

Title (en)
METHOD FOR DETERMINING A STATE VALUE OF A TRACTION BATTERY

Title (de)
VERFAHREN ZUR BESTIMMUNG EINES ZUSTANDSWERTES EINER TRAKTIONSBATTERIE

Title (fr)
PROCÉDÉ POUR DÉTERMINER UNE VALEUR D'ÉTAT D'UNE BATTERIE DE TRACTION

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Abstract (en)
[origin: WO2021099102A1] The invention relates to a method for determining a state value of a traction battery of an electric vehicle, said value characterizing the aging state of the traction battery, preferably an SoH value of the traction battery. The traction battery is charged or discharged by means of a test load, and a respective value pair of an output voltage and a load current of the traction battery is detected at at least one point in time. An ohmic inner resistance of the traction battery is ascertained on the basis of the detected value pair of the output voltage and the load current, and the state value of the traction battery is ascertained on the basis of the ascertained ohmic inner resistance. At least one normalization variable which characterizes the traction battery is ascertained, and a normalized inner resistance, with respect to a reference value of the normalization variable, is ascertained on the basis of the ascertained ohmic inner resistance and the at least one normalization variable, wherein the state value of the traction battery is ascertained on the basis of the normalized inner resistance. The invention additionally relates to a diagnosis device for determining a state value of a traction battery of an electric vehicle, said diagnosis device having an analysis unit which can be coupled directly or indirectly to the traction battery and which is designed to carry out the method.

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