.0 ■	99.33%
Cell 11	3.2985	3.2030	3.4780	275.0 ■	99.67%
Cell 12	3.2989	3.1980	3.4780	280.0 ■	98.00%
Cell 13	3.2999	3.2030	3.4790	276.0 ■	99.33%
Cell 14	3.2979	3.1980	3.4830	285.0 ■	96.33%
Cell 15	3.2993	3.2030	3.4840	281.0 ■	97.67%
Cell 16	3.2989	3.1980	3.4750	277.0 ■	99.00%

Pack-Level Findings

- **OBSERVE:** Cell 1: Voltage spread 289mV — monitor cell balance
- **OBSERVE:** Cell 2: Voltage spread 277mV — monitor cell balance
- **OBSERVE:** Cell 3: Voltage spread 283mV — monitor cell balance
- **OBSERVE:** Cell 4: Voltage spread 285mV — monitor cell balance
- **OBSERVE:** Cell 5: Voltage spread 274mV — monitor cell balance
- **OBSERVE:** Cell 6: Voltage spread 277mV — monitor cell balance
- **OBSERVE:** Cell 7: Voltage spread 288mV — monitor cell balance
- **OBSERVE:** Cell 8: Voltage spread 277mV — monitor cell balance
- **OBSERVE:** Cell 9: Voltage spread 280mV — monitor cell balance
- **OBSERVE:** Cell 10: Voltage spread 276mV — monitor cell balance
- **OBSERVE:** Cell 11: Voltage spread 275mV — monitor cell balance

- **OBSERVE:** Cell 12: Voltage spread 280mV — monitor cell balance
- **OBSERVE:** Cell 13: Voltage spread 276mV — monitor cell balance
- **OBSERVE:** Cell 14: Voltage spread 285mV — monitor cell balance
- **OBSERVE:** Cell 15: Voltage spread 281mV — monitor cell balance
- **OBSERVE:** Cell 16: Voltage spread 277mV — monitor cell balance

Pack Recommendation

OBSERVE: 16 cell(s) show elevated readings. Schedule pack inspection at next maintenance window. Monitor OBSERVE cells daily.