

BayesianBESS — Battery Health Report

Vehicle: VChart959 | Pack-Level Report | Generated: 13 Apr 2026 09:14

Pack Summary

| Metric | Value |
|-------------------------------|----------------------|
| Total Cells | 16 |
| Cells: OK | 16 |
| Cells: OBSERVE | 0 |
| Cells: CRITICAL | 0 |
| Pack SOH (BMS) | 100.0% |
| Avg Cell SOH (spread-derived) | 96.6% |
| Cycle Count | 0 |
| Calendar Age | 500 days |
| Lowest Cell RUL | 2400 cycles (Cell 1) |
| Pack Status | OK |

Cell-by-Cell Overview

| Cell | Cell SOH | Spread (mV) | RUL (cycles) | Status |
|---------|----------|-------------|--------------|--------|
| Cell 1 | 97.73% | 89.0 | 2400 | OK |
| Cell 2 | 95.91% | 93.0 | 2400 | OK |
| Cell 3 | 95.45% | 94.0 | 2400 | OK |
| Cell 4 | 96.36% | 92.0 | 2400 | OK |
| Cell 5 | 95.91% | 93.0 | 2400 | OK |
| Cell 6 | 96.36% | 92.0 | 2400 | OK |
| Cell 7 | 96.36% | 92.0 | 2400 | OK |
| Cell 8 | 97.27% | 90.0 | 2400 | OK |
| Cell 9 | 97.73% | 89.0 | 2400 | OK |
| Cell 10 | 96.82% | 91.0 | 2400 | OK |
| Cell 11 | 95.91% | 93.0 | 2400 | OK |
| Cell 12 | 95.00% | 95.0 | 2400 | OK |
| Cell 13 | 98.18% | 88.0 | 2400 | OK |

| | | | | |
|---------|---------|------|------|----|
| Cell 14 | 95.45% | 94.0 | 2400 | OK |
| Cell 15 | 95.00% | 95.0 | 2400 | OK |
| Cell 16 | 100.00% | 84.0 | 2400 | OK |

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 | 3.3154 | 3.2390 | 3.3280 | 89.0 ■ | 97.73% |
| Cell 2 | 3.3142 | 3.2340 | 3.3270 | 93.0 ■ | 95.91% |
| Cell 3 | 3.3153 | 3.2350 | 3.3290 | 94.0 ■ | 95.45% |
| Cell 4 | 3.3150 | 3.2360 | 3.3280 | 92.0 ■ | 96.36% |
| Cell 5 | 3.3151 | 3.2350 | 3.3280 | 93.0 ■ | 95.91% |
| Cell 6 | 3.3157 | 3.2370 | 3.3290 | 92.0 ■ | 96.36% |
| Cell 7 | 3.3153 | 3.2360 | 3.3280 | 92.0 ■ | 96.36% |
| Cell 8 | 3.3142 | 3.2370 | 3.3270 | 90.0 ■ | 97.27% |
| Cell 9 | 3.3151 | 3.2400 | 3.3290 | 89.0 ■ | 97.73% |
| Cell 10 | 3.3150 | 3.2370 | 3.3280 | 91.0 ■ | 96.82% |
| Cell 11 | 3.3123 | 3.2330 | 3.3260 | 93.0 ■ | 95.91% |
| Cell 12 | 3.3151 | 3.2340 | 3.3290 | 95.0 ■ | 95.00% |
| Cell 13 | 3.3149 | 3.2400 | 3.3280 | 88.0 ■ | 98.18% |
| Cell 14 | 3.3140 | 3.2330 | 3.3270 | 94.0 ■ | 95.45% |
| Cell 15 | 3.3150 | 3.2340 | 3.3290 | 95.0 ■ | 95.00% |
| Cell 16 | 3.3141 | 3.2430 | 3.3270 | 84.0 ■ | 100.00% |

Pack-Level Findings

✓ All cells operating within normal parameters.

Pack Recommendation

OK: All 16 cells operating normally. Continue standard monitoring schedule.