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Safety Technical Specification for Electric Bicycle
电动自行车安全技术规范

(English Translation)

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Safety Technical Specification for Electric Bicycle

1 SCOPE

This document specifies the technical requirements for complete vehicle markings, complete vehicle safety, mechanical safety, electrical safety, fire resistance & flame retardance, proportion of plastics, BeiDou navigation positioning function, communication and dynamic security monitoring, anti-tampering, operating instructions, enterprise's quality assurance capacity and product conformity of electric bicycles, and describes their corresponding test methods.

This document applies to electric bicycles.

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 755-2019	Rotating Electrical Machines - Rating and Performance
GB 811	Helmets for motorcycle and electric bicycle users
GB/T 3565.1-2022	Safety requirements for bicycles—Part 1: Terms and definitions
GB 3565.2-2022	Safety requirements for bicycles —Part 2: Requirements for city and trekking, young adult, mountain and racing bicycles
GB/T 3565.4-2022	Safety requirements for bicycles—Part 4: Braking test methods
GB/T 4208-2017	Degrees of protection provided by enclosure (IP code)
GB/T 5169.16	Fire hazard testing for electric and electronic products - Part 16: Test flames - 50 W horizontal and vertical flame test methods
GB 5296.1	Fire hazard testing for electric and electronic products - Part 1: Terminology concerning fire tests
GB/T 5454	Textiles--Burning behavior--Oxygen index method
GB/T 5455	Textiles—Burning behavior—Determination of damaged Length, afterglow time and afterflame time of vertically oriented specimens
GB/T 12742	The specifications of testing equipment and measuring appliance for bicycle
GB/T 18284	QR code
GB/T 18380.12	Tests on electric and optical fiber cables under fire conditions—Part 12: Test for vertical flame propagation for a single insulated wire or cable—Procedure for 1 kW pre-mixed flame
GB/T 18380.22	Tests on electric and optical fiber cables under fire conditions - Part 22: Test for vertical flame propagation for a single small insulated wire or cable - Procedure for diffusion flame
GB/T 31887.1-2019	Cycles—Lighting and retro-reflective devices—Part 1: Lighting and light signaling devices
GB/T 31887.2	Cycles—Lighting and retro-reflective devices—Part 2: Retro-Reflective devices
GB 38262-2019	Flammability of interior materials for buses
GB/T 40302	Plastics—Determination of burning behavior of thin flexible vertical specimens in contact with a small-flame ignition source
GB 42295-2022	Safety requirements for electric bicycles electrical

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