BayesianBESS — Battery Health Report

Vehicle: **VChart897** | Pack-Level Report | Generated: 01 Apr 2026 06:23

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%	193.0	2400	OBSERVE
Cell 2	99.00%	189.0	2400	OBSERVE
Cell 3	97.00%	191.0	2400	OBSERVE
Cell 4	97.00%	191.0	2400	OBSERVE
Cell 5	98.00%	190.0	2400	OBSERVE
Cell 6	99.00%	189.0	2400	OBSERVE
Cell 7	98.00%	190.0	2400	OBSERVE
Cell 8	95.00%	193.0	2400	OBSERVE
Cell 9	97.00%	191.0	2400	OBSERVE
Cell 10	97.00%	191.0	2400	OBSERVE
Cell 11	99.00%	189.0	2400	OBSERVE
Cell 12	100.00%	188.0	2400	OBSERVE
Cell 13	100.00%	188.0	2400	OBSERVE

Cell 14	100.00%	188.0	2400	OBSERVE
Cell 15	99.00%	189.0	2400	OBSERVE
Cell 16	98.00%	190.0	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	3.2807	3.2230	3.4160	193.0 ■	95.00%
Cell 2	3.2814	3.2240	3.4130	189.0 ■	99.00%
Cell 3	3.2827	3.2240	3.4150	191.0 ■	97.00%
Cell 4	3.2829	3.2250	3.4160	191.0 ■	97.00%
Cell 5	3.2819	3.2230	3.4130	190.0 ■	98.00%
Cell 6	3.2837	3.2250	3.4140	189.0 ■	99.00%
Cell 7	3.2822	3.2250	3.4150	190.0 ■	98.00%
Cell 8	3.2822	3.2250	3.4180	193.0 ■	95.00%
Cell 9	3.2838	3.2270	3.4180	191.0 ■	97.00%
Cell 10	3.2821	3.2250	3.4160	191.0 ■	97.00%
Cell 11	3.2817	3.2250	3.4140	189.0 ■	99.00%
Cell 12	3.2814	3.2260	3.4140	188.0 ■	100.00%
Cell 13	3.2822	3.2260	3.4140	188.0 ■	100.00%
Cell 14	3.2830	3.2270	3.4150	188.0 ■	100.00%
Cell 15	3.2809	3.2250	3.4140	189.0 ■	99.00%
Cell 16	3.2819	3.2260	3.4160	190.0 ■	98.00%

Pack-Level Findings

- **OBSERVE:** Cell 1: Voltage spread 193mV — monitor cell balance
- **OBSERVE:** Cell 2: Voltage spread 189mV — monitor cell balance
- **OBSERVE:** Cell 3: Voltage spread 191mV — monitor cell balance
- **OBSERVE:** Cell 4: Voltage spread 191mV — monitor cell balance
- **OBSERVE:** Cell 5: Voltage spread 190mV — monitor cell balance
- **OBSERVE:** Cell 6: Voltage spread 189mV — monitor cell balance
- **OBSERVE:** Cell 7: Voltage spread 190mV — monitor cell balance
- **OBSERVE:** Cell 8: Voltage spread 193mV — monitor cell balance
- **OBSERVE:** Cell 9: Voltage spread 191mV — monitor cell balance
- **OBSERVE:** Cell 10: Voltage spread 191mV — monitor cell balance
- **OBSERVE:** Cell 11: Voltage spread 189mV — monitor cell balance

- **OBSERVE:** Cell 12: Voltage spread 188mV — monitor cell balance
- **OBSERVE:** Cell 13: Voltage spread 188mV — monitor cell balance
- **OBSERVE:** Cell 14: Voltage spread 188mV — monitor cell balance
- **OBSERVE:** Cell 15: Voltage spread 189mV — monitor cell balance
- **OBSERVE:** Cell 16: Voltage spread 190mV — monitor cell balance

Pack Recommendation

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