BayesianBESS — Battery Health Report

Vehicle: **VChart (5)** | Pack-Level Report | Generated: 01 Apr 2026 06:31

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)	98.5%
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	98.89%	195.0	2400	OBSERVE
Cell 2	96.17%	239.0	2400	OBSERVE
Cell 3	99.69%	182.0	2400	OBSERVE
Cell 4	98.70%	198.0	2400	OBSERVE
Cell 5	98.58%	200.0	2400	OBSERVE
Cell 6	99.07%	192.0	2400	OBSERVE
Cell 7	95.00%	258.0	2400	OBSERVE
Cell 8	99.14%	191.0	2400	OBSERVE
Cell 9	97.35%	220.0	2400	OBSERVE
Cell 10	100.00%	177.0	2400	OBSERVE
Cell 11	99.75%	181.0	2400	OBSERVE
Cell 12	98.58%	200.0	2400	OBSERVE
Cell 13	98.52%	201.0	2400	OBSERVE

Cell 14	99.14%	191.0	2400	OBSERVE
Cell 15	99.44%	186.0	2400	OBSERVE
Cell 16	98.46%	202.0	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	3.3306	3.2390	3.4340	195.0 ■	98.89%
Cell 2	3.3508	3.2390	3.4780	239.0 ■	96.17%
Cell 3	3.3313	3.2400	3.4220	182.0 ■	99.69%
Cell 4	3.3327	3.2390	3.4370	198.0 ■	98.70%
Cell 5	3.3334	3.2400	3.4400	200.0 ■	98.58%
Cell 6	3.3322	3.2410	3.4330	192.0 ■	99.07%
Cell 7	3.3582	3.2400	3.4980	258.0 ■	95.00%
Cell 8	3.3326	3.2420	3.4330	191.0 ■	99.14%
Cell 9	3.3451	3.2420	3.4620	220.0 ■	97.35%
Cell 10	3.3301	3.2420	3.4190	177.0 ■	100.00%
Cell 11	3.3314	3.2420	3.4230	181.0 ■	99.75%
Cell 12	3.3322	3.2400	3.4400	200.0 ■	98.58%
Cell 13	3.3337	3.2410	3.4420	201.0 ■	98.52%
Cell 14	3.3310	3.2400	3.4310	191.0 ■	99.14%
Cell 15	3.3319	3.2380	3.4240	186.0 ■	99.44%
Cell 16	3.3325	3.2370	3.4390	202.0 ■	98.46%

Pack-Level Findings

- **OBSERVE:** Cell 1: Voltage spread 195mV — monitor cell balance
- **OBSERVE:** Cell 2: Voltage spread 239mV — monitor cell balance
- **OBSERVE:** Cell 3: Voltage spread 182mV — monitor cell balance
- **OBSERVE:** Cell 4: Voltage spread 198mV — monitor cell balance
- **OBSERVE:** Cell 5: Voltage spread 200mV — monitor cell balance
- **OBSERVE:** Cell 6: Voltage spread 192mV — monitor cell balance
- **OBSERVE:** Cell 7: Voltage spread 258mV — monitor cell balance
- **OBSERVE:** Cell 8: Voltage spread 191mV — monitor cell balance
- **OBSERVE:** Cell 9: Voltage spread 220mV — monitor cell balance
- **OBSERVE:** Cell 10: Voltage spread 177mV — monitor cell balance
- **OBSERVE:** Cell 11: Voltage spread 181mV — monitor cell balance

- **OBSERVE:** Cell 12: Voltage spread 200mV — monitor cell balance
- **OBSERVE:** Cell 13: Voltage spread 201mV — monitor cell balance
- **OBSERVE:** Cell 14: Voltage spread 191mV — monitor cell balance
- **OBSERVE:** Cell 15: Voltage spread 186mV — monitor cell balance
- **OBSERVE:** Cell 16: Voltage spread 202mV — monitor cell balance

Pack Recommendation

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