

January-February  
2025



# MONTHLY BRIEFING OF CHINESE AUTOMOTIVE STANDARDIZATION

China Automotive Standardization  
Research Institute (CASRI)

China Automotive Technology and  
Research Center Co., Ltd. (CATARC)



# **I. Important international event**

## **The success of the Electric Vehicle Standardization Capability Building Seminar built a brilliant bridge connecting China and ASEAN countries in the area of automotive standardization**

Funded by ASEAN-China Cooperation Fund (ACCF) and co-organized by two major CATARC departments as CASRI (China Automotive Standardization Research Institute) and CATARC Automotive Test Center (Guangzhou), the Electric Vehicle Standardization Capability Building Seminar was held in Guangzhou, China during March 3-7, 2025.

Over 40 participants from various ASEAN countries attended the seminar and learned the diversified and practical training lectures offered by the expert-level lecturers from CATARC and relevant OEMs or suppliers featuring rich experience in the field of EV related technical standardization. Spanning five days, the seminar provided a valuable platform for participants to exchange knowledge, learn the regulatory frameworks and strengthen understanding of the EV standardization status in China. Key topics of the lectures included national EV policies, standardization frameworks, safety regulations, and emerging technologies such as battery recycling and AI applications in the automotive sector. Guided by leading automotive industry experts and standardization specialists, ASEAN representatives gained practical insights and technical expertise essential for developing and harmonizing EV standards in their respective countries.

As part of the seminar, four field visits were organized to provide participants with a comprehensive understanding of China's automotive testing and standardization ecosystem. All the participants visited CATARC Automotive Test Center (Guangzhou) and the GAC AION plant, both of which boasted the cutting-edge testing facilities, advanced methodologies and regulatory compliance procedures essential for electric vehicle development. The light-duty and heavy-duty emission testing, component crash testing, new energy vehicle testing, full vehicle proving ground, crash testing, and electromagnetic compatibility (EMC) laboratories and EV charging testing equipment in CATARC Automotive Test Center (Guangzhou) as well as the vehicle model exhibition hall and assembly lines in GAC AION company left a deep impression upon the participants.

Beyond technical training, the seminar also fostered dynamic exchanges where all participants—trainees and experts alike—actively engaged in discussions, sharing perspectives on challenges and opportunities in EV standardization fields. The inclusion of industrial representatives, policymakers, and standards officials enriched the dialogue, facilitating a deeper understanding of regional needs. Through offline technical training and face-to-face communication, the seminar has advanced EV standardization connectivity and strengthened ASEAN-China partnership in the automotive industry.





Opening ceremony



Participants from ASEAN countries





Trainees receiving their training certificates

## II. Recent policies

### 01 The National Development and Reform Commission issued the “Guidelines for Building a Unified National Market (for trial implementation)”

On January 7, 2025, NDRC (National Development and Reform Commission) issued the “Guidelines on the Construction of a Unified Market (for trial implementation)” (hereinafter referred to as the “Guidelines”), which put forward direction, framework guidance and phased work requirements for the construction of a unified market.

The “Guidelines” focus on the market environment, respectively from the software environment and the hardware environment, focusing on the basic system of the national unified market construction and the standards and regulations of market facilities connectivity. On one hand, China will focus on the basic market economy systems such as property rights

protection, market access, fair competition, and social credit, the “Guidelines” give priority to urgent needs, highlight key points, and sort out matters that all regions and departments can take the initiative to strengthen the basic guarantee for the effective operation of the market economy. On the other hand, China will put forward phased requirements for the development and use of distribution networks, information exchange channels, and trading platforms, and used high-standard connected market facilities to help build a large and unified national market.

The “Guidelines” call for promoting high-standard connectivity of market facilities. China will improve integrated circulation rules and standards, and accelerate the renewal of multimodal transport services. All regions shall not formulate and implement local standards that are inconsistent with the unified national standards for determining the over-limit and overload of trucks.

The “Guidelines” clearly point out that China shall promote a high level of market unification for goods and services and improve standards and measurement systems. Relevant departments should establish and improve a coordinated and unified system of mandatory national standards, and improve the standard systems in areas such as modern circulation, big data, artificial intelligence, autonomous driving and blockchain.

## **02 The Ministry of Ecology and Environment and five other authorities issued “Guidelines on Formulating the Standards for Calculating Product Carbon Footprint”**

On January 2, 2025, the Ministry of Ecology and Environment, NDRC, the State Administration for Market Regulation, the Ministry of Transport and the National Data Administration jointly issued the “Guidelines on Formulating the Standards for Calculating Product Carbon Footprint” (hereinafter referred to as the “Guidelines”) to speed up the establishment of a unified and standardized product carbon footprint calculation standard system, actively promote the linking of group standards, industrial standards and national standards with each other and urge them to be effective in the same direction.

The “Guidelines” clearly encourage all parties to actively participate in the formulation and revision of product carbon footprint calculation standards, ensure that China will have developed 100 product carbon footprint calculation standards by 2027 and 200 product carbon footprint calculation standards by 2030, and promote the mutual recognition of domestic and international standards.

The “Guidelines” set out 20 key tasks in four areas. First, China shall clarify the roadmap and technical requirements of formulating carbon footprint calculation standard with the content including defining the roadmap of formulating carbon

footprint calculation standards, unifying the standard text, calculation boundaries, activity data acquisition and factor data quality requirements of carbon footprint calculation and strengthening the quality management of control of carbon footprint calculation data. Second, China shall coordinate all kinds of carbon footprint calculation standards to work together including the key measures as steadily advancing the formulation of national carbon footprint standards, clarifying priorities for the formulation of carbon footprint industrial standards, regulating local carbon footprint standards, exploring the formulation of carbon footprint group standards in emerging areas, encouraging enterprises to develop carbon footprint enterprise standards, and regularly carrying out post-assessment of carbon footprint calculation standards. Third, China shall promote the orderly linking and implementation of carbon footprint calculation standards with key points as improving the harmonization mechanism of carbon footprint calculation standards, strengthening the cross-departmental coordination of carbon footprint industrial standards, improving the carbon footprint group standard adoption and recognition mechanism, promoting the effective application of carbon footprint calculation standards, and strengthening the publicity and training of carbon footprint calculation standards. Fourth, China shall strengthen international exchanges and connectivity of carbon footprint calculation standards through key measures as strengthening the harmonization and connectivity of carbon footprint standards at home and abroad, actively participating in the formulation of international carbon footprint standards, and promoting international exchanges and cooperation on carbon footprint standards.

## **03 NDRC and the Ministry of Finance issued the “Notice on the Implementation of Large-scale Equipment Renewal and Consumer Goods Trade-in Policy in 2025”**

On January 8, 2025, NDRC and the Ministry of Finance jointly issued the “Notice on the Implementation of Large-scale Equipment Renewal and Consumer Goods Trade-in Policy in 2025” (hereinafter referred to as the “Notice”).

The “Notice” points that China will strongly promote the equipment renewal and increase support for equipment renewal projects in key areas. The support area will further expand to electronic and IT, production safety, facility agriculture and other fields, focusing on supporting high-end, intelligent and green equipment applications. China will raise subsidies for the renewal of new energy city buses and power batteries, expand subsidies for the trad-in of consumer goods, offer stronger support for vehicle scrapping and renewal and improve the standards of subsidies for vehicle replacement and renewal.

The “Notice” requires that the leading role of standards be fully brought into play and the formulation and revision of standards be accelerated. China will raise mandatory technology, energy consumption, and emissions requirements for key



industries and important equipment to advanced international standards, and upgrade quality and safety standards for major consumer durables such as automobiles, household appliances, and home furnishing. China will strengthen the supply of standards for the recycling of resources, and formulate standards for the recycling, dismantling and recycling of ELVs, discarded electrical and electronic products, retired new energy equipment, and end-of-life power batteries in key areas. By the end of 2025, China will complete on schedule the formulation and revision of all 294 key national standards specified in the action plan for raising standards in the “Two New” fields and enhance the oversight of standards implementation. Through focusing on the implementation of important standards, the system of random inspections for quality supervision will be improved. China will study and incorporate the implementation of key national standards in the “Two New” areas into the central quality supervision and assessment, strictly enforcing mandatory standards on energy consumption and pollutant discharge and elevate the binding force of those standards.

## **04 The Department of Standards and Technology of SAMR (State Administration of Market Regulation) issued the “Notice on Accelerating the Conversion of International Standards”**

On January 3, 2025, the Department of Standards and Technology of SAMR issued the “Notice on Accelerating the Conversion of International Standards” (hereinafter referred to as the “Notice”) to further improve the conversion rate of international standards and enhance the consistency of key technical indicators between national standards and international standards.

The “Notice” requires that research be accelerated to determine the conclusion of the conversion of international standards. The international standards tracking and conversion platform will update the latest information of international standards every week, and the relevant departments and technical committees shall, according to the corresponding relationship between international and domestic technical committees, consider China’s national conditions and actual needs of the industry, timely research and put forward the conclusions of the international standard conversion in the field. In principle, the evaluation of the conversion conclusions should be completed within 60 days after the international standard is released while the conversion of international standards should be strengthened. For the international standards whose conversion conclusion is “to be converted” in this field, in accordance with the requirement that no less than 50% of the projects will be established by 2025, the relevant technical committees are requested to clarify the conversion time schedule of each project, fill in the conversion work plan, and strive to complete the project of the proposed conversion standards within two years.

The “Notice” clearly points out that from 2026, for the technical committees that fail to promote the conversion of international standards on schedule and the conversion rate is less than 85%, those committees’ project of establishing other standards will be suspended. The technical committee with poor international standard conversion will be urged by interviewing the director and the secretary general, and organization undertakes the secretariat will be changed according to the prescribed procedures when necessary.

## **05 Notice from the General Office of the State Council on forwarding the “2025 Action Plan for Stabilizing Foreign Investment” by the Ministry of Commerce and the NDRC**

On February 19, 2025, the General Office of the State Council forwarded the “2025 Action Plan for Stabilizing Foreign Investment” jointly issued by the Ministry of Commerce and the NDRC (hereinafter referred to as the “Action Plan”).

The “Action Plan” states that foreign investment is an important component of high-level opening-up, playing a crucial role in developing new forms of productive capacity and achieving modernization with Chinese characteristics.

The “Action Plan” clearly outlines the implementation of a strategic upgrade for free trade areas. It supports free trade areas in intensifying pressure tests in the field of foreign investment access, continuously expanding institutional openness in terms of rules, regulations, management, and standards. A standard system for government procurement of domestic products will be established. Relevant documents will be quickly formulated and released to clarify the standards for government procurement of domestic products, ensuring that products produced within China by enterprises of different ownership types can equally participate in government procurement activities.

## **06 Notice from MIIT and SAMR on further strengthening the management of product access, Recall, and software OTA Upgrades for ICVs (Intelligent and Connected Vehicles)**

On February 28, 2025, MIIT and SAMR jointly issued a notice titled “Further Strengthening the Management of Product Access, Recall, and Software OTA Upgrades for ICVs” (hereinafter referred to as the “Notice”) to further improve the management of product access and recalls for ICVs equipped with combined driving assistance systems and software OTA



(Over-The-Air) upgrade (referred to as OTA upgrade) functions, and to standardize the OEMs’ OTA upgrade activities.

The “Notice” clarifies that it aims to strengthen the management of product access and recalls for ICVs. It details the requirements for product access and recall management. For inspection and testing items without corresponding national standards, companies are allowed to provide self-inspection reports based on their product technical specifications and commit to the authenticity and validity of the test results. MIIT will enhance technical reviews for product access and strengthen supervision of production consistency; SAMR will enhance risk assessment of product safety, strengthen product recall management, and promote the ICV product safe application. Companies should submit relevant technical parameters and verification materials to MIIT and SAMR by June 1, 2025. Based on technological development and management needs, MIIT and SAMR will accelerate the formulation and revision of related standards and modify relevant technical parameters accordingly.

The “Notice” also emphasizes deepening sandbox regulation for products. SAMR will deepen the automotive safety sandbox regulation, organize recall technology institutions to supervise and guide enterprises to conduct in-depth testing, identify safety issues, improve technical standards, and enhance technical analysis and judgment so as to continuously lift the safety performance of combined driving assistance systems. A mechanism for reporting and analyzing events and accidents will be established. MIIT will strengthen the analysis and judgment of event and accident reports, promptly optimizing access requirements and technical standards. Certification services and management will be strengthened. According to the formulation and revision of ICV standards, relevant mandatory national standards will be timely included in the automotive product mandatory certification.

The “Notice” points out that the supervision and management of OTA upgrade activities should be strengthened. When enterprises implement OTA upgrades, they must file with MIIT and SAMR as required and ensure that the upgraded vehicles comply with national laws, regulations, technical standards, and technical specifications.

### III. Standardization updates in January and February

#### 01 Automotive standard plans assigned in January and February (national)

Serial No.	Name of the standard	Type	Formulating or revising	Date of assigning the plan
1	Technical specifications for refrigerant recycling and reutilization of scrapped vehicles	Recommendatory	Formulating	2025/1/27
2	Exterior ambient lamps for motor vehicles and their trailers	Recommendatory	Formulating	2025/1/27

Serial No.	Name of the standard	Type	Formulating or revising	Date of assigning the plan
3	Gasoline engines — High pressure liquid fuel supply connections — Part 2: Pipe assemblies	Recommendatory	Formulating	2025/2/28
4	Dimensions of operating positions for truck drivers	Recommendatory	Revising	2025/2/28
5	Specifications of on-board energy consumption monitoring for passenger cars	Recommendatory	Formulating	2025/2/28
6	Off-cycle technology/device energy saving effects evaluation methods for passenger cars — Part 3: Automotive air conditioner	Recommendatory	Revising	2025/2/28

## 02

### Automotive standards soliciting public opinions in January and February

Serial No.	Name of the project	Type	Starting time of soliciting public opinions	Ending time of soliciting public opinions
1	Intelligent and connected vehicle Technical requirements and test methods of in-vehicle operation system	National	2025/1/7	2025/3/8
2	Intelligent and connected vehicle — Vehicle-control operating system technical requirements and test method	National	2025/1/7	2025/3/8
3	Commercial vehicle AMT clutch disengaging actuator technical conditions and bench test methods	Industrial	2025/1/14	2025/2/24
4	Technical requirements and bench test method of torsion bar spring for automobile suspension	Industrial	2025/1/14	2025/2/24
5	Technical specification for reduction gearbox of battery electric vehicles	Industrial	2025/1/10	2025/2/20
6	Specifications of range extender for electric vehicles	Industrial	2025/1/10	2025/2/20
9	Technical requirements for matching of towing vehicle and trailer	Industrial	2025/1/14	2025/2/24
10	Specification and test methods on drive motor controller for electric vehicles	Industrial	2025/1/20	2025/3/2
11	Passenger car head-up display system performance requirements and test methods	National	2025/1/20	2025/3/21
12	Automotive ignition controller	Industrial	2025/1/22	2025/3/1
13	Road vehicles — Automotive cables — Part 5: Dimensions and requirements for 600 V a.c. or 900 V d.c. and 1 000 V a.c. or 1 500 V d.c. single-core copper conductor cables	National	2024/10/08	2025/02/05
14	Road vehicles — Automotive cables — Part 6: Dimensions and requirements for 600 V a.c. or 900 V d.c. and 1 000 V a.c. or 1 500 V d.c. single-core aluminium conductor cables	National	2024/10/08	2025/02/05
15	Road vehicles — Automotive cables — Part 7: Dimensions and requirements for 30 V a.c. or 60 V d.c. round, sheathed, screened or unscreened multi or single-core copper conductor cables	National	2024/10/12	2025/01/10
16	Road vehicles — Automotive cables — Part 8: Dimensions and requirements for 30 V a.c. or 60 V d.c.	National	2024/10/12	2025/01/10



Serial No.	Name of the project	Type	Starting time of soliciting public opinions	Ending time of soliciting public opinions
	round, sheathed, screened or unscreened multi or single-core aluminium conductor cables			
17	Road vehicles — Automotive cables — Part 9: Dimensions and requirements for 600 V a.c. or 900 V d.c. and 1 000 V a.c. or 1 500 V d.c. round, sheathed, screened or unscreened multi or single-core copper conductor cable	National	2024/10/08	2025/02/05
18	Road vehicles — Automotive cables — Part 10: Dimensions and requirements for 600 V a.c. or 900 V d.c. and 1 000 V a.c. or 1 500 V d.c. round, sheathed, screened or unscreened multi or single-core aluminium conductor cables	National	2024/10/08	2025/02/05
19	Test method for adaptive driving beam system (ADB) for motor vehicle	Industrial	2025/01/14	-
20	Road operation vehicles — Warning lamps	Industrial	2025/02/16	2025/05/17

### 03

## The reviewing of automotive standards in January and February

Serial No.	Name of the project	Type	Sector	Time of review
1	Performance requirements and bench test methods for automobile hydraulic brake caliper assembly	Industrial	Braking	2025/1/14
2	Performance requirements and bench test methods for automobile air brake caliper assembly	National	Braking	2025/1/14
3	Road vehicles — Pneumatic braking system — Part 1: Pipes, male fittings and tapped holes with facial sealing surface	National	Braking	2025/1/14
4	Road vehicles — Pneumatic braking system — Part 2: Pipes, male fittings and tapped holes with conical sealing surface	National	Braking	2025/1/14
5	Leisure accommodation vehicle — Safety symbols and informational signs	National	Special purpose vehicle	2025/1/16
6	Camp vehicle	Industrial	Special purpose vehicle	2025/1/16
7	Mobile kitchen	Industrial	Special purpose vehicle	2025/1/16
8	Mobile shower bath	Industrial	Special purpose vehicle	2025/1/16

### 04

## Automotive standards submitted and awaiting approval in January and February (Industrial)

Serial No.	Name of the standard	Type	Formulating or revising
1	Fuel consumption evaluation methods and targets for passenger cars	Mandatory	Revising

Serial No.	Name of the standard	Type	Formulating or revising
2	Energy consumption limits for electric vehicles — Part 1: Passenger car	Mandatory	Revising
3	Functional safety requirements and testing methods of passenger car steering system	Recommendatory	Formulating
4	Road vehicles — Low-voltage electrical system performance requirements and test methods	Recommendatory	Formulating
5	Road vehicles — Component test methods for electrical/electronic disturbances from narrowband radiated electromagnetic energy — Part 2: Absorber-lined shielded enclosure	Recommendatory	Revising
6	Road vehicles — Component test methods for electrical/electronic disturbances from narrowband radiated electromagnetic energy — Part 4: Harness excitation methods	Recommendatory	Revising
7	Road vehicles — Vehicle test methods for electrical disturbances from narrowband radiated electromagnetic energy — Part 4: Harness excitation methods	Recommendatory	Revising
8	Off-cycle technology/device energy saving effects evaluation methods for passenger cars — Part 5: Generator	Recommendatory	Formulating
9	Disc wheel for trucks — Dimensional characteristics of attachment on hub	Recommendatory	Revising
10	Road vehicles — Light alloy wheels — Impact test procedure	Recommendatory	Revising
11	Wheels and rims for pneumatic tyres — Vocabulary, designation and marking	Recommendatory	Revising
12	Performance requirements and test methods of anti-lock braking system for commercial vehicle and trailer	Recommendatory	Revising
13	Road vehicles — Connectors for the electrical connection of towing and towed vehicles (7-pole) — Part 1: Connectors for braking systems and running gears of vehicles with 24V nominal supply voltage	Recommendatory	Revising
14	Road vehicles — Connectors for the electrical connection of towing and towed vehicles (7-pole) — Part 1: Connectors for braking systems and running gears of vehicles with 12V nominal supply voltage	Recommendatory	Revising
15	Fuel cell electric vehicle facilities for demonstration specifications	Recommendatory	Revising
16	Specifications of the operation and storage for fuel cell electric vehicles	Recommendatory	Revising
17	Technical specifications of remote service and management system for electric vehicles — Part 1: General principle	Recommendatory	Revising



Serial No.	Name of the standard	Type	Formulating or revising
18	Technical specifications of remote service and management system for electric vehicles — Part 2: On-board terminal	Recommendatory	Revising
19	Technical specifications of remote service and management system for electric vehicles — Part 3: Communication protocol and data format	Recommendatory	Revising
20	Technical specifications of remote service and management system for electric vehicles — Part 4: Conformance test	Recommendatory	Formulating
21	Safety requirements of battery swap for electric vehicles — Part 2: Commercial vehicle	Recommendatory	Formulating
22	Test methods of energy consumption and range for fuel cell electric vehicles (Amendment 1)	Amendment	Formulating
23	Test methods for energy consumption and range of electric vehicles — Part 1: Light-duty vehicles (Amendment 1)	Amendment	Formulating

## 05

### Automotive standards published in January and February (National standards)

Serial No.	Standard No.	Name of the standard	Time of publishing	Date of implementation
1	GB/T 10485-2025	Road vehicles — Lighting and light-signalling devices — Environmental endurance	2025/1/24	2025/8/1
2	GB/T 45321-2025	Measuring method for electric and photometric parameters of filament light sources for power-driven vehicles	2025/2/28	2025/9/1
3	GB/T 45314-2025	Road vehicles—Performance requirements and test methods for hands free communication and voice interaction	2025/2/28	2025/2/28
4	GB/T 45312-2025	Intelligent and connected vehicles—Operational design condition for automated driving system	2025/2/28	2025/2/28
5	GB/T 45315-2025	Technical requirements and test methods of vehicular information interactive systems based on LTE-V2X direct communication	2025/2/28	2025/2/28
6	GB/T 34015.5-2025	Recovery of traction battery used in electric vehicle—Echelon use—Part 5: Battery design guide for echelon use	2025/2/28	2025/9/1
7	GB/T 37133-2025	High voltage connection system for electric vehicle	2025/2/28	2025/2/28
8	GB/T 20718.2-2025	Road vehicles—Connectors for the electrical connection of towing and towed vehicles (13-pole) —Part 2: 13-pole connectors for vehicles with 12 V nominal supply voltage intended to cross water fords	2025/2/28	2025/9/1

Serial No.	Standard No.	Name of the standard	Time of publishing	Date of implementation
9	GB/T 31484-2015	Amendment 1 of GB/T 31484-2015 Cycle life requirements and test methods for traction battery of electric vehicle	2025/2/28	--

## IV. Relevant standard information

### The latest catalogue of China EV standards

Item	Standard No.	Standard Name	Standard Type	Scope of Application (EV Type)	Scope of Application (Vehicle Type)	Regulatory Requirement (MIIT)	Regulatory Requirement (CCC)
1	GB 18384-2020	Electric vehicles safety requirements	GB	ALL EV	ALL	Y	Y
2	GB 22757.2-2023	Energy consumption label for light-duty vehicles Part 2: For off-vehicle-chargeable hybrid electric vehicles and battery electric vehicles	GB	BEV, PHEV	M1 ( $\leq 3.5t$ ) , M2 ( $\leq 3.5t$ ) , N1		Y
3	GB 38032-2020	Electric buses safety requirements	GB	BEV, HEV	M2, M3	Y	Y
4	GB/T 18387-2017	Limits and test method of magnetic and electric field strength from electric vehicles	GB/T	ALL EV	ALL	Y	Y
5	GB/T 19596-2017	Terminology of electric vehicles	GB/T	ALL EV	ALL		
6	GB/T 19836-2019	Instrumentation for electric vehicles	GB/T	ALL EV	ALL	Y	Y
7	GB/T 24548-2009	Fuel cell electric vehicles - Terminology	GB/T	FCEV	ALL		
8	GB/T 31466-2015	Voltage ratings of electric vehicles high voltage electricity system	GB/T	BEV, HEV	ALL		
9	GB/T 31498-2021	Post crash safety requirement for electric vehicle	GB/T	BEV, HEV	M1, N1 ( $\leq 2.5t$ )	Y	Y
10	GB/T 32960.1-2016	Technical specifications of remote service and management system for electric vehicles—Part 1: General principle	GB/T	ALL EV	ALL		
11	GB/T 32960.2-2016	Technical specifications of remote service and management system for electric vehicles--Part 2: On-board terminal	GB/T	ALL EV	ALL	Y	



12	GB/T 32960.3-2016	Technical specifications of remote service and management system for electric vehicles—Part 3: Communication protocol and data format	GB/T	ALL EV	ALL	Y	
13	GB/T 37153-2018	Acoustic vehicle alerting system of electric vehicles running at low speed	GB/T	ALL EV	M1, N1		Y
14	GB/T 37340-2019	Conversion methods for energy consumption of electric vehicles	GB/T	BEV, PHEV	ALL		
15	GB/T 38117-2019	Electric vehicles product description—Emergency rescue	GB/T	ALL EV	ALL		
16	GB/T 38283-2019	Guidance for electric vehicles fire fighting and emergency rescue	GB/T	ALL EV	ALL		
17	GB/T 40855-2021	Technical requirements and test methods for cybersecurity of remote service and management system for electric vehicles	GB/T	ALL EV	ALL		
18	GB/T 4094.2-2017	Electric vehicles—Symbols for controls, indicators and tell-tales	GB/T	ALL EV	ALL	Y	Y
19	QC/T 1089-2017	Requirements and test methods for regenerative braking system in electric vehicles	QC/T	BEV	M1		
20	QC/T 837-2010	Types of hybrid electric vehicles	QC/T	HEV	ALL		
21	GB/T 18385-2024	Battery electric vehicles-Power performance-Test method	GB/T	BEV	ALL	Y	
22	GB/T 18386.1-2021	Test methods for energy consumption and range of electric vehicles—Part 1: Light-duty vehicles	GB/T	BEV	M1, M2 (≤3.5t) , N1	Y	Y
23	GB/T 18386.2	Test methods for energy consumption and range of electric vehicles - Part 2: Heavy-duty commercial vehicles	GB/T	BEV	M2 ( > 3.5t) , M3, N2, N3		Y
24	GB/T 18388-2005	Electric vehicles-Engineering approval evaluation program	GB/T	BEV	ALL	Y	
25	GB/T 24552-2009	Electric vehicles - Windshield demisters and defrosters system - Performance requirements and test methods	GB/T	BEV	M1	Y	Y
26	GB/T 28382-2012	Battery electric passenger cars - Specifications	GB/T	BEV	M1	Y	
27	GB/T 34585-2017	Battery electric goods vehicles—Specifications	GB/T	BEV	N1, N2, N3		
28	GB/T 36980-2018	Energy consumption limits for electric vehicles	GB/T	BEV	M1 (≤3.5t)		

29	QC/T 1087-2017	Specifications of city battery electric sanitation vehicles	QC/T	BEV	N1, N2, N3		
30	QC/T 838-2010	Ultracapacitor electric city bus	QC/T	BEV	M2, M3		Y
31	QC/T 925-2013	Ultracapacitor Electric City Bus-Engineering Approval Evaluation Program	QC/T	BEV	M2, M3	Y	
32	GB/T 19750-2005	Hybrid electric vehicles-Engineering approval evaluation program	GB/T	HEV	ALL	Y	
33	GB/T 19752-2024	Hybrid electric vehicles—Power performance—Test method	GB/T	HEV	ALL	Y	
34	GB/T 19753-2021	Test methods for energy consumption of light-duty hybrid electric vehicles	GB/T	HEV	M1, M2 ( $\leq 3.5t$ ), N1	Y	Y
35	GB/T 19754-2021	Test methods for energy consumption of heavy-duty hybrid electric vehicles	GB/T	HEV	M2 ( $> 3.5t$ ), M3, N2, N3	Y	Y
36	GB/T 32694-2021	Plug-in hybrid electric passenger cars—Specifications	GB/T	PHEV	M1	Y	
37	GB/T 34598-2017	Plug-in hybrid electric commercial vehicles—Specifications	GB/T	PHEV	M2, M3, N1, N2, N3		
38	QC/T 894-2011	On Board Measurement Methods for Emissions from Heavy-Duty Hybrid Electric Vehicles	QC/T	HEV	M2 ( $> 3.5t$ ), M3, N2, N3		
39	GB/T 24549-2020	Fuel cell electric vehicles—Safety requirements	GB/T	FCEV	ALL	Y	Y
40	GB/T 26991-2023	Power Performance test methods for fuel cell engines	GB/T	FCEV	ALL	Y	
41	GB/T 29123-2012	Specifications for hydrogen fuel cell vehicles in demonstration	GB/T	FCEV	ALL		
42	GB/T 29124-2012	Hydrogen fuel cell vehicles facilities for demonstration specifications	GB/T	FCEV	ALL		
43	GB/T 35178-2017	Fuel cell electric vehicles—Hydrogen consumption—Test methods	GB/T	FCEV	ALL		
44	GB/T 37154-2018	Fuel cell electric vehicles—Test methods of hydrogen emission	GB/T	FCEV	ALL		
45	GB/T 39132-2020	Fuel cell electric vehicle engineering approval evaluation program	GB/T	FCEV	ALL		
46	GB/T 43252-2023	Test methods of energy consumption and driving range for fuel cell Electric vehicles	GB/T	FCEV	ALL		Y



47	GB/T 43255-2023	Test methods for cold starting performance of fuel cell vehicles under sub-zero conditions	GB/T	FCEV	ALL		
48	GB/T 44131-2024	Post-crash safety requirement for fuel cell electric vehicle	GB/T	FCEV	ALL		Y
49	GB 38031-2020	Electric vehicles traction battery safety requirements	GB	ALL EV	ALL	Y	Y
50	GB/T 18333.2-2015	Zinc-air batteries for electric road vehicle	GB/T	ALL EV	ALL	Y	Y
51	GB/T 31467-2023	Electrical performance test methods for Lithium-ion traction battery pack and system of electric vehicles	GB/T	ALL EV	ALL		
52	GB/T 31484-2015	Cycle life requirements and test methods for traction battery of electric vehicle	GB/T	ALL EV	ALL	Y	Y
53	GB/T 31486-2024	Electrical performance requirements and test methods for traction battery of electric vehicle	GB/T	ALL EV	ALL	Y	Y
54	GB/T 33598-2017	Recycling of traction battery used in electric vehicle—Dismantling specification	GB/T	ALL EV	ALL		
55	GB/T 33598.2-2020	Recycling of traction battery used in electric vehicle—Recycling—Part 2: Materials recycling requirements	GB/T	ALL EV	ALL		
56	GB/T 33598.3-2021	Recovery of traction battery used in electric vehicle—Recycling—Part 3: Specification for discharging	GB/T	ALL EV	ALL		
57	GB/T 34013-2017	Dimension of traction battery for electric vehicles	GB/T	ALL EV	ALL		
58	GB/T 34014-2017	Coding regulation for automotive traction battery	GB/T	ALL EV	ALL		Y
59	GB/T 34015-2017	Recycling of traction battery used in electric vehicle—Test of residual capacity	GB/T	ALL EV	ALL		
60	GB/T 34015.2-2020	Recycling of traction battery used in electric vehicle—Echelon use—Part2: Removing requirements	GB/T	ALL EV	ALL		
61	GB/T 34015.3-2021	Recycling of automotive traction battery—Echelon use—Part 3: Echelon using requirement	GB/T	ALL EV	ALL		

62	GB/T 34015.4-2021	Recycling of traction battery used in electric vehicle—Echelon use—Part 4: Labels for echelon used battery products	GB/T	ALL EV	ALL		
63	GB/T 38661-2020	Technical specifications of battery management system for electric vehicles	GB/T	ALL EV	ALL		
64	GB/T 38698.1-2020	Recycling of traction battery used in electric vehicle—Management specification—Part 1: Packing and transporting	GB/T	ALL EV	ALL		
65	GB/T 38698.2-2023	Recycling of traction battery used in electric vehicle—Management specification (Part2) —— Specifications for construction of recycling service network	GB/T	ALL EV	ALL		
66	GB/T 40433-2021	Technical specifications of combined power source for electric vehicles	GB/T	ALL EV, ICE Vehicles	ALL		
67	GB/T 44132-2024	Recovery of traction battery used in electric vehicle—General requirements	GB/T	ALL EV	ALL		
68	QC/T 1023-2015	General Requirement of Traction Battery System for Electric Vehicles	QC/T	ALL EV	ALL		
69	QC/T 1156-2021	Technical specifications for disassembly of used EV battery cell	QC/T	ALL EV	ALL		
70	QC/T 1206.2-2024	Thermal management system for electric vehicle traction battery Part 2: cooling system	QC/T	ALL EV	ALL		
71	QC/T 741-2014	Ultra-capacitor for Electric Vehicles	QC/T	ALL EV	ALL	Y	Y
72	QC/T 742-2006	Lead-acid batteries for electric road vehicles	QC/T	ALL EV	ALL		Y
73	QC/T 744-2006	Nickel-metal hydride batteries for electric road vehicles	QC/T	ALL EV	ALL		
74	QC/T 989-2014	General Requirement of Traction Battery Enclosure for Electric Vehicles	QC/T	ALL EV	ALL		
75	GB/T 18488-2024	Drive motor system for electric vehicles	GB/T	ALL EV	ALL		Y
76	GB/T 29307-2022	The reliability test methods of drive motor system for electric vehicles	GB/T	ALL EV	ALL		



77	GB/T 36282-2018	Electromagnetic compatibility requirements and test methods of drive motor system for electric vehicles	GB/T	ALL EV	ALL		
78	GB/T 43254-2023	Functional safety requirements and testing methods for drive motor system of electric vehicles	GB/T	HEV	M1, M2 (≤3.5t) , N1		
79	QC/T 1022-2015	Technical specification for reduction gearbox of battery electric passenger cars	QC/T	BEV	M1		
80	QC/T 1068-2017	Asynchronous drive motor system for electric vehicles	QC/T	ALL EV	ALL		
81	QC/T 1069-2017	Permanent magnet synchronous drive motor system for electric vehicles	QC/T	ALL EV	ALL		
82	QC/T 1086-2017	Specifications of range extender for electrical vehicles	QC/T	PHEV	ALL		
83	QC/T 1088-2017	Specifications of charge-discharge motor controller for electric vehicles	QC/T	ALL EV	ALL		
84	QC/T 1132-2020	Measurement method of the noise of electric power train system for electric vehicles	QC/T	ALL EV	ALL		
85	QC/T 893-2011	Failure classification and assessment of electric motor system for electric vehicle	QC/T	ALL EV	ALL		
86	QC/T 896-2011	Interface of electrical motor system for electric vehicle	QC/T	ALL EV	ALL		
87	QC/T 926-2013	The reliability test methods for powertrain unit of light-duty hybrid electric vehicles(ISG type)	QC/T	HEV	M1, M2 (≤3.5t) , N1		
88	GB/T 24554-2022	Performance test methods for fuel cell engines	GB/T	FCEV	ALL	Y	
89	GB/T 26990-2023	Fuel cell electric vehicles Onboard hydrogen system specification	GB/T	FCEV	ALL	Y	Y
90	GB/T 34593-2017	Test methods of hydrogen emission for fuel cell engine	GB/T	FCEV	ALL		
91	GB/Z 44116-2024	Test methods for durability of fuel cell engine and its key components	GB/Z	FCEV	ALL		
92	QC/T 1207-2024	Air compressor for fuel cell system	QC/T	FCEV	ALL		
93	QC/T 1208-2024	Hydrogen blower for fuel cell system	QC/T	FCEV	ALL		

94	GB/T 39086-2020	Functional safety requirements and testing methods for battery management system of electric vehicles	GB/T	ALL EV	ALL		
95	GB/T 24347-2021	DC/DC converter for electric vehicles	GB/T	ALL EV	ALL		
96	GB/T 37133-2025	High voltage connection system for electric vehicle	GB/T	ALL EV	ALL		
97	QC/T 1136-2020	Environmental test requirements and test methods of IGBT Module for electric vehicles	QC/T	ALL EV	ALL		
98	QC/T 1174-2022	Technical requirements for HV fuse of electric vehicle	QC/T	ALL EV	ALL		
99	QC/T 1175-2022	Technical requirements for HV relay of electric vehicles	QC/T	ALL EV	ALL		
100	GB 44263-2024	Safety requirements for electric vehicle conductive charging system	GB	ALL EV	ALL	Y	Y
101	GB/T 18487.3-2001	Electric vehicle conductive charging system--A.C./D.C.electric vehicle charging station	GB/T	others	ALL		
102	GB/T 20234.1-2023	Connection set for conductive charging of electric vehicles-Part 1: General requirements	GB/T	ALL EV	ALL	Y	Y
103	GB/T 20234.2-2015	Connection set for conductive charging of electric vehicles—Part 2: AC charging coupler	GB/T	ALL EV	ALL	Y	Y
104	GB/T 20234.3-2023	Connection set for conductive charging of electric vehicles—Part 3: DC charging coupler	GB/T	ALL EV	ALL	Y	Y
105	GB/T 34657.2-2017	Interoperability test specifications of electric vehicle conductive charging—Part 2: Vehicle	GB/T	ALL EV	ALL		Y
106	GB/T 38775.1-2020	Electric vehicle wireless power transfer—Part 1:General requirements	GB/T	ALL EV	ALL		
107	GB/T 38775.5-2021	Electric vehicle wireless power transfer—Part 5: Electromagnetic compatibility requirements and test methods	GB/T	ALL EV	ALL		
108	GB/T 38775.7-2021	Electric vehicle wireless power transfer—part 7:interoperability requirements and testing—vehicle	GB/T	ALL EV	ALL		

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109	GB/T 40428-2021	Electromagnetic compatibility requirements and test methods of conductive charging for electric vehicles	GB/T	ALL EV	ALL		
110	GB/T 40432-2021	Conductive on-board charger for electric vehicles	GB/T	ALL EV	ALL		
111	GB/T 41578-2022	Technical requirements and test methods for cybersecurity of electric vehicle charging system	GB/T	ALL EV	ALL		
112	GB/T 43332-2023	Safety requirements of conductive charging and discharging for electric vehicles	GB/T	ALL EV	ALL		
113	QC/T 1198-2023	Cable assembly with function box of conductive charging for electric vehicles	QC/T	ALL EV	ALL		
114	QC/T 1199-2023	Integrated AC standard socket-outlet of conductive charging for electric vehicles	QC/T	ALL EV	ALL		
115	QC/T 1200-2023	Cable assembly with charger of conductive charging for electric vehicles	QC/T	ALL EV	ALL		
116	QC/T 839-2010	Power supply system for ultracapacitor electric city bus	QC/T	ALL EV	M2, M3		
117	GB/T 40032-2021	Safety requirements of battery swap for electric vehicles	GB/T	BEV	M1		
118	QC/T 1201.1-2023	Interchangeability of On Board Power Exchange System for electric commercial vehicle	QC/T	ALL EV	ALL		
119	QC/T 1201.2-2023	Compatibility of on-board battery swap system for battery electric commercial vehicles—Part 2: Battery swap cooling interface	QC/T	ALL EV	ALL		
120	QC/T 1201.3-2023	Compatibility of on-board battery swap system for battery electric commercial vehicles—Part 3: Battery swap mechanism	QC/T	BEV	M1		
121	QC/T 1201.4-2023	Compatibility of on-board battery swap system for battery electric commercial vehicles—Part 4: Swappable battery system	QC/T	ALL EV	ALL		
122	QC/T 1201.5-2023	Compatibility of on-board battery swap system for battery electric commercial vehicles—Part 5:	QC/T	ALL EV	ALL		



		Communication between the vehicle and the battery system					
123	QC/T 1204.2-2024	Compatibility of on-board battery swap system for battery electric passenger vehicles—Part 2: Battery swap cooling interface	QC/T	BEV	M1		
124	QC/T 1204.3-2024	Compatibility of on-board battery swap system for battery electric passenger vehicles—Part 3: Battery swap mechanism	QC/T	BEV	M1		
125	QC/T 1204.5-2024	Compatibility of on-board battery swap system for battery electric passenger vehicles—Part 5: Communication between electric vehicle and battery pack	QC/T	BEV	M1		
126	QC/T 1205.4-2024	Common platform of battery swap for battery electric passenger vehicles—Part 4: Communication between battery pack and infrastructure	QC/T	BEV	M1		
127	GB/T 26779-2021	Hydrogen fuel cell electric vehicle refueling receptacle	GB/T	FCEV	ALL	Y	Y
128	GB/T 34425-2023	Fuel cell electric vehicles-Hydrogen refuelling nozzle	GB/T	FCEV	ALL		
129	QC/T 816-2009	Specification of mobile hydrogen refueling vehicles	QC/T	FCEV	N1, N2, N3		
130	QC/T 1206.1-2024	Thermal management system for electric vehicle traction battery Part 1: General requirements	QC/T	ALL EV	ALL		
131	QC/T 1204.4-2024	Compatibility of on-board battery swap system for battery electric passenger vehicles—Part 4: Swappable battery pack	QC/T	BEV	M1		
132	GB/T 18487.5-2024	Electric vehicle conductive charging system—Part 5: DC charging system for GB/T 20234.3	GB/T	ALL EV	ALL	Y	
133	GB/T 27930.2-2024	Digital communication protocols between off-board conductive charger and electric vehicle—Part 2: Communication protocols for GB/T 20234.3	GB/T	ALL EV	ALL	Y	

134	GB/T 34015.5-2025	Recovery of traction battery used in electric vehicle—Echelon use—Part 5: Battery design guide for echelon use	GB/T	ALL EV	ALL		
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# Contact Us

Editor	Li Wen	<a href="mailto:liwen@catarc.ac.cn">liwen@catarc.ac.cn</a>
Contact persons	Lu Chun	<a href="mailto:luchun@catarc.ac.cn">luchun@catarc.ac.cn</a>
	Zhang Honghe	<a href="mailto:zhanghonghe01@catarc.ac.cn">zhanghonghe01@catarc.ac.cn</a>
	Fang Zili	<a href="mailto:fangzili@catarc.ac.cn">fangzili@catarc.ac.cn</a>