BayesianBESS — Battery Health Report

Vehicle: **VChart (8)** | Pack-Level Report | Generated: 26 Mar 2026 06:41

Pack Summary

Metric	Value
Total Cells	16
Cells: OK	15
Cells: OBSERVE	1
Cells: CRITICAL	0
Pack SOH (BMS)	99.2%
Avg Cell SOH (spread-derived)	97.1%
Cycle Count	0
Calendar Age	300 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	94.18%	22.0	2400	OK
Cell 2	97.75%	17.0	2400	OK
Cell 3	97.75%	17.0	2400	OK
Cell 4	96.32%	19.0	2400	OK
Cell 5	95.61%	20.0	2400	OK
Cell 6	97.04%	18.0	2400	OK
Cell 7	97.04%	18.0	2400	OK
Cell 8	96.32%	19.0	2400	OK
Cell 9	97.04%	18.0	2400	OK
Cell 10	97.75%	17.0	2400	OK
Cell 11	99.18%	15.0	2400	OK
Cell 12	99.18%	15.0	2400	OK
Cell 13	98.46%	16.0	2400	OK

Cell 14	96.32%	19.0	2400	OK
Cell 15	97.04%	18.0	2400	OK
Cell 16	96.32%	19.0	2400	OBSERVE

Pack BMS SOH: 99.2% | 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	3.3316	3.3220	3.3440	22.0	94.18%
Cell 2	3.3253	3.3180	3.3350	17.0	97.75%
Cell 3	3.3245	3.3170	3.3340	17.0	97.75%
Cell 4	3.3259	3.3180	3.3370	19.0	96.32%
Cell 5	3.3272	3.3190	3.3390	20.0	95.61%
Cell 6	3.3256	3.3180	3.3360	18.0	97.04%
Cell 7	3.3260	3.3180	3.3360	18.0	97.04%
Cell 8	3.3259	3.3180	3.3370	19.0	96.32%
Cell 9	3.3237	3.3160	3.3340	18.0	97.04%
Cell 10	3.3278	3.3210	3.3380	17.0	97.75%
Cell 11	3.3254	3.3190	3.3340	15.0	99.18%
Cell 12	3.3249	3.3180	3.3330	15.0	99.18%
Cell 13	3.3253	3.3180	3.3340	16.0	98.46%
Cell 14	3.3279	3.3200	3.3390	19.0	96.32%
Cell 15	3.3260	3.3180	3.3360	18.0	97.04%
Cell 16	3.3270	3.3190	3.3380	19.0	96.32%

Pack-Level Findings

● **OBSERVE:** Cell 16: Temperature 0.0°C below safe operating limit (5°C)

Pack Recommendation

OBSERVE: 1 cell(s) show elevated readings. Schedule pack inspection at next maintenance window. Monitor OBSERVE cells daily.