

# Bosch Usage Certificate

Usage Certificate To Go

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Company in charge Bosch Robert Bosch GmbH, Robert-Bosch-Strasse 2, 71701 Schwieberdingen, Germany



Digital Usage Certificate

#### Vehicle information

Manufacturer | Model | Year Vehicle mileage VIN

OEM1 | EV1 | 2024 36,715 km XXXXXXXXXX\*\*\*\*

#### Summary

Battery State of Health (SOH)

based on gross capacity

**97.0** %

## **Battery Insights** - Capacity and Energy comparison

#### **Gross Energy (kWh)**

Initial	60.0 kWh
Actual	58.2 kWh
Gross Capacity (Ah)	
Initial	176.5 Ah
Actual	171.1 Ah

### **Testing conditions:**

	Start:	End:		
State of charge (SOC):	32.3 %	<b>53.9</b> %	Max charging power:	69.5 kW
Measurement time (UTC):	08:16	10:28	Total energy charged:	13.6 kWh
Pack voltage:	360.9 V	369.5 V		
Battery temperature:	31.2 °C	44.2 °C		

Legal disclaimer:

<sup>\*</sup>This certificate is not verified by an independent authority



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### **Parameter Terminology**

#### **Document information:**

Certificate date and time	Date and time when the document has been created.
QR code	Link to document validation page <a href="https://check.bosch-usagecertificatetogo.com">https://check.bosch-usagecertificatetogo.com</a> with possibility to confirm if the document has been created by the Bosch Usage Certificate to Go service. Name and address of the company responsible for creating the document. For more information about the document or its content, contact this company.
Company in charge	Name and address of the company responsible for creating the document. For more information about the document or its content, contact this company.

#### Vehicle parameters:

All parameters are provided by the person in charge of the document's creation.

Manufacturer	Manufacturer of the vehicle.
Model	Name of the vehicle model as designated by its manufacturer.
Year	Year of first registration as stated in its registration documents.
Vehicle mileage	Actual mileage at the time of measurement. This value is not verified for accuracy or fraud and Bosch cannot be held accountable for the value.
VIN	Vehicle identification number – unique for each vehicle.

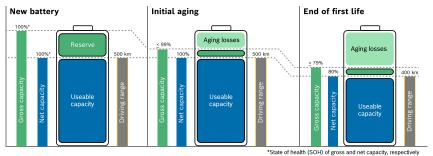
#### Battery and vehicle usage parameters:

Battery State of Health (SOH) - Gross Capacity

The ratio of the current nominal (gross) battery capacity and its original capacity. This value shows how much of the original capacity is still available. It is based on a fixed voltage window that is not changed during the lifecycle of the battery.

Comparison of gross and net SOH Values

The two SOH are based on different reference values and should not be compared. Net capacity is usually higher than the gross SOH. While gross capacity uses fixed voltage limits and shows the actual state of the battery, the net capacity is adjusted over time and shows the currently usable capacity. As a result, net capacity may not or only slowly change if the strategy of the manufacturer is to provide a stable driving range, and only the gross capacity shows the degradation and potential differences in SOH values in a group of vehicles.



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<sup>\*</sup>The result of the Bosch Usage Certificate indicates the current health status of the high voltage battery at the time of the measurement. There is no information about the future state of health or the life of the battery. In addition, the result does not contain any information about the mechanical condition, possible damage, leakage, or electrical safety of the traction battery.



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## Parameter Terminology

Initial gross capacity	The total capacity of a new battery pack; measured in ampere-hours (Ah).
Actual gross capacity	The total capacity of the battery pack, including still available capacity reserves; measured in ampere-hours (Ah). This value is estimated in a measurement session.
Initial gross energy	Gross energy in kWh (kilowatt-hours) at begin of life <sup>1</sup> .
Actual gross energy	Actual gross energy in the battery pack, including still available energy reserves; measured in kilowatt-hours (kWh). This value is estimated in a measurement session.
Testing conditions	Testing conditions may affect the result of the measurement sessions. Therefore, key information about voltage, temperature and charger are provided on the certificate. Bosch monitors the conditions to ensure the accuracy of the battery State of Health and consistency of results.

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