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CCS T40



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 36980.1-2025

Replacing GB/T 36980-2018

**Energy consumption limits for electric vehicles - Part 1:
Passenger cars**

电动汽车能量消耗量限值 第1部分：乘用车

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1 Scope

GB 36980.1-2025 is the Chinese national standard on energy consumption limits for electric vehicles - part 1: passenger cars, in the field of road vehicles engineering. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 30 May 2025 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 January 2026. Classification: ICS 43.020, CCS T40. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document specifies the application and determination of type approval for battery electric passenger vehicles, energy consumption limits, production conformity and determination of same type. This document applies to category M1 battery electric vehicles with a maximum gross design mass not exceeding 3500 kg.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest

edition of the referenced document (including any amendments) applies.

GB/T 3730.1-2022 Terms and definitions of motor vehicles, trailers and combination vehicles - Part

3 Terms and definitions

For the purpose of this document, the terms and definitions defined in GB/T 15089 and GB/T 19596 apply.

4 General requirements

4.1 It shall determine the energy consumption of a vehicle type in accordance with GB/T 18386.1-2021. When comparing the energy consumption of a vehicle type with the limit, the unit shall be converted from W · h/km to kW · h/100 km, retaining the same significant figures.

4.2 The energy consumption of a vehicle type shall meet the corresponding limit specified in this document.

5 Application and determination of type approval

5.1 General Type approval of a vehicle shall be applied for and determined in accordance with

5.2.1 For a vehicle type or family meeting the requirements of

8.1 in GB/T 18386.1- 2021, the application for type approval of energy consumption shall be submitted by the manufacturer or its legal representative.

5.2.2 The application must be accompanied by the Energy Consumption Type Approval Application Report specified in Annex A, but do not fill in the content of A.7.2 ~ A.7.4 and A.8.

5.2.3 A prototype vehicle representing the approved vehicle type or family must be submitted to the inspection agency responsible for the type approval test.

5.3 Determination and recording of type approval values

5.3.1 The inspection agency responsible for the type approval test shall determine the vehicle's energy consumption type approval values in accordance with GB/T 18386.1-2021.

5.3.2 Compare the energy consumption type approval values determined in

5.3.1 with the corresponding energy consumption limits determined in accordance with

Clause 6, and record the type approval values and comparison results in the Energy Consumption Type Approval Report specified in Annex A.

7 Production conformity

The production conformity of vehicles shall meet the requirements of Clause 9 in GB/T 18386.1-2021.

8 Determination of same type

If the following requirements are met simultaneously, they are deemed to be of the same type.

- a) the battery cell/supercapacitor's model and manufacturer are the same;
- b) the battery pack/supercapacitor assembly's nominal voltage and nominal capacity are the same;
- c) the battery pack/supercapacitor's model and manufacturer are the same;
- d) the drive motor's model, manufacturer, location and quantity are the same;
- e) the control system (including the vehicle controller, onboard energy management system and motor controller) hardware model, software version number and manufacturer are the same, but software version changes are permitted as long as they do not increase the vehicle's energy consumption;
- f) the drive type is the same;
- g) the drive motor and energy storage system cooling type are the same (water cooling, oil cooling, air cooling, etc.);
- h) the curb weight is the same or reduced, and the energy consumption type approval value of the base vehicle type meets the corresponding limit requirements for the vehicle type deemed to be the same;
- i) the transmission type and number of gears are the same, with the gear ratio of each gear being the same or varying by no more than 8 %;
- j) the tire static load radius varies by no more than 5 %;
- k) the front body shape is the same, and the frontal area is the same or reduced.