BayesianBESS — Battery Health Report

Vehicle: **VChart (3)** | Pack-Level Report | Generated: 01 Apr 2026 06:22

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)	97.4%
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	97.31%	200.0	2400	OBSERVE
Cell 2	96.54%	202.0	2400	OBSERVE
Cell 3	96.54%	202.0	2400	OBSERVE
Cell 4	96.92%	201.0	2400	OBSERVE
Cell 5	96.54%	202.0	2400	OBSERVE
Cell 6	96.54%	202.0	2400	OBSERVE
Cell 7	96.15%	203.0	2400	OBSERVE
Cell 8	95.38%	205.0	2400	OBSERVE
Cell 9	99.23%	195.0	2400	OBSERVE
Cell 10	98.85%	196.0	2400	OBSERVE
Cell 11	100.00%	193.0	2400	OBSERVE
Cell 12	98.46%	197.0	2400	OBSERVE
Cell 13	98.85%	196.0	2400	OBSERVE

Cell 14	96.92%	201.0	2400	OBSERVE
Cell 15	99.23%	195.0	2400	OBSERVE
Cell 16	95.00%	206.0	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	3.3622	3.2570	3.4570	200.0 ■	97.31%
Cell 2	3.3626	3.2590	3.4610	202.0 ■	96.54%
Cell 3	3.3641	3.2600	3.4620	202.0 ■	96.54%
Cell 4	3.3627	3.2570	3.4580	201.0 ■	96.92%
Cell 5	3.3636	3.2570	3.4590	202.0 ■	96.54%
Cell 6	3.3626	3.2580	3.4600	202.0 ■	96.54%
Cell 7	3.3638	3.2580	3.4610	203.0 ■	96.15%
Cell 8	3.3661	3.2610	3.4660	205.0 ■	95.38%
Cell 9	3.3603	3.2560	3.4510	195.0 ■	99.23%
Cell 10	3.3639	3.2660	3.4620	196.0 ■	98.85%
Cell 11	3.3634	3.2680	3.4610	193.0 ■	100.00%
Cell 12	3.3635	3.2650	3.4620	197.0 ■	98.46%
Cell 13	3.3644	3.2650	3.4610	196.0 ■	98.85%
Cell 14	3.3633	3.2630	3.4640	201.0 ■	96.92%
Cell 15	3.3637	3.2650	3.4600	195.0 ■	99.23%
Cell 16	3.3636	3.2600	3.4660	206.0 ■	95.00%

Pack-Level Findings

- **OBSERVE:** Cell 1: Voltage spread 200mV — monitor cell balance
- **OBSERVE:** Cell 2: Voltage spread 202mV — monitor cell balance
- **OBSERVE:** Cell 3: Voltage spread 202mV — monitor cell balance
- **OBSERVE:** Cell 4: Voltage spread 201mV — monitor cell balance
- **OBSERVE:** Cell 5: Voltage spread 202mV — monitor cell balance
- **OBSERVE:** Cell 6: Voltage spread 202mV — monitor cell balance
- **OBSERVE:** Cell 7: Voltage spread 203mV — monitor cell balance
- **OBSERVE:** Cell 8: Voltage spread 205mV — monitor cell balance
- **OBSERVE:** Cell 9: Voltage spread 195mV — monitor cell balance
- **OBSERVE:** Cell 10: Voltage spread 196mV — monitor cell balance
- **OBSERVE:** Cell 11: Voltage spread 193mV — monitor cell balance

- **OBSERVE:** Cell 12: Voltage spread 197mV — monitor cell balance
- **OBSERVE:** Cell 13: Voltage spread 196mV — monitor cell balance
- **OBSERVE:** Cell 14: Voltage spread 201mV — monitor cell balance
- **OBSERVE:** Cell 15: Voltage spread 195mV — monitor cell balance
- **OBSERVE:** Cell 16: Voltage spread 206mV — monitor cell balance

Pack Recommendation

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