

中华人民共和国国家标准 NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 38775.8-2023

Electric Vehicle Wireless Power Transfer —Part 8: Specific Requirements of Commercial Vehicle 电动汽车无线充电系统 第8部分: 商用车应用特殊要求

(English Translation)

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Electric Vehicle Wireless Power Transfer —Part 8: Specific Requirements of Commercial Vehicle

1 SCOPE

This document specifies the specific requirements for electric vehicle wireless power transfer system used for commercial vehicles.

This document is applicable to the stationary magnetic field wireless power transfer (MF-WPT) systems for electric commercial vehicles with a power class exceeding 22 kW, for which the power supply has a maximum rated voltage of 1,500V (DC) and of which the maximum rated output voltage is 1,500V (DC), while for other rated output voltages this document may be used as a reference.

2 NORMATIVE REFERENCES

The following normative documents contain provisions which, through normative reference in this text, constitute essential provision of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendment) applies.

GB/T 19596	Terminology of electric vehicles
GB/T 38775.1-2020	Electric vehicle wireless power transfer—Part 1: General requirements
GB/T 38775.3-2020	Electric vehicle wireless power transfer—Part 3: Specific requirements
GB/T 38775.4-2020	Electric vehicle wireless power transfer—Part 4: Limits and test methods of electromagnetic environment
GB/T 38775.5-2021	Electric vehicle wireless power transfer—Part 5: Electromagnetic compatibility requirements and test methods
GB/T 38775.6-2021	Electric vehicle wireless power transfer—Part 6: Interoperability

3 TERMS AND DEFINITIONS

For the purpose of this document, the terms and definitions given in GB/T 19596, GB/T 38775.1-2020 and GB/T 38775.3-2020, as well as the following apply.

3.1 commercial vehicle

A motor vehicle, on account of its design and technical characteristics, intended for transporting persons and goods

Note: The commercial vehicle can tow a trailer. Passenger cars are excluded.

requirements and testing-Ground side

[Source: GB/T 3730.1-2001, 2.2.2, modified]

3.2 ground clearance

The minimum vertical distance between the ground surface and the lower surface of the on-board supply device

3.3 system efficiency

The ratio of the on-board supply device power output to the off-board supply device power output

3.4 alignment tolerance area

The area in which the MF-WPT system can fulfill the interoperability requirements in X-axis and Y-axis directions to perform the wireless power transfer when the secondary device ground clearance is determined

[Source: GB/T 38775.6-2021, 3.10]



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