

INDEPENDENT BATTERY CERTIFICATE



CERTIFICATE NUMBER: FF062FD3-CE18-4CDB-96B9-17E18AA58A91

VEHICLE

BRAND: Tesla
MODEL: Model Y - 78,8 kWh

MILEAGE: 4,342 km
VIN: LRWYHCEK4SC016708
DATE AND TIME:
29/06/2026, 12:37

EXECUTED BY: Carma

RESULTS

Independent
STATE OF HEALTH (SOH)

98.8 %

ENERGY 78kWh | 79kWh

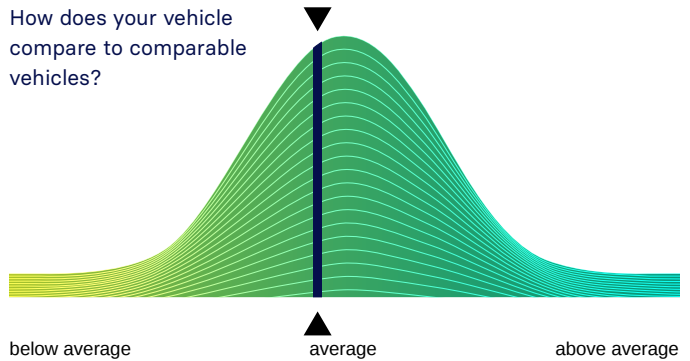


WLTP RANGE 614km | 622km

RATING

BENCHMARKING

How does your vehicle compare to comparable vehicles?



CHECKS

- Battery Management System (BMS) ✓
- Battery Sensor ✓
- Battery Measurements ✓
- Battery Cell Voltages ✓
- Vehicle Communication ✓



SCAN FOR DETAILS

EVALUATION

EXCELLENT HEALTH - NO ABNORMALITIES DETECTED

Based on the detailed battery diagnostics performed with the AVILOO FLASH Test, we hereby certify that the drive battery of this vehicle is in excellent condition.

The drive battery is therefore officially AVILOO Certified.

Marcus Berger

Dr. Marcus Berger, CEO



ENERGY

	Gross	Net (Nominal)	Usable
Current:	77.8kWh	77.8kWh	74.3kWh
New:	78.8kWh	78.8kWh	75.3kWh

RANGE

	WLTP	Typical	Individual
Current:	507-614km	396km	334km
New:	514-622km	401km	338km

EXECUTION PROTOCOL

AVILOO Box connected.	12:36:57
FLASH Test started.	✓
Vehicle detected.	✓
Starting data acquisition.	✓
Finished data acquisition.	✓
Analyzing data.	✓
Analysis completed.	✓

SENSORS

Voltage Sensor	✓
Current Sensor	✓
Temperature Sensors	✓
Cell Voltage Sensors	✓

BMS

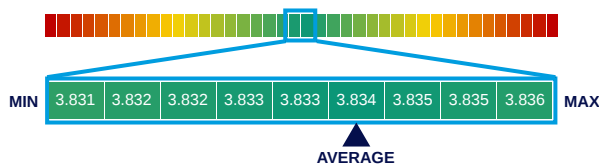
	Value	Status
BMS State of Charge (SoC)*:	52%	
SoC calculation accuracy:		✓
BMS State of Health (SoH)*:	99%	
SoH calculation accuracy:		✓

MEASUREMENTS

	Min	Max	Delta	Status
Battery Temperature	17.0°C	17.5°C	0.5°C	✓
Cell Voltage	3.831V	3.836V	5mV	✓
Pack Voltage	368.0V			
Average Current	-1.6A			

CELL VOLTAGES DIAGRAM

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1 - 20	3.835	3.834	3.833	3.833	3.834	3.835	3.834	3.834	3.834	3.834	3.834	3.834	3.833	3.833	3.834	3.833	3.834	3.833	3.834	3.834
21 - 40	3.833	3.834	3.835	3.833	3.832	3.832	3.832	3.832	3.832	3.832	3.832	3.832	3.831	3.831	3.831	3.836	3.836	3.836	3.836	3.836
41 - 60	3.836	3.836	3.836	3.836	3.836	3.836	3.835	3.836	3.834	3.834	3.834	3.833	3.834	3.834	3.834	3.833	3.834	3.833	3.834	3.833
61 - 80	3.832	3.832	3.832	3.833	3.832	3.832	3.832	3.832	3.833	3.832	3.832	3.832	3.832	3.832	3.832	3.832	3.832	3.832	3.832	3.832
81 - 96	3.832	3.832	3.832	3.832	3.835	3.836	3.835	3.835	3.835	3.834	3.835	3.834	3.834	3.834	3.835	3.835	3.835	/	/	/



*The values shown here were read directly from the vehicle's battery management system (BMS) and are calculated and provided by the vehicle manufacturer. The State of Health (SoH) displayed corresponds to the value reported by the BMS and is CARA-certified.

DISCLAIMER: The test result includes the currently calculated state of health (SoH) of the drive battery. The determination is based on data provided by the vehicle. These are evaluated by AVILOO's algorithms using statistical and analytical models. Manipulation of the data in the control unit leads to an incorrect result. The indicated SoH has a technically induced fluctuation range (deviation) of no more than 3% in at least 95% of reference measurements. It should be noted that this tolerance applies to the SoH determination at the cell level and not to the SoH of the entire battery. This is because the state of charge of individual cells may vary, which can negatively affect the current SoH of the battery. However, this can be compensated by the Battery Management System (BMS) or during a calibration. The result reflects the condition of the battery at the time of the test. No conclusions can be drawn about the future state of health of the battery from this. Statements about mechanical damage or external influences are not part of this diagnosis.