

BayesianBESS — Battery Health Report

Vehicle: VChart898 | Pack-Level Report | Generated: 01 Apr 2026 06:24

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)	98.2%
Cycle Count	0
Calendar Age	200 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	96.50%	220.0	2400	OBSERVE
Cell 2	97.00%	219.0	2400	OBSERVE
Cell 3	99.00%	215.0	2400	OBSERVE
Cell 4	100.00%	213.0	2400	OBSERVE
Cell 5	99.50%	214.0	2400	OBSERVE
Cell 6	98.00%	217.0	2400	OBSERVE
Cell 7	99.00%	215.0	2400	OBSERVE
Cell 8	95.50%	222.0	2400	OBSERVE
Cell 9	95.00%	223.0	2400	OBSERVE
Cell 10	98.50%	216.0	2400	OBSERVE
Cell 11	97.00%	219.0	2400	OBSERVE
Cell 12	99.00%	215.0	2400	OBSERVE
Cell 13	98.00%	217.0	2400	OBSERVE

Cell 14	99.50%	214.0	2400	OBSERVE
Cell 15	100.00%	213.0	2400	OBSERVE
Cell 16	99.00%	215.0	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	3.3156	3.2270	3.4470	220.0 ■	96.50%
Cell 2	3.3147	3.2260	3.4450	219.0 ■	97.00%
Cell 3	3.3146	3.2270	3.4420	215.0 ■	99.00%
Cell 4	3.3147	3.2270	3.4400	213.0 ■	100.00%
Cell 5	3.3150	3.2260	3.4400	214.0 ■	99.50%
Cell 6	3.3147	3.2260	3.4430	217.0 ■	98.00%
Cell 7	3.3155	3.2280	3.4430	215.0 ■	99.00%
Cell 8	3.3145	3.2270	3.4490	222.0 ■	95.50%
Cell 9	3.3161	3.2280	3.4510	223.0 ■	95.00%
Cell 10	3.3152	3.2270	3.4430	216.0 ■	98.50%
Cell 11	3.3146	3.2260	3.4450	219.0 ■	97.00%
Cell 12	3.3151	3.2280	3.4430	215.0 ■	99.00%
Cell 13	3.3151	3.2260	3.4430	217.0 ■	98.00%
Cell 14	3.3140	3.2260	3.4400	214.0 ■	99.50%
Cell 15	3.3140	3.2260	3.4390	213.0 ■	100.00%
Cell 16	3.3151	3.2270	3.4420	215.0 ■	99.00%

Pack-Level Findings

- **OBSERVE:** Cell 1: Voltage spread 220mV — monitor cell balance
- **OBSERVE:** Cell 2: Voltage spread 219mV — monitor cell balance
- **OBSERVE:** Cell 3: Voltage spread 215mV — monitor cell balance
- **OBSERVE:** Cell 4: Voltage spread 213mV — monitor cell balance
- **OBSERVE:** Cell 5: Voltage spread 214mV — monitor cell balance
- **OBSERVE:** Cell 6: Voltage spread 217mV — monitor cell balance
- **OBSERVE:** Cell 7: Voltage spread 215mV — monitor cell balance
- **OBSERVE:** Cell 8: Voltage spread 222mV — monitor cell balance
- **OBSERVE:** Cell 9: Voltage spread 223mV — monitor cell balance
- **OBSERVE:** Cell 10: Voltage spread 216mV — monitor cell balance
- **OBSERVE:** Cell 11: Voltage spread 219mV — monitor cell balance

- **OBSERVE:** Cell 12: Voltage spread 215mV — monitor cell balance
- **OBSERVE:** Cell 13: Voltage spread 217mV — monitor cell balance
- **OBSERVE:** Cell 14: Voltage spread 214mV — monitor cell balance
- **OBSERVE:** Cell 15: Voltage spread 213mV — monitor cell balance
- **OBSERVE:** Cell 16: Voltage spread 215mV — monitor cell balance

Pack Recommendation

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