

# INDEPENDENT BATTERY CERTIFICATE



CERTIFICATE NUMBER: AA19BAB3-7C51-4542-A575-9CF956DBC4F3

## VEHICLE

BRAND: Tesla  
MODEL: Model S

MILEAGE: 81,515 km  
VIN: 5YJSA7E28LF347199  
DATE AND TIME:  
07.08.2025, 12:24:37

EXECUTED BY: Carla AB

## RESULTS

### STATE OF HEALTH (SOH)

# 90.6 %

#### ENERGY

91kWh | 100kWh



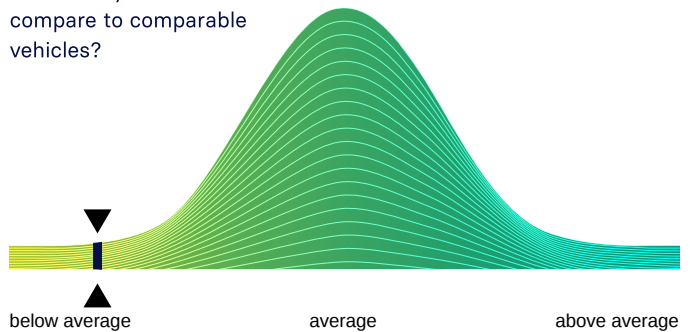
#### WLTP RANGE

591km | 652km

## 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

### FAIR 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 fair condition.

The drive battery is therefore officially AVILOO Certified.

*Marcus Berger*

Dr. Marcus Berger, CEO



## ENERGY

	Gross	Net (Nominal)	Usable
Current:	95.2kWh	90.6kWh	86.1kWh
New:	105.0kWh	100.0kWh	95.0kWh

## RANGE

	WLTP	Typical	Individual
Current:	579-591km	442km	360km
New:	639-652km	488km	397km

## EXECUTION PROTOCOL

AVILOO Box connected. 12:24:33

FLASH Test started.	✓
Starting data acquisition.	✓
Vehicle detected.	✓
Finished data acquisition.	✓
Analyzing data.	✓
Analysis completed.	✓

## SENSORS

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

## BMS

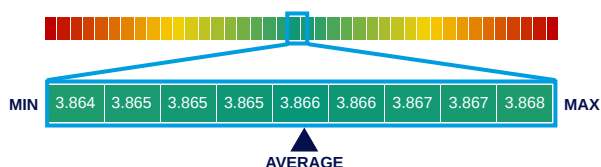
	Value	Status
BMS State of Charge (SoC)*:	61%	
SoC calculation accuracy:		✓
BMS State of Health (SoH)*:	88%	
SoH calculation accuracy:		✓

## MEASUREMENTS

	Min	Max	Delta	Status
Battery Temperature	19.3°C	20.7°C	1.5°C	✓
Cell Voltage	3.864V	3.868V	4mV	✓
Pack Voltage	371.1V			
Average Current	-2.0A			

## 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	3.868	3.867	3.867	3.867	3.867	3.867	3.867	3.867	3.866	3.867	3.867	3.867	3.868	3.868	3.867	3.867	3.867	3.867	3.866	3.865
21 - 40	3.866	3.866	3.866	3.865	3.867	3.866	3.866	3.866	3.866	3.866	3.865	3.865	3.866	3.865	3.866	3.866	3.866	3.866	3.866	3.866
41 - 60	3.866	3.866	3.866	3.866	3.866	3.867	3.866	3.866	3.866	3.865	3.864	3.865	3.864	3.866	3.867	3.867	3.868	3.868	3.866	3.867
61 - 80	3.867	3.867	3.867	3.867	3.867	3.867	3.867	3.866	3.867	3.867	3.867	3.867	3.866	3.866	3.866	3.866	3.866	3.866	3.866	3.866
81 - 96	3.866	3.866	3.866	3.867	3.867	3.866	3.866	3.866	3.866	3.866	3.867	3.867	3.867	3.867	3.867	3.866	/	/	/	/



## MESSAGES

It is not possible to determine the exact battery type with 100% certainty based on the data received from the car. Please check that the identified vehicle type matches the vehicles registration documents. If not, please contact AVILOO Customer Management and provide them with the registration documents.

\*The values shown here were not calculated by AVILOO but correspond to the values read out from the battery management system (BMS) and were calculated by the manufacturer. AVILOO therefore assumes no liability for their accuracy.

**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.