Name: DEKRA Testing and Certification (Shanghai) Ltd.

Address: Building 1, No. 1050, Xingxian Road, Jiading District, Shanghai, China

Registration No. CNAS L5776

Accreditation Criteria: ISO/IEC 17025 and relevant requirements of CNAS SESSMENT NFORMIT Expiry Date: 2024-08-18 Effective Date: 2018-08-19 CERTIFICATE

| No | Test Object | 1 | Item/Parameter | Standard av Mathad | | | | |
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| JN⊇ | | N₂ | Item/ Parameter | Standard or Method | Note | | | |
| 未分组 | | | | | 5 | | | |
| | | 1 | Odor | Determination of the odour characteristics of trim maiterials in motor vehicles VDA 270:2016 | | | | |
| | Vehicle interior/enterior materials and parts | | | C | 2 | Organic Emissions- Thermal Desorption Method | Thermal Desorption Analysis of Organic Emissions for the Characterization of Non-Metallic Materials for Automobiles VDA 278:2011 | |
| | | 3 | Fogging Characteristics | Determination of the fogging characteristics of trim materials in the interior of automobiles DIN 75201:2011 | 好い | | | |
| 1 | | 4 | Organic Emissions-1 m3 Test Chamber Method | Determination of Organic Substances as Emitted from Automotive Interior Products Using a 1 m3 Test Chamber VDA 276:2005 | | | | |
| | | 5 | Organic Emissions- Bag Method | Interior air of road vehicles —Part 2:Screening method for the determination of the emissions of volatile organic compounds from vehicle interior parts and materials-Bag method ISO 12219-2: 2012 | 和 | | | |
| | | 6 | Organic Emissions- Small Chamber Method | Interior air of road vehicles —Part 4: Method for the determination of the emissions of volatile organic compounds from vehicle interior parts and materials- Small chamber method ISO 12219-4:2013 | | | | |
| No. CNA | S L5776 | | | 第 1 | 页共41页 | | | |

SCHEDULE 3 ACCREDITED TESTING SCOPE

No. CNAS L5776

| | | | Item/Parameter | | Standard on Mathed | NT / |
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| | N≌ | Test Object | N₂ | Item/ Parameter | Standard or Method | Note |
| | | | 7 | Colorfastness to Crocking | Colorfastness to Crocking: AATCC Crockmeter Method AATCC 8:2016 | |
| | | | 8 | Colour fastness to rubbing | Textiles - Tests for colour fastness - Part X12: Colour fastness to rubbing ISO 105-X12:2016 | |
| | | | CHINA | SCHEDULI | PlasticsDetermination of tensile propertiesPart 1:General principles GB/T 1040.1-2006 | |
| | | | | | Plastics. Determination of tensile properties.Part 1: General principles ISO 527-1: 2012 | |
| | | D | 6 | PlasticsDetermination of tensile propertiesPart 2:Test conditions for moulding and extrusion plastics GB/T 1040.2-2006 | | |
| | | | | | Plastics. Determination of tensile properties —Part 2: Test conditions for moulding and extrusion plastics ISO 527-2:2012 | |
| | | | | | PlasticsDetermination of tensile propertiesPart 3:Test conditions for films and sheets GB/T 1040.3-2006 | |
| | | | 9 | Tensile Properties | Plastics Determination of tensile properties Part 3: Test conditions for films and sheets ISO 527-3-1995 | |
| 9 | | | | | PlasticsDetermination of tensile protpertiesPart 4:Test conditions for isotropic and orthotropic fibre-reinforced plastic composites GB/T 1040.4-2006 | |
| | | | 2 | | PLastics - Determination of Tensile Properties - Part 4: Test Conditions for Isotropic and Orthotropic Fibre-Reinforced Plastic Composites ISO 527-4: 1997 | 家儿 |
| | | | | | PlasticsDetermination of tensile propertiesPart 5:Test conditions for unidirectional fibre-reinforced plastic composites GB/T 1040.5-2008 | |
| | | | | | Plastics — Determination of tensile properties — Part 5: Test conditions for unidirectional fibre-reinforced plastic composites ISO 527-5: 2009 | 田安 |
| \sim | | | 10 | Elevural Properties | PlasticsDetermination of flexural properties GB/T 9341-2008 | 拥章 |
| | | C | 10 | r lexurar r roperues | Plastics. Determination of flexural properties ISO 178:2010/Amd 1:2013 | |





| | 70 | | Item/Parameter | | - Standard or Mathod | NI-4- |
|---|-----|-------------|----------------|--------------------------------|---|--|
| | JN≌ | Test Object | N₂ | Item/ Parameter | Standard or Niethod | Note |
| | | C, r | 11 | Charpy Impact | PlasticsDetermination of charpy impact propertiesPart 1:Non-instrumented impact test GB/T 1043.1-2008 Plastics. Determination of charpy impact properties. Part 1:Non-instrumented impact test ISO 179-1:2010 | 5 |
| C | | | CHINA I 12 | Izod Impact ^{CHEDULI} | Plastics-Determination of Izod impact strength GB/T 1843-2008 Plastics. Determination of Izod impact strength ISO 180:2000/Amd1:2006/Amd2:2013 | |
| | | | 13 | PunctureImpact | Plastics.Determination of punctureimpact behaviour of rigid plastics.Part 2: Instrumented impact testing ISO 6603-2:2000 | |
| | | | 14 | Cyclic Corrosion | Paints and varnishes .Determination of resistance to cyclic corrosion conditions.Part 1:Wet (salt fog)/dry/humidity ISO 11997-1:2017 | Accredited only for AnnexD:C ycle B |
| C | | | | | Plastics Methods of exposure to laboratory light sources Part 2: Xenon- arc lamps ISO 4892-2:2013 Textiles - Tests for colour fastness - Part B06: Colour fastness and ageing to artificial light at high temperatures: Xenon arc fading lamp test ISO 105-B06 | |
| | | | 15 | Xenon-arc lamps exposure | AMD.1-2002 Accelerated Exposure of Automotive Interior Trim Components Using a Controlled Irradiance Xenon Arc Apparatus SAE J2412:2015 | |
| | | | | | Performance Based Standard for Accelerated Exposure of Automotive Exterior Material Using a Controlled Irradiance Xenon-Arc Apparatus SAE J2527:2017 | A L' AN |
| | | | 16 | Density | Plastics - Methods for determining the density of non-cellular plastics - Part 1: Immersion method, liquid pyknometer method and titration method GB/T 1033.1-2008 | Accredited only for:immers ion method |
| | | C | | | Plastics - Methods for determining the density of non-cellular plastics - Part 1: Immersion method, liquid pyknometer method and titration method ISO1183- | Accredited only |





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| 70 | T. (0) . (| l | tem/Parameter | | |
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| JN≙ | Test Object | Nº | Item/ Parameter | Standard or Method | Note |
| | | | | 1:2012 | for:immers ion method |
| | | | NATIONAL ACCRED | PlasticsDetermination of ashPart 1:General methods GB/T 9345.1-2008 | Accredited only for: Method A |
|) | | 17 | SCHEDULI | Plastics — Determination of ash — Part F: General methods ISO 3451- 1:2008 | Accredited only for: Method A |
| | | 18 | Resistance to environmental stress cracking (ESC) | Plastics Determination of resistance to environmental stress cracking (ESC) Part 3: Bent strip method ISO 22088-3:2006 | |
| | | | | Textiles Tests for colour fastness Part A02: Grey scale for assessing change in colour ISO 105-A02:1993 | |
| | | 19 | Grey scale | Textiles - Tests for colour fastness - Part A02: Grey scale for assessing change in colour (ISO 105-A02:1993); German version EN 20105-A02:1994 DIN EN 20105-A02:1994 | S |
| | | 20 | Tests at constant temperature | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 4: Climatic loads ISO 16750-4:2010 5.1 | Accredited only for: Volume≤(1 100x920x9 50)mm; Temperatu re range:(- 40~ 120)°C |
|) | C | 21 | Temperature step test | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 4: Climatic loads ISO 16750-4:2010 5.2 | Accredited only for: Volume≤(1 100x920x9 50)mm; |

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| | | | Item/Parameter | | Standard or Method | N T - 4 - |
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| | JN≙ | Test Object | Nº | Item/ Parameter | Standard or Method | Note |
| | | | | | | Temperatu |
| | | | | | | re range:(- |
| | | | | | applane. | $40 \sim$ |
| | | | CHINA I | NATIONAL ACCRED | ITATION SERVICE FOR CONFORMITY ASSESSMENT | 120)°C |
| | | | | 201155111 | | Accredited |
| | | | | SCHEDUL | E OF ACCREDITATION CERTIFICATE | Only IOF: |
| | | | | | Road vehicles - Environmental conditions and testing for electrical and | Neutral Salt Spray |
| | | | 22 | Salt spray tests | electronic equipment - Part 4: Climatic loads ISO 16750-4:2010 5.5 | test |
| | | | 7 | | electronic equipment 1 art 1. enmane louds 150 10750 1.2010 5.5 | Volume<(2 |
| | | | | | C | 160*980*1 |
| | | | | | | 320)mm |
| | | | | | | Accredited |
| | | | | | | only for: |
| | | | | | | Volume≤(1 |
| | | | | | | 100x920x9 |
| \sim | | | | | | 50)mm; |
| | | | 23 | Humid heat, cyclic | Road vehicles - Environmental conditions and testing for electrical and | Temperatu |
| | | | | test | electronic equipment - Part 4: Climatic loads ISO 16750-4:2010 5.6 | re |
| | | | 7 | | | range. (10) |
| | | | | | | Humidity |
| | | | | | | range: (5~ |
| | | | | | | 1alige.(3 |
| | | | | | | Accredited |
| | | | | | | only for: |
| | | | | Damp heat, steady- | Road vehicles - Environmental conditions and testing for electrical and | Volume<(1 |
| C | | | 24 | state test | electronic equipment - Part 4: Climatic loads ISO 16750-4:2010 5.7 | 100x920x9 |
| | | | | | | 50)mm; |
| | | C | | | | Temperatu |

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| 20 | | Item/Parameter | | | |
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| JN≌ | Test Object | Nº | Item/ Parameter | Standard or Method | Note |
| | Car | CHINA | C | | re range:(10 \sim 90)°C; Humidity |
| | | | NATIONAL ACCRED SCHEDULI | TATION SERVICE FOR CONFORMITY ASSESSMENT OF ACCREDITATION CERTIFICATE | range:(5~ 95)%RH |
| | | 25 | Accelerated ageing | Flexible and rigid cellular polymeric materials - Accelerated ageing tests DIN EN ISO 2440:2015 | Accredited only for: dry ageing |
| | | | tests | Flexible and rigid cellular polymeric materials - Accelerated ageing tests GB/T 9640-2008 | Accredited only for: dry ageing |
| | | 26 | Uniform changes in appearance | Paints and varnishes - Evaluation of degradation of coatings - Designation of quantity and size of defects, and of intensity of uniform changes in appearance - Part 1: General introduction and designation system ISO 4628-1:2016 | S |
| | | 27 | Assessment of degree of blistering | Paints and varnishes - Evaluation of degradation of coatings - Designation of quantity and size of defects, and of intensity of uniform changes in appearance - Part 2: Assessment of degree of blistering ISO 4628-2:2016 | |
| | | 28 | Assessment of degree of rusting | Paints and varnishes - Evaluation of degradation of coatings - Designation of quantity and size of defects, and of intensity of uniform changes in appearance - Part 3: Assessment of degree of rusting ISO 4628-3:2016 | t. |
| | | 29 | Cross-cut test | Paints and varnishes - Cross-cut test ISO 2409:2013 | The last |
| | | | 6 | Road vehicles — Test methods forelectrical disturbances from electrostatic discharge GB/T 19951-2005 | HH H |
| 2 | Automotive Components | 1 | Electrostatic discharge | Electromagnetic Compatibility Measurement Procedure for Vehicle Components — Part 13: Immunity to Electrostatic Discharge SAE J1113- 13:2015 | 胡章 |
| | C | | | Road vehicles — Test methods forelectrical disturbances from electrostatic discharge ISO 10605:2008 | |



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| | | Item/Parameter | | | | |
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| N₂ | Test Object | N₂ | Item/ Parameter | Standard or Method | Note | |
| | C, | | | Vehicles, boats and internal combustion engines – Radio disturbance characteristics – Limits and methods of measurement for the protection of on- board receivers GB/T 18655-2010 6.4 | G | |
| | | CHINA I | | Vehicles, boats and internal combustion engines – Radio disturbance characteristics – Limits and methods of measurement for the protection of on- | | |
| | | 2 | Radiated Emissions | Regulation No. 10 Uniform provisions concerning the approval of vehicles with regard to electromagnetic compatibility ECE R10.05 Annex 7 Annex8 | | |
| | | D | 6 | Electromagnetic compatibility(EMC)— Product family standard for aftermarket electronic equipment in vehicle EN 50498: 2010 7.1 7.2 | | |
| | | | | Limits and Methods of Measurement of Radio Disturbance Characteristics of Components and Modules for the Protection of Receivers Used On Board Vehicles SAE J1113-41:2006 7 | | |
| | | 2 | Conducted Emissions- | Vehicles, boats and internal combustion engines – Radio disturbance characteristics – Limits and methods of measurement for the protection of on-board receivers GB/T 18655-2010 6.2 | | |
| | C | 3 | Voltage Method | Vehicles, boats and internal combustion engines – Radio disturbance characteristics – Limits and methods of measurement for the protection of on-board receivers CISPR 25:2016 6.3 | | |
| | | | Conducted Emissions- | Vehicles, boats and internal combustion engines – Radio disturbance characteristics – Limits and methods of measurement for the protection of on- board receivers GB/T 18655-2010 6.3 | 家山 | |
| | | 4 | Current Method | Vehicles, boats and internal combustion engines – Radio disturbance characteristics – Limits and methods of measurement for the protection of on- board receivers CISPR 25:2016 6.4 | · · · · | |
| | | 5 | Conducted Transient Emissions | Road Vehicles-Electrical disturbances from conduction and coupling- Part 2: Electrical transient conduction along supply lines only GB/T21437.2-2008 4.3 Road Vehicles-Electrical disturbances from conduction and coupling- Part 2: | 制章 | |



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| | | |] | Item/Parameter | | |
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| | N⊵ | Test Object | N₂ | Item/ Parameter | Standard or Method | Note |
| | | | | | Electromagnetic Compatibility - Component Test Procedure - Part 42 - Conducted Transient Emissions SAE J1113-42: 2010 | |
| | | | CHINA | | Regulation No. 10 Uniform provisions concerning the approval of vehicles with regard to electromagnetic compatibility ECE R10.05 Annex 10 | |
| | | | | SCHEDULE | Electromagnetic compatibility(EMC)— Product family standard for aftermarket electronic equipment in vehicle EN 50498: 2010 7.3 | |
| | | | | C | Road Vehicles-Electrical disturbances from conduction and coupling- Part 2: Electrical transient conduction along supply lines only GB/T 21437.2-2008 4.4 | |
| | | | | | Road Vehicles-Electrical disturbances from conduction and coupling- Part 2: Electrical transient conduction along supply lines only ISO 7637.2:2011 4.4 | |
| | | | | | Road Vehicles-Electrical disturbances from conduction and coupling - Part 3: Electrical transmission by capacitive and inductive coupling via lines other than supply lines GB/T 21437.3-2012 | 6 |
| | | | | | Road Vehicles-Electrical disturbances from conduction and coupling - Part 3: Electrical transient transmission by capacitive and inductive coupling via lines other than supply lines ISO 7637.3:2016 | |
| 5 | | C | 6 | Immunity | Road vehicles - Environmental conditions and testing for electrical and electronic equipment Part 2:Electrical loads GB/T28046.2-2011 | |
| | | | P | | Road vehicles - Environmental conditions and testing for electrical and electronic equipment Part 2:Electrical loads ISO16750-2:2012 | 3 |
| | | C | | | Immunity to conducted Transients on Power Leads SAE J1113-11:2012 | AL DE |
| | | | | | Electrical Interference by Conduction and Coupling - Capacitive Coupling via Lines Other than Supply Lines SAE J1113-12:2006 | |
| | | | | | Electromagnetic compatibility(EMC)— Product family standard for aftermarket electronic equipment in vehicle EN 50498:2010 7.4 | 日日日 |
| 6 | | | | | Regulation No. 10 Uniform provisions concerning the approval of vehicles with regard to electromagnetic compatibility ECE R10.05 Annex 10 | AUT+ |



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| | 20 | | Item/Parameter | | Standard or Mathed | N-4- |
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| | N≌ | Test Object | N₂ | Item/ Parameter | Standard or Method | Note |
| | | | | | Limits and Methods of Measurement Procedure of Electromagnetic Radiated Immunity of Components and Modules for On-Board Vehicles GB/T 17619- 1998 | C |
| | | | | Absorber Lined | Road vehicles — Component testmethods for electrical disturbances from narrowband radiated electromagnetic energy — Part 2: Absorber-lined shielded enclosure ISO 11452-2:2004 | |
| | | | / | (ALSE) RF Immunity | Regulation No. 10 Uniform provisions concerning the approval of vehicles with regard to electromagnetic compatibility ECE R10.05 Annex 9 Appendix 3 | |
| | | | | | Electromagnetic Compatibility Measurement Procedure for Vehicle Components - Part 21: Immunity to Electromagnetic Fields, 30MHz to 18GHz, Absorber-Lined Chamber SAE J1113-21:2013 | |
| | | C | | | Limits and Methods of Measurement Procedure of Electromagnetic Radiated Immunity of Components and Modules for On-Board Vehicles GB/T 17619- 1998 | 5 |
| C | | | 8 | TEM Cell RF | Road vehicles — Component testmethods for electrical disturbances from narrowband radiated electromagnetic energy — Part 3: Transverse Electromagnetic (TEM) Cell ISO 11452-3:2016 | |
| | | | | G | Regulation No. 10 Uniform provisions concerning the approval of vehicles with regard to electromagnetic compatibility ECE R10.05 Annex 9 Appendix 2 | |
| | | | | | Immunity to Radiated Electromagnetic Field; 10kHz to 200MHz - Crawford TEM Cell and 10kHz to 5GHz - Wideband TEM Cell SAE J1113-24:2010 | R'il as |
| | | | 0 | Bulk current Injection | Limits and Methods of Measurement Procedure of Electromagnetic Radiated Immunity of Components and Modules for On-Board Vehicles GB/T 17619- 1998 | 族员经 |
| <u> </u> | | | RF Immunity | Road vehicles — Component testmethods for electrical disturbances from narrowband radiated electromagnetic energy — Part 4: Harness Excitation methods ISO 11452-4:2011 | 专用章 | |



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| | | Item/Parameter | | - Standard or Mothod | |
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| Nº | Test Object | Nº | Item/ Parameter | Stanuaru or Mictilou | Note |
| | C2 | | | Regulation No. 10 Uniform provisions concerning the approval of vehicles with regard to electromagnetic compatibility ECE R10.05 Annex 9 Appendix 4 | C |
| | | CHINA I | NATIONAL ACCRED | Immunity to Radiated Electromagnetic Fields - Bulk Current Injection (BCI) Method SAE J1113-4:2014 | |
| | | | SCHEDULI | Limits and Methods of Measurement Procedure of Electromagnetic Radiated Immunity of Components and Modules for On-Board Vehicles GB/T 17619- 1998 | |
| | | 10 | 10 Stripline RF Immunity | Road vehicles — Component testmethods for electrical disturbances from narrowband radiated electromagnetic energy — Part 5: Stripline ISO 11452-5:2002 | |
| | | | | Regulation No. 10 Uniform provisions concerning the approval of vehicles with regard to electromagnetic compatibility ECE R10.05 Annex 9 | |
| | | | | Electromagnetic Compatibility Measurement Procedure for Vehicle Components - Immunity to Radiated Electromagnetic Fields, 10kHz to 200MHz, Strip Line Method SAE J1113-23:1995 | |
| | | | Immunity to Magnetic Field | Road vehicles — Component testmethods for electrical disturbances from narrowband radiated electromagnetic energy — Part 8:Immunity to Magnetic Field ISO 11452-8:2015 | |
| | | | | Electromagnetic Compatibility Measurement Procedure for Vehicle Components - Part 22 - Immunity to Radiated Magnetic Fields SAE J1113- 22:2010 | 家儿 |
| | | 12 | Immunity to Portable Transmitters | Road vehicles — Component testmethods for electrical disturbances from narrowband radiated electromagnetic energy — Part 9:Immunity to Portable Transmitters ISO 11452-9: 2012 | |
| 2 | Electric vehicle | | All Items | Electric vehicle conductive charging system –Part 1: general requirements IEC 61851-1:2017 | 41A 主田音 |
| 3 | charging system | 1 | Functions provided in Mode 2, 3 and 4 | Electric vehicle conductive charging system –Part 1: general requirements IEC 61851-1:2017 6.3 | 又川平 |



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| | | | 1 | Item/Parameter | | |
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| | JN≌ | l est Object | N₂ | Item/ Parameter | Standard or Method | Note |
| | | | 2 | Protection against electric shock | Electric vehicle conductive charging system –Part 1: general requirements IEC 61851-1:2017 8 | |
| | | | 3 | Strain relief | Electric vehicle conductive charging system –Part 1: general requirements IEC 61851-1:2017 11.6 | S |
| | | | 4 | Clearances and creepage distances | Electric vehicle conductive charging system –Part 1: general requirements IEC 61851-1:2017 12.3 | |
| | | | 5 | IP degrees | Electric vehicle conductive charging system –Part 1: general requirements IEC 61851-1:2017 12.4 | The test is carried out in No.250, Jiangchang san Road, Building 16 Headquarte r Economy Park Shibei Hi- Tech Park, Jing'an District, Shanghai, P.R.China |
| | | | 6 | Insulation resistance | Electric vehicle conductive charging system –Part 1: general requirements IEC 61851-1:2017 12.5 | ALL PART |
| | | | 7 | Touch current | Electric vehicle conductive charging system –Part 1: general requirements IEC 61851-1:2017 12.6 | AK AK |
| | | | 8 | Dielectric withstand | Electric vehicle conductive charging system –Part 1: general requirements IEC 61851-1:2017 12.7 | 专用章 |
| | | C | 9 | Temperature rise | Electric vehicle conductive charging system –Part 1: general requirements IEC 61851-1:2017 12.8 | Accredited only for |



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| 20 | Tast Object | Item/Parameter | | - Standard or Mathad | NT. 4 |
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| JN≌ | Test Object | N₂ | Item/ Parameter | Standard or Method | Note |
|) | CAr | CHINA I | NATIONAL ACCRED | ITATION SERVICE FOR CONFORMITY ASSESSMENT OF ACCREDITATION CERTIFICATE | volume≤(7 50x800x75 0)mm;tem perature:(- 70~150)°C; humidity:(10~98%)R H |
| | | 10 | Damp heat functional test | Electric vehicle conductive charging system –Part 1: general requirements IEC 61851-1:2017 12.9 | Accredited only for volume≤(7 50x800x75 0)mm;tem perature:(- 70~150)°C; humidity:(10~98%)R H |
|) | | 11 | Minimum temperature functional test | Electric vehicle conductive charging system –Part 1: general requirements IEC 61851-1:2017 12.10 | Accredited only for volume≤(1 000x1000x 1000)mm;t emperature :(- 70~150)°C |
| | | 12 | Mechanical strength | Electric vehicle conductive charging system –Part 1: general requirements IEC 61851-1:2017 12.11 | 朝璋 |
| | C | 13 | Marking and instructions | Electric vehicle conductive charging system –Part 1: general requirements IEC 61851-1:2017 16 | |

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| | | Item/Parameter | | | |
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| N⁰ | l est Object | N₂ | Item/ Parameter | Standard or Method | Note |
| | C ² | 14 CHINA | Control pilot function through a control pilot circuit using a PWM signal and a control pilot wire | Electric vehicle conductive charging system –Part 1: general requirements IEC 61851-1:2017 Annex A | S |
| | | | All Items SCHEDULE | Electric vehicle conductive charging system –Part 1: general requirements IEC 61851-1:2010,EN 61851-1:2011 | |
| | | 1 | Functions provided in each mode of charging for modes 2, 3, and 4 | Electric vehicle conductive charging system –Part 1: general requirements IEC 61851-1:2010,EN 61851-1:2011 6.4 | |
| | Electric vehicle conductive charging system | 2 | Protection against electric shock | Electric vehicle conductive charging system –Part 1: general requirements IEC 61851-1:2010,EN 61851-1:2011 7 | |
| 4 | | 3 | IP degrees for basic and universal interfaces | Electric vehicle conductive charging system –Part 1: general requirements IEC 61851-1:2010,EN 61851-1:2011 11.3 | The test carried o in No.25 Jiangcha san Roac Building 16 Headqua r Econor Park Shibei H Tech Pau Jing'an District, Shangha P.R.Chin |
| | C | 4 | Dielectric withstand | Electric vehicle conductive charging system –Part 1: general requirements | |

| | 20 | |] | Item/Parameter | | |
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| | JN≌ | Test Object | N₂ | Item/ Parameter | Standard of Method | Note |
| | | | | characteristics | IEC 61851-1:2010,EN 61851-1:2011 11.4 | |
| | | | 5 | Insulation resistance | Electric vehicle conductive charging system –Part 1: general requirements IEC 61851-1:2010,EN 61851-1:2011 11.5 | |
| | | | CHINA I 6 | Clearances and creepage distances | Electric vehicle conductive charging system –Part F: general requirements IEC 61851-1:2010,EN 61851-1:2011 11.6 | |
| | | | 7 | Leakage – touch current | Electric vehicle conductive charging system –Part 1: general requirements IEC 61851-1:2010,EN 61851-1:2011 11.7 | |
| | | | 8 | Environmental tests | Electric vehicle conductive charging system –Part 1: general requirements IEC 61851-1:2010,EN 61851-1:2011 11.8 | |
| | | | 9 | Permissible surface temperature | Electric vehicle conductive charging system –Part 1: general requirements IEC 61851-1:2010,EN 61851-1:2011 11.9 | |
| | | | 10 | Mechanical environmental tests | Electric vehicle conductive charging system –Part 1: general requirements IEC 61851-1:2010,EN 61851-1:2011 11.11 | C |
| | | | 11 | Legibility | Electric vehicle conductive charging system –Part 1: general requirements IEC 61851-1:2010,EN 61851-1:2011 11.15.2 | |
| |) | | | All Items | Electric vehicle conductive charging system —Part 21: Electric vehicle requirements for conductive connection to an a.c/d.c. Supply IEC 61851-21:2001,EN 61851-21:2002 | |
| | | Electric vehicle | 1 | Earthing connection and electric vehicle continuity | Electric vehicle conductive charging system —Part 21: Electric vehicle requirements for conductive connection to an a.c/d.c. Supply IEC 61851-21:2001,EN 61851-21:2002 7.2 | 家山 |
| | 5 | conductive charging system | 2 | Dielectric withstand characteristics | Electric vehicle conductive charging system —Part 21: Electric vehicle requirements for conductive connection to an a.c/d.c. Supply IEC 61851-21:2001,EN 61851-21:2002 8.1 | |
| ~ | | | 3 | Touch current | Electric vehicle conductive charging system —Part 21: Electric vehicle requirements for conductive connection to an a.c/d.c. Supply IEC 61851-21:2001,EN 61851-21:2002 8.2 | 胡章 |
| | | C | 4 | Creepage distances and clearances | Electric vehicle conductive charging system —Part 21: Electric vehicle requirements for conductive connection to an a.c/d.c. Supply IEC 61851- | |



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| 20 | Test Object | Item/Parameter | | - Standard or Method | Nata | |
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| JN≌ | Test Object | Nº | Item/ Parameter | Standard or Method | Note | |
| | | | | 21:2001,EN 61851-21:2002 8.4 | | |
| | | CHINA I | Legibility | Electric vehicle conductive charging system —Part 21: Electric vehicle requirements for conductive connection to an a.c/d.c. Supply IEC 61851-21:2001,EN 61851-21:2002 12.2 | S | |
| | | | All Items SCHEDULE | Electric vehicle conductive charging system —Part 22: AC electric vehicle charging station IEC 61851-22:2001,EN 61851-22:2002 | | |
| | C | 1 | Control functions | Electric vehicle conductive charging system —Part 22: AC electric vehicle charging station IEC 61851-22:2001,EN 61851-22:2002 8.1 | | |
| | | 2 | Permissible surface temperature | Electric vehicle conductive charging system —Part 22: AC electric vehicle charging station IEC 61851-22:2001,EN 61851-22:2002 8.3 | | |
| | | 3 | Charging station protection degree (IP) | Electric vehicle conductive charging system —Part 22: AC electric vehicle charging station IEC 61851-22:2001,EN 61851-22:2002 8.4 | | |
| | | 4 | Earthing electrode and continuity | Electric vehicle conductive charging system —Part 22: AC electric vehicle charging station IEC 61851-22:2001,EN 61851-22:2002 9.2 | 5 | |
| | AC electric | AC electric | 5 | Dielectric withstand characteristics | Electric vehicle conductive charging system —Part 22: AC electric vehicle charging station IEC 61851-22:2001,EN 61851-22:2002 10.1 | |
| 6 | vehicle charging station | 6 | touch current | Electric vehicle conductive charging system —Part 22: AC electric vehicle charging station IEC 61851-22:2001,EN 61851-22:2002 10.2 | | |
| | | 7 | Creepage distances and clearances | Electric vehicle conductive charging system —Part 22: AC electric vehicle charging station IEC 61851-22:2001,EN 61851-22:2002 10.4 | | |
| | | 8 | Climatic environmental tests | Electric vehicle conductive charging system —Part 22: AC electric vehicle charging station IEC 61851-22:2001,EN 61851-22:2002 11.1 | Accredited only for volume≤(7 50x800x75 0)mm;tem perature:(- | |
| | | | | | /0~150)°C; humidity:(10~98%)R | |

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| | | Item/Parameter | | | N. A. |
|----|-------------|----------------|--------------------------------------|---|-------|
| Nº | Test Object | N₂ | Item/ Parameter | Standard or Method | Note |
| | | | | | Н |
| | | 9 | Mechanical environmental tests | Electric vehicle conductive charging system —Part 22: AC electric vehicle charging station IEC 61851-22:2001,EN 61851-22:2002 11.2 | |
| | | CHINA I 10 | Legibility | Electric vehicle conductive charging system —Part 22: AC electric vehicle charging station IEC 61851-22:2001,EN 61851-22:2002 14.2 | |
| | C | | All Items | Electric vehicle conductive charging system –Part 23: DC electric vehicle charging station IEC 61851-23:2014,IEC 61851-23:2014/COR1:2016,EN 61851-23:2014,EN 61851-23:2014/AC:2016 | |
| | DC electric | 1 | Functions provided in d.c. charging | Electric vehicle conductive charging system –Part 23: DC electric vehicle charging station IEC 61851-23:2014,IEC 61851-23:2014/COR1:2016,EN 61851-23:2014,EN 61851-23:2014/AC:2016 6.4 | |
| | | 2 | Protection against electric shock | Electric vehicle conductive charging system –Part 23: DC electric vehicle charging station IEC 61851-23:2014,IEC 61851-23:2014/COR1:2016,EN 61851-23:2014,EN 61851-23:2014/AC:2016 7 | S |
| 7 | | 3 | Breaking capacity | Electric vehicle conductive charging system –Part 23: DC electric vehicle charging station IEC 61851-23:2014,IEC 61851-23:2014/COR1:2016,EN 61851-23:2014,EN 61851-23:2014/AC:2016 9.4 | |
| 1 | station | 4 | Dielectric withstand characteristics | Electric vehicle conductive charging system –Part 23: DC electric vehicle charging station IEC 61851-23:2014,IEC 61851-23:2014/COR1:2016,EN 61851-23:2014,EN 61851-23:2014/AC:2016 11.4 | |
| | | 5 | Insulation resistance | Electric vehicle conductive charging system –Part 23: DC electric vehicle charging station IEC 61851-23:2014,IEC 61851-23:2014/COR1:2016,EN 61851-23:2014,EN 61851-23:2014/AC:2016 11.5 | R. L. |
| | | 6 | Clearances and creepage distances | Electric vehicle conductive charging system –Part 23: DC electric vehicle charging station IEC 61851-23:2014,IEC 61851-23:2014/COR1:2016,EN 61851-23:2014,EN 61851-23:2014/AC:2016 11.6 | 開発書 |
| | | 7 | Leakage – touch current | Electric vehicle conductive charging system –Part 23: DC electric vehicle charging station IEC 61851-23:2014,IEC 61851-23:2014/COR1:2016,EN 61851-23:2014,EN 61851-23:2014/AC:2016 11.7 | 专用早 |





| 20 | | Item/Parameter | | | NUL |
|-----|-------------|----------------|--|---|--|
| JN≌ | Test Object | N₂ | Item/ Parameter | Standard or Method | Note |
| | | CHINA I | ATIONAL ACCRED SCHEDULI IP degrees for ingress of objects | ITATION SERVICE FOR CONFORMITY ASSESSMENT OF ACCREDITATION CERTIFICATE Electric vehicle conductive charging system –Part 23: DC electric vehicle charging station IEC 61851-23:2014,IEC 61851-23:2014/COR1:2016,EN 61851-23:2014,EN 61851-23:2014/AC:2016 101.1.2 | The test is carried out in No.250, Jiangchang san Road, Building 16 Headquarte r Economy Park Shibei Hi- Tech Park, Jing'an District, Shanghai, P. P. Chino |
|) | | 9 | Stability | Electric vehicle conductive charging system –Part 23: DC electric vehicle charging station IEC 61851-23:2014,IEC 61851-23:2014/COR1:2016,EN 61851-23:2014,EN 61851-23:2014/AC:2016 101.1.4 | |
| | | 10 | Rated outputs and maximum output power | Electric vehicle conductive charging system –Part 23: DC electric vehicle charging station IEC 61851-23:2014,IEC 61851-23:2014/COR1:2016,EN 61851-23:2014,EN 61851-23:2014/AC:2016 101.2.1.1 | 東ノ |
| | | 11 | Output voltage and current tolerance | Electric vehicle conductive charging system –Part 23: DC electric vehicle charging station IEC 61851-23:2014,IEC 61851-23:2014/COR1:2016,EN 61851-23:2014,EN 61851-23:2014/AC:2016 101.2.1.2 | |
| | | 12 | Control delay of charging current in CCC | Electric vehicle conductive charging system –Part 23: DC electric vehicle charging station IEC 61851-23:2014,IEC 61851-23:2014/COR1:2016,EN 61851-23:2014,EN 61851-23:2014/AC:2016 101.2.1.3 | 414 |
| | C | 13 | Descending rate of charging current | Electric vehicle conductive charging system –Part 23: DC electric vehicle charging station IEC 61851-23:2014,IEC 61851-23:2014/COR1:2016,EN | |



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C

| | | |] | Item/Parameter | | |
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| | JN≙ | l est Object | Nº | Item/ Parameter | Standard or Method | Note |
| | | | | | 61851-23:2014,EN 61851-23:2014/AC:2016 101.2.1.4 | |
| | | | 14 CHINA I | Periodic and random deviation (current ripple) | Electric vehicle conductive charging system –Part 23: DC electric vehicle charging station IEC 61851-23:2014,IEC 61851-23:2014/COR1:2016,EN 61851-23:2014,EN 61851-23:2014/AC:2016 101.2.1.5 | |
| C | | | 15 | Periodic and random deviation (voltage ripple in CVC) | Electric vehicle conductive charging system –Part 23: DC electric vehicle charging station IEC 61851-23:2014,IEC 61851-23:2014/COR1:2016,EN 61851-23:2014,EN 61851-23:2014/AC:2016 101.2.1.6 | |
| | | | 16 | Load dump | Electric vehicle conductive charging system –Part 23: DC electric vehicle charging station IEC 61851-23:2014,IEC 61851-23:2014/COR1:2016,EN 61851-23:2014,EN 61851-23:2014/AC:2016 101.2.1.7 | |
| | | C, | 17 | Effective earth continuity between the enclosure and the external protectivecircuit | Electric vehicle conductive charging system –Part 23: DC electric vehicle charging station IEC 61851-23:2014,IEC 61851-23:2014/COR1:2016,EN 61851-23:2014,EN 61851-23:2014/AC:2016 101.2.2 | S |
| 9 | | | 18 | Communication between EV and d.c. EV charging station | Electric vehicle conductive charging system –Part 23: DC electric vehicle charging station IEC 61851-23:2014,IEC 61851-23:2014/COR1:2016,EN 61851-23:2014,EN 61851-23:2014/AC:2016 102 | |
| | | | 19 | DC EV charging station of system A | Electric vehicle conductive charging system –Part 23: DC electric vehicle charging station IEC 61851-23:2014,IEC 61851-23:2014/COR1:2016,EN 61851-23:2014,EN 61851-23:2014/AC:2016 Annex AA | 家山 |
| | | | 20 | DC EV charging station of system B | Electric vehicle conductive charging system –Part 23: DC electric vehicle charging station IEC 61851-23:2014,IEC 61851-23:2014/COR1:2016,EN 61851-23:2014,EN 61851-23:2014/AC:2016 Annex BB | |
| C | | | 21 | DC EV charging station of system C(Combined charging system) | Electric vehicle conductive charging system –Part 23: DC electric vehicle charging station IEC 61851-23:2014,IEC 61851-23:2014/COR1:2016,EN 61851-23:2014,EN 61851-23:2014/AC:2016 Annex CC | 414 表用章 |
| | 8 | Electric vehicle | | All Items | Electric vehicle conductive charging system - Part 24: Digital communication | |

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| | | | Item/Parameter | | Standard or Method | Nata |
|---|-----|-------------------------------|----------------|---------------------------------------|--|------|
| | JN⊉ | Test Object | Nº | Item/ Parameter | Stanuar u or Michiou | Note |
| | | conductive charging system | | | between a d.c. EV charging station and an electric vehicle for control of d.c. charging IEC 61851-24:2014,IEC 61851-24:2014/COR1:2015,EN 61851-24:2014,EN 61851-24:2014/AC:2015 | 6 |
| | | | CHINA I 1 | EVSE-Protocols | Electric vehicle conductive charging system - Part 24: Digital communication between a d.c. EV charging station and an electric vehicle for control of d.c. charging IEC 61851-24:2014,IEC 61851-24:2014/COR1:2015,EN 61851- 24:2014,EN 61851-24:2014/AC:2015 Annex A | |
| 2 | | | 2 | EV-Protocols | Electric vehicle conductive charging system - Part 24: Digital communication between a d.c. EV charging station and an electric vehicle for control of d.c. charging IEC 61851-24:2014,IEC 61851-24:2014/COR1:2015,EN 61851- 24:2014,EN 61851-24:2014/AC:2015 Annex A | |
| | | 5 | 3 | EVSE-Physical- and Data-Link-Layer | Electric vehicle conductive charging system - Part 24: Digital communication between a d.c. EV charging station and an electric vehicle for control of d.c. charging IEC 61851-24:2014,IEC 61851-24:2014/COR1:2015,EN 61851- 24:2014,EN 61851-24:2014/AC:2015 Annex A | 5 |
| | | | 4 | EV-Physical- and Data-Link-Layer | Electric vehicle conductive charging system - Part 24: Digital communication between a d.c. EV charging station and an electric vehicle for control of d.c. charging IEC 61851-24:2014,IEC 61851-24:2014/COR1:2015,EN 61851- 24:2014,EN 61851-24:2014/AC:2015 Annex A | |
| | | | 5 | EVSE-Protocols | Electric vehicle conductive charging system - Part 24: Digital communication between a d.c. EV charging station and an electric vehicle for control of d.c. charging IEC 61851-24:2014,IEC 61851-24:2014/COR1:2015,EN 61851- 24:2014,EN 61851-24:2014/AC:2015 Annex B | 家山谷 |
| | | C | 6 | EV-Protocols | Electric vehicle conductive charging system - Part 24: Digital communication between a d.c. EV charging station and an electric vehicle for control of d.c. charging IEC 61851-24:2014,IEC 61851-24:2014/COR1:2015,EN 61851- 24:2014,EN 61851-24:2014/AC:2015 Annex B | 教员会 |
| | | G | 7 | EVSE-Physical- and Data-Link-Layer | Electric vehicle conductive charging system - Part 24: Digital communication between a d.c. EV charging station and an electric vehicle for control of d.c. charging IEC 61851-24:2014,IEC 61851-24:2014/COR1:2015,EN 61851- | 又用早 |



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| | TANK | Item/Parameter | | Standard or Mathed | NT. 4 | |
|----|-------------|----------------|--|--|----------|--|
| N≌ | Test Object | Nº | Item/ Parameter | Standard or Method | Note | |
| | | | | 24:2014,EN 61851-24:2014/AC:2015 Annex B | | |
| | | CHINA | EV-Physical- and Data-Link-Layer | Electric vehicle conductive charging system - Part 24: Digital communication between a d.c. EV charging station and an electric vehicle for control of d.c. charging IEC 61851-24:2014,IEC 61851-24:2014/COR1:2015,EN 61851- 24:2014,EN 61851-24:2014/AC:2015 Annex B | | |
| | | 9 | EVSE-Protocols | Electric vehicle conductive charging system - Part 24: Digital communication between a d.c. EV charging station and an electric vehicle for control of d.c. charging IEC 61851-24:2014,IEC 61851-24:2014/COR1:2015,EN 61851- 24:2014,EN 61851-24:2014/AC:2015 Annex C | | |
| | | 10 | EV-Protocols | Electric vehicle conductive charging system - Part 24: Digital communication between a d.c. EV charging station and an electric vehicle for control of d.c. charging IEC 61851-24:2014,IEC 61851-24:2014/COR1:2015,EN 61851- 24:2014,EN 61851-24:2014/AC:2015 Annex C | C | |
| | | 11 | EVSE-Physical- and Data-Link-Layer | Electric vehicle conductive charging system - Part 24: Digital communication between a d.c. EV charging station and an electric vehicle for control of d.c. charging IEC 61851-24:2014,IEC 61851-24:2014/COR1:2015,EN 61851- 24:2014,EN 61851-24:2014/AC:2015 Annex C | | |
| | | 12 | EV-Physical- and Data-Link-Layer | Electric vehicle conductive charging system - Part 24: Digital communication between a d.c. EV charging station and an electric vehicle for control of d.c. charging IEC 61851-24:2014,IEC 61851-24:2014/COR1:2015,EN 61851- 24:2014,EN 61851-24:2014/AC:2015 Annex C | 家山 | |
| | | 13 | EVSE-Protocols & Physical- and Data-Link Layer | Electric vehicle conductive charging system - Part 24: Digital communication between a d.c. EV charging station and an electric vehicle for control of d.c. charging IEC 61851-24:2014,IEC 61851-24:2014/COR1:2015,EN 61851- 24:2014,EN 61851-24:2014/AC:2015 Annex C | THE REAL | |
| | | 14 | EV-Protocols & Physical- and Data-Link Layer | Electric vehicle conductive charging system - Part 24: Digital communication between a d.c. EV charging station and an electric vehicle for control of d.c. charging IEC 61851-24:2014,IEC 61851-24:2014/COR1:2015,EN 61851- 24:2014,EN 61851-24:2014/AC:2015 Annex C | 专用章 | |



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| | | | Item/Parameter | | |
|----|-------------------------------------|----|---|--|------|
| N⁰ | Test Object | N₂ | Item/ Parameter | - Standard or Method | Note |
| | | | All Items | Electric vehicle charging system TR 25:2016 | |
| | | | Modes of EV charging and control pilot fuction ACCREE | Electric vehicle charging system TR 25:2016 1.6 | |
| | | 2 | Protection against ecectric shock | Electric vehicle charging system TR 25:2016 1.7 | |
|) | | 3 | Connection between the power supply and the EV | Electric vehicle charging system TR 25:2016 1.8 | |
| | C P | 4 | Specific requirements for vehicle inlet, connector, plug and socket-outlet | Electric vehicle charging system TR 25:2016 1.9 | G |
| 9 | Electric vehicle charging system | 5 | Charging cable assembly requirements | Electric vehicle charging system TR 25:2016 1.10 | |
|) | | 6 | EV supply equipements requirements | Electric vehicle charging system TR 25:2016 1.11 | |
| | C | 7 | installation requirements for EV public charging station | Electric vehicle charging system TR 25:2016 1.12 | 家山山 |
| | | 8 | General system rquirement and interface | Electric vehicle charging system TR 25:2016 2.6 | |
| | | 9 | Specific requirements for d.c. EV charging station | Electric vehicle charging system TR 25:2016 2.12 | 又川平 |



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| | TANK | Item/Parameter | | | Nut | |
|----|---|----------------|--|--|---|--|
| N⊵ | Test Object | N⁰ | Item/ Parameter | Standard or Method | Note | |
| | C2Y | 10 | Communication between EV and d.c. EV charging staion | Electric vehicle charging system TR 25:2016 2.13 | C | |
| | | СНИАІ | Annexes to Section One | Electric vehicle charging system TR-25:2016 附录 BESSMENT | | |
| | | 12 | Annexes to Section | Electric vehicle charging system TR 25:2016 附录 2 | | |
| | C | | All Items | Electric vehicle conductive charging system - Part 1: General requirements GB/T 18487.1-2015 | | |
| | Electric vehicle conductive charginq system | | 1 | Functions provided in Mode 2, 3 and 4 | Electric vehicle conductive charging system - Part 1: General requirements GB/T 18487.1-2015 5.2 | |
| | | 2 | Protection against electric shock | Electric vehicle conductive charging system - Part 1: General requirements GB/T 18487.1-2015 7 | | |
| | | 3 | Breaking capacity | Electric vehicle conductive charging system - Part 1: General requirements GB/T 18487.1-2015 9.3 | 5 | |
| | | 4 | Clearances and creepage distances | Electric vehicle conductive charging system - Part 1: General requirements GB/T 18487.1-2015 10.4 | | |
| 10 | | 5 | IP degrees | Electric vehicle conductive charginq system - Part 1: General requirements GB/T 18487.1-2015 10.5 | The test is carried out in No.250, Jiangchang san Road, Building 16 Headquarte r Economy Park Shibei Hi- Tech Park, Jing'an | |

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| | T. COLLAR | Item/Parameter | | | |
|----|---|----------------|---|--|-------------------------------------|
| N⁰ | Test Object | Nº | Item/ Parameter | Standard or Method | Note |
| | C? | | | | District, Shanghai, P.R.China |
| | | СНІЙА | Touch current CCRED | Electric vehicle conductive charging system - Part 1: General requirements GB/T 18487.1-2015 11.2 | |
| | | 7 | Insulation resistance | Electric vehicle conductive charging system - Part 1: General requirements GB/T 18487.1-2015 11.3 | |
| | C | 8 | Dielectric withstand | Electric vehicle conductive charging system - Part 1: General requirements GB/T 18487.1-2015 11.4 | |
| | | 9 | Impulse voltage generator | Electric vehicle conductive charging system - Part 1: General requirements GB/T 18487.1-2015 11.5 | |
| | | 10 | Temperature rise | Electric vehicle conductive charging system - Part 1: General requirements GB/T 18487.1-2015 11.6 | |
| | | 11 | service conditions | Electric vehicle conductive charging system - Part 1: General requirements GB/T 18487.1-2015 14 | 5 |
| | | 12 | Marking and instructions | Electric vehicle conductive charging system - Part 1: General requirements GB/T 18487.1-2015 16 | |
| | | 13 | AC control pilot circuit and Control pilot function | Electric vehicle conductive charging system - Part 1: General requirements GB/T 18487.1-2015 Annex A | |
| | | 14 | DC control pilot circuit and Control pilot function | Electric vehicle conductive charging system - Part 1: General requirements GB/T 18487.1-2015 Annex B | 家山山 |
| 11 | Electric vehicle conductive charginq system | | All Items | Electric vehicle conductive charging system - Electric vehicles requirements for conductive connection to an A.C/D.C. Supply GB/T 18487.2-2001 | 族贝科 |
| 11 | | 1 | Earthing connection and electric vehicle continuity | Electric vehicle conductive charging system - Electric vehicles requirements for conductive connection to an A.C/D.C. Supply GB/T 18487.2-2001 7.2 | 专用章 |



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| | | 1 | Item/Parameter | | N T / |
|----|-------------------|---------|--|---|--------------|
| N≌ | l est Object | № | Item/ Parameter | Standard or Method | Note |
| | C | 2 | Dielectric withstand characteristics | Electric vehicle conductive charging system - Electric vehicles requirements for conductive connection to an A.C/D.C. Supply GB/T 18487.2-2001 8.1 | C |
| | | CHINA I | Touch current CCRED | Electric vehicle conductive charging system - Electric vehicles requirements for conductive connection to an A.C/D.C. Supply GB/T 18487.2-2001 8.2 | |
| | C | 4 | Creepage distances and clearances | Electric vehicle conductive charging system - Electric vehicles requirements for conductive connection to an A.C/D.C. Supply GB/T 18487.2-2001 8.4 | |
| | | 5 | Legibility | Electric vehicle conductive charging system - Electric vehicles requirements for conductive connection to an A.C/D.C. Supply GB/T 18487.2-2001 12.2 | |
| | | | All Items | Electric vehicle conductive charging system - A.C/D.C. Electric vehicles charging station GB/T 18487.3-2001 | 6 |
| | | 1 | Control functions | Electric vehicle conductive charging system - A.C/D.C. Electric vehicles charging station GB/T 18487.3-2001 8.1 | |
| | | 2 | Permissible surface temperature | Electric vehicle conductive charging system - A.C/D.C. Electric vehicles charging station GB/T 18487.3-2001 8.4 | |
| | A.C/D.C. | 3 | Charging station protection degree (IP) | Electric vehicle conductive charging system - A.C/D.C. Electric vehicles charging station GB/T 18487.3-2001 8.5 | |
| 12 | Electric vehicles | 4 | DC Voltage/ Current Output | Electric vehicle conductive charging system - A.C/D.C. Electric vehicles charging station GB/T 18487.3-2001 8.10 | 家儿 |
| | charging station | 5 | Earthing electrode and continuity | Electric vehicle conductive charging system - A.C/D.C. Electric vehicles charging station GB/T 18487.3-2001 9.2 | |
| | | 6 | Dielectric withstand characteristics | Electric vehicle conductive charging system - A.C/D.C. Electric vehicles charging station GB/T 18487.3-2001 10.1 | 明社 |
| | | 7 | touch current | Electric vehicle conductive charging system - A.C/D.C. Electric vehicles charging station GB/T 18487.3-2001 10.2 | 朝璋 |
| | C | 8 | Creepage distances and clearances | Electric vehicle conductive charging system - A.C/D.C. Electric vehicles charging station GB/T 18487.3-2001 10.4 | |



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| | | Test Object | Item/Parameter | | Standard or Mathod | |
|---|----|--|----------------|---|---|---|
| | N≌ | l est Object | N₂ | Item/ Parameter | Standard or Method | Note |
| |) | C Pr | CHINA I 9 | Climatic environmental tests | TATION SERVICE FOR CONFORMITY ASSESSMENT Electric vehicle conductive charging system - A.C/D.C. Electric vehicles charging station GB/T 18487.3-2001 11.1 | Accredited only for volume≤(2 000x2400x 2000)mm;t emperature :(-40~ 120)°C; humidity:(20~98%)R H |
| | | | 10 | Mechanical environmental tests | Electric vehicle conductive charging system - A.C/D.C. Electric vehicles charging station GB/T 18487.3-2001 11.2 | |
| | | | 11 | Legibility | Electric vehicle conductive charging system - A.C/D.C. Electric vehicles charging station GB/T 18487.3-2001 15.2 | 5 |
| | | | | All Items | Interoperability test specifications of electric vehicle conductive charging-Part 1: Supply equipment GB/T 34657.1-2017 | |
| 5 | 12 | conductive | 1 | charging interface interoperability test | Interoperability test specifications of electric vehicle conductive charging-Part 1: Supply equipment GB/T 34657.1-2017 6.2 | |
| | 13 | system-Supply | 2 | DC charging operability test | Interoperability test specifications of electric vehicle conductive charging-Part 1: Supply equipment GB/T 34657.1-2017 6.3 | |
| | | equipment | 3 | AC charging operability test | Interoperability test specifications of electric vehicle conductive charging-Part 1: Supply equipment GB/T 34657.1-2017 6.4 | * il an |
| | | Electric vehicle | | All Items | Interoperability test specifications of electric vehicle conductive charging-Part 2: Vehicle GB/T 34657.2-2017 | |
| | 14 | conductive charginq system-Vehicle | 1 | Inlet space dimension check | Interoperability test specifications of electric vehicle conductive charging-Part 2: Vehicle GB/T 34657.2-2017 6.1 | 日田音 |
| | | | 2 | DC charging operability test | Interoperability test specifications of electric vehicle conductive charging-Part 2: Vehicle GB/T 34657.2-2017 6.2 | 平川平 |

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| | 30 | Test Object | Test Object | Test Object Item/Parameter Standard or Method | | Note | | | | | | | |
|---|----|---------------------------|---------------------------|--|--|--|--|----|-------|---|---|--|--|
| | N≌ | l est Object | Nº | Item/ Parameter | Standard or Method | Note | | | | | | | |
| | | | 3 | AC charging operability test | Interoperability test specifications of electric vehicle conductive charging-Part 2: Vehicle GB/T 34657.2-2017 6.3 | | | | | | | | |
| | | | | | All Items | On-board conductive charger for electric vehicle QC/T 895-2011 | | | | | | | |
| | | | | | | Environment test | On-board conductive charger for electric vehicle QC/T 895-2011 7.2 | | | | | | |
| | | | | | 2 | Input voltage and frequency test | On-board conductive charger for electric vehicle QC/T 895-2011 7.3 | | | | | | |
| | | | 3 | Functional requirements test | On-board conductive charger for electric vehicle QC/T 895-2011 7.4 | | | | | | | | |
| | | On-board | C PP | C P | C P | C P | C P | SP | C P P | 4 | High voltage electric charactristic tests | On-board conductive charger for electric vehicle QC/T 895-2011 7.5 | |
| | | | | | | | | | | | 5 | Dielectric withstand characteristics | On-board conductive charger for electric vehicle QC/T 895-2011 7.6 |
| | | | 6 | vibration test | On-board conductive charger for electric vehicle QC/T 895-2011 7.8.1 | | | | | | | | |
| | 15 | conductive charger for | 7 | shock test | On-board conductive charger for electric vehicle QC/T 895-2011 7.8.2 | | | | | | | | |
| 2 | | electric vehicle | 8 | Chemical agent withstand tests | On-board conductive charger for electric vehicle QC/T 895-2011 7.8.3 | | | | | | | | |
| | | CNA | 9 IP degree test On-board | On-board conductive charger for electric vehicle QC/T 895-2011 7.8.3 | The test is carried out in No.250, Jiangchang san Road, Building 16 Headquarte r Economy Park Shibei Hi- | | | | | | | | |

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| | | | Item/Parameter | | | |
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| | N⊵ | Test Object | Nº | Item/ Parameter | Standard or Method | Note |
| | | C, | CHINA | NATIONAL ACCRED | ITATION SERVICE FOR CONFORMITY ASSESSMENT | Tech Park, Jing'an District, Shanghai, P.R.China |
| | | | 10 | Noise test SCHEDULE | On-board conductive charger for electric vehicle QC/T 895-2011 7.8.4 | |
| | | C | 11 | Endurance test | On-board conductive charger for electric vehicle QC/T 895-2011 7.9 | |
| | 16 | Electric and electronic products | 1 | cold | Environmental testing for electric and electronic productsPart 2:Test methodsTests A:Cold GB/T 2423.1-2008 Environmental testing Part 2-1: Tests Test A: Cold IEC 60068-2-1:2007 | Accredited only for volume≤(1 000x1000x 1000)mm;t emperature :(- 70~150)°C Accredited only for volume≤(1 000x1000x 1000)mm;t emperature :(- 70~150)°C |
| |) | | 2 | dry heat | Environmental testing for electric and electronic productsPart 2:Test methodsTests B:Dry heat GB/T 2423.2-2008 | Accredited only for volume≤(1 000x1000x 1000)mm;t emperature |
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| | Tost Object | Item/Parameter | | Standard or Mathed | Note |
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| JN≌ | Test Object | N⁰ | Item/ Parameter | Standard or Method | INOLE |
| | | | | | :(max.200 °C) |
| | | | | alahahaha ara ara ara ara ara ara ara ara | Accredited |
| | | CHINA | NATIONAL ACCRED | ITATION SERVICE FOR CONFORMITY ASSESSMENT | volume≤(1 |
| | | | SCHEDULE | Environmental testing Part 2.2: Tests Tests B: Dry heat IEC 60068-2-2:2007 | 000x1000x 1000)mm;t |
| | | | 6 | | emperature :(max.200 °C) |
| | | | | | Accredited only for |
| | | | | | $\frac{\text{volume}}{000 \times 1000 \text{x}}$ |
| | | | | Environmental testing for electric and electronic productsPart 2:Testing | 1000)mm;t |
| | | | | methodTest Cab:Damp heat, steady state GB/T 2423.3-2016 | :(- |
|) | | | | | 40~150)°C; |
| | G | 3 | damp heat, steady | | 25~98%)R |
| | | 5 | state | | H |
| | | | | | only for |
| | | | | | volume $\leq (1)$ |
| | | | | Environmental testing – Part 2-78: Tests – Test Cab: Damp heat, steady state | 1000)mm;t |
| | | | | | emperature |
| | | | | | .(- 40~150)°C; |
| | C | | | | humidity:(|

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| | 70 | т. (О): (| | Item/Parameter | | |
|--------------|----------|-------------|---------------|----------------------|---|---------------------|
| | JN≌ | Test Object | Nº | Item/ Parameter | Standard or Method | Note |
| | | | | | | 25~98%)R H |
| | | | | | | Accredited only for |
| | | | CHINA | NATIONAL ACCREL | TATION SERVICE FOR CONFORMITY ASSESSMENT | volume≤(1 |
| | | | | SCHEDUL | E OF ACCREDITATION CERTIFICATE | 000x1000x |
| 5 |) | | | | Environmental testing for electric and electronic productsPart 2:Test methodTest Db:Damp heat,cyclic (12h+12h cycle) GB/T 2423.4-2008 | emperature |
| | | | \mathcal{D} | | | 40~150)°C; |
| | | | | | G | humidity:(|
| | | | | | | 25~98%)R |
| | | | 4 | damp heat, cyclic | | H Accredited |
| | | | | | | only for |
| | | | | | | volume≤(1 |
| | | | | | | 000x1000x |
| | | | | | Environmental testing Part 2-30: Tests Test Db: Damp heat, cyclic (12 h + 12 | 1000)mm;t |
| | | | | | h cycle) IEC 60068-2-30:2005 | emperature |
| | | | \mathcal{D} | | | .(- 40~150)°C: |
| | | | • | | | humidity:(|
| | | | | | | 25~98%)R |
| | | | | | | H |
| | | | | | | Accredited |
| | | | | Composite | | volume<(1 |
| | | | 5 | temperature/humidity | Environmental testing - Part 2: Test methods - Test Z/AD: Composite temperature/humidity cyclic test GB/T 2423 34 2012 | 000x1000x |
| |) | | | cyclic test | | 1000)mm;t |
| | | | | | | emperature |
| ু শ লো চঞ | | S I 5776 | \mathcal{D} | | | .(-) |
| | NU. UINA | S L3//0 | | | · · · · · · · · · · · · · · · · · · · | 7 贝 茓 41 贝 |

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| | | Test Object | 1 | tem/Parameter | | |
|-------|---------|-------------|----------|------------------|--|--|
| | N≌ | Test Object | Nº | Item/ Parameter | Standard or Method | Note |
| | | Cor | CLUNIA I | | | 40~150)°C; humidity:(25~98%)R H |
| C | | | | SCHEDULI | OF ACCREDITATION CERTIFICATE | Accredited only for volume≤(1 |
| | | | | 5 | Environmental testing Part 2-38: Tests Test Z/AD: Composite temperature/humidity cyclic test IEC 60068-2-38:2009 | 1000)mm;t emperature |
| | | | | C | | 40~150)°C; humidity:(25~98%)R H |
| C C C |) | | | Change of | Environmental testing - Part 2: Tests methods - Test N: Change of temperature GB/T 2423.22-2012 | Accredited only for volume≤(9 70x460x67 0)mm;tem perature:(- 65~200)°C |
| C | | | 6 | temperature | Environmental testing Part 2-14: Tests Test N: Change of temperature IEC 60068-2-14:2009 | Accredited only for volume≤(9 70x460x67 0)mm;tem perature:(- 65~200)°C |
| | , | G | 7 | The free falling | Electric and electronic productsBasic environmental test regulations for | The test is |
| | No. CNA | S L5776 | | | 第 30 |)页共41页 |

| 70 | Test Object Standard o | | | NT. 4 | |
|-----|---|---------|-------------------------------|---|--|
| JN≌ | Test Object | N⁰ | Item/ Parameter | Standard or Miethod | Note |
| | C | CHINA 1 | MATIONAL ACCRED | electriciansTest Ed: The free falling method GB/T 2423.8-1995 | carried out in No.250, Jiangchang san Road, Building |
|) | 9 | | SCHEDULE | OF ACCREDITATION CERTIFICATE | 16 Headquarte r Economy Park Shibei Hi- |
| | | | C | | Tech Park, Jing'an District, Shanghai, P.R.China |
| 17 | Road vehicles - electrical and | 1 | General | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 1: General GB/T 28046.1-2011 | |
| 1/ | electronic equipment | 2 | General | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 1: General ISO 16750-1:2006 | |
| | | | All Items | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 2: Electrical loads GB/T 28046.2-2011,ISO 16750-2:2012 | 2 |
| 18 | Road vehicles - electrical and electronic | 1 | Direct current supply voltage | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 2: Electrical loads GB/T 28046.2-2011 4.2 Road vehicles - Environmental conditions and testing for electrical and | |
| | equipment | 2 | Overvoltage | electronic equipment - Part 2: Electrical loads ISO 16750-2:2012 4.2 Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 2: Electrical loads GB/T 28046.2-2011 4.3 Road vehicles - Environmental conditions and testing for electrical and | 制章 |
| · | C | | | electronic equipment - Part 2: Electrical loads ISO 16750-2:2012 4.3 | |



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| | | | Item/Parameter | | |
|----|-------------|--------------------|---|--|---------|
| N≌ | Test Object | Nº | Item/ Parameter | Standard or Method | Note |
| | | 3 | Superimposed alternating voltage | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 2: Electrical loads GB/T 28046.2-2011 4.4 Road vehicles - Environmental conditions and testing for electrical and | |
| | | | | electronic equipment - Part 2: Electrical loads ISO 16750-2:2012 4.4 | |
| | | | Slow decrease and increase of supply | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 2: Electrical loads GB/T 28046.2-2011 4.5 | |
| | | | voltage | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 2: Electrical loads ISO 16750-2:2012 4.5 | |
| | | Discontinuities in | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 2: Electrical loads GB/T 28046.2-2011 4.6 | | |
| | | 5 | supply voltage | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 2: Electrical loads ISO 16750-2:2012 4.6 | |
| | | 6 | Reversed voltage | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 2: Electrical loads GB/T 28046.2-2011 4.7 | C |
| | | 0 | Neversed voltage | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 2: Electrical loads ISO 16750-2:2012 4.7 | |
| | | 7 | Ground reference and supply offset | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 2: Electrical loads GB/T 28046.2-2011 4.8 | |
| | | | | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 2: Electrical loads ISO 16750-2:2012 4.8 | |
| | | 8 | Open circuit tests | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 2: Electrical loads GB/T 28046.2-2011 4.9 | 家山、 |
| | | 0 | Open encur tests | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 2: Electrical loads ISO 16750-2:2012 4.9 | AT A |
| | | 0 | Short circuit | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 2: Electrical loads GB/T 28046.2-2011 4.10 | AIX AIX |
| | | , , | protection | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 2: Electrical loads ISO 16750-2:2012 4.10 | 专用章 |
| | C | 10 | Withstand voltage | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 2: Electrical loads GB/T 28046.2-2011 4.11 | |



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| Trad Object | | Item/Parameter | | Standard or Method | NI-4- |
|-------------|--|----------------|-----------------------|---|--|
| JN≌ | Test Object | Nº | Item/ Parameter | Standard or Method | Note |
| | | | | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 2: Electrical loads ISO 16750-2:2012 4.11 | |
| | | CHINAI | Insulation resistance | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 2: Electrical loads GB/T 28046.2-2011 4.12 Road vehicles - Environmental conditions and testing for electrical and | 5 |
| | | | SCHEDULI | electronic equipment - Part 2: Electrical loads ISO 16750-2:2012 4.12 | |
| | C | | All Items | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 4: Climatic loads GB/T 28046.4-2011,ISO 16750-4:2010 | |
| 19 | Road vehicles - electrical and electronic equipment | 1 | Tests at constant | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 4: Climatic loads GB/T 28046.4-2011 5.1 | Accredited only for volume≤(1 000x1000x 1000)mm;t emperature :(- 40~150)°C; humidity:(25~98%)R H |
| | | cquipment | temperature | temperature | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 4: Climatic loads ISO 16750-4:2010 5.1 |

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| | | | | Item/Parameter | | |
|------|----|-------------|-------|-----------------------|--|-------------------------------|
| | N≌ | Test Object | Nº | Item/ Parameter | Standard or Method | Note |
| | | | | | | Н |
| | | | | | edulululur and a second and a second a | Accredited |
| | | | CHINA | NATIONAL ACCRED | ITATION SERVICE FOR CONFORMITY ASSESSMENT | volume≤(1 |
| | | | | SCHEDUL | OF ACCREDITATION CERTIFICATE | 000x1000x |
| G | | | | | Road vehicles - Environmental conditions and testing for electrical and | emperature |
| | | | | C | electronic equipment - Part 4: Climatic loads GB/1 28046.4-2011 5.2 | :(- |
| | | | | | \sim | 40~150)°C; humidity:(|
| | | | | | | 25~98%)R |
| | | | 2 | Temperature step test | | Accredited |
| | | | | | | only for |
| | | | | | | volume \leq (1 000x1000x |
| 6 | | | | | Road vehicles - Environmental conditions and testing for electrical and | 1000)mm;t |
| | | C | | | electronic equipment - Part 4: Climatic loads ISO 16750-4:2010 5.2 | emperature :(- |
| | | | P | | | 40~150)°C; |
| | | | | | | humidity:(25~98%)R |
| | | | | | | Н |
| | | | | | | Accredited only for |
| | | | | Temperature cycling | Road vehicles - Environmental conditions and testing for electrical and | volume≤(9 |
| C | | | 3 | tests | electronic equipment - Part 4: Climatic loads GB/T 28046.4-2011 5.3 | 0)mm;tem |
| | / | C | | | | perature:(- |
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| | | Test Object | | Nata | | |
|--------|---------|-------------|---------|--------------------|---|---|
| | N≌ | lest Object | Nº | Item/ Parameter | Standard or Method | Note |
| C | | C | CHINA I | NATIONAL ACCRED | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 4: Climatic loads ISO 16750-4:2010 5.3 OF ACCREDITATION CERTIFICATE | Accredited only for volume≤(9 70x460x67 0)mm;tem perature:(- 65~200)°C |
| | | | | Humid heat, cyclic | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 4: Climatic loads GB/T 28046.4-2011 5.6 | Accredited only for volume≤(1 000x1000x 1000)mm;t emperature :(- 40~150)°C; humidity:(25~98%)R H |
| 0 | | | | test | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 4: Climatic loads ISO 16750-4:2010 5.6 | Accredited only for volume≤(1 000x1000x 1000)mm;t emperature :(- 40~150)°C; humidity:(25~98%)R H |
| | | G | 5 | Damp heat, steady- | Road vehicles - Environmental conditions and testing for electrical and | Accredited |
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| | | - | Item/Parameter | | |
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| N≌ | Test Object | N⁰ | Item/ Parameter | Standard or Method | Note |
| | CR | CHINA | state test | electronic equipment - Part 4: Climatic loads GB/T 28046.4-2011 5.7 | only for volume≤(1 000x1000x 1000)mm;t emperature :(- 40~150)°C; humidity:(25~98%)R H |
| | | | CNAS | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 4: Climatic loads ISO 16750-4:2010 5.7 | Accredited only for volume≤(1 000x1000x 1000)mm;t emperature :(- 40~150)°C; humidity:(25~98%)R H |
| | | 6 | Dust and water protection | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 4: Climatic loads GB/T 28046.4-2011 7 | The test is carried out in No.250, Jiangchang san Road, Building 16 Headquarte r Economy Park |
| No. CNA | S L5776 | | | 第30 | 3页共41页 |

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| | - |]] | Item/Parameter | | |
|----|--|---|---|---|---|
| Nº | Test Object | N₂ | Item/ Parameter | Standard or Method | Note |
| | C. r | CHINA I | | ITATION SERVICE FOR CONFORMITY ASSESSMENT | Shibei Hi- Tech Park, Jing'an District, Shanghai, P.R.China |
| | | 7 | Dust test | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 4: Climatic loads ISO 16750-4:2010 5.10 | The test is carried out in No.250, Jiangchang san Road, Building 16 Headquarte r Economy Park Shibei Hi- Tech Park, Jing'an District, Shanghai, P.R.China |
| 20 | Road vehicles - electrical and electronic equipment | 1 | Chemical loads | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 5: Chemical loads GB/T 28046.5-2013 | Accredited only for volume≤(1 000x1000x 1000)mm;t emperature :(- 40~150)°C; |
| | <u>№</u> | N₂ Test Object Image: Second seco | N₂ Test Object N₂ N₂ CHINA CHINA CHINA CHINA 7 20 Road vehicles - electrical and electronic equipment 1 | № Test Object Item/Parameter № Item/Parameter № Item/Parameter № Item/Parameter № CHINA NATIONAL ACCRED SCHEDULT 7 Dust test 20 Road vehicles - electrical and electronic equipment 1 | Ne Test Object Item/Parameter Standard or Method Ne Ne Item/Parameter Standard or Method Image: A standard or Method Ne Image: A standard or Method Standard or Method Image: A standard or Method Image: A standard or Method Image: A standard or Method Image: A standard or Method Image: A standard or Method Image: A standard or Method Image: A standard or Method Image: A standard or Method Image: A standard or Method Image: A standard or Method Image: A standard or Method Image: A standard or Method Image: A standard or Method Image: A standard or Method Image: A standard or Method Image: A standard or Method Image: A standard or Method Image: A standard or Method Image: A standard or Method Image: A standard or Method Image: A standard or Method Image: A standard or Method Image: A standard or Method Image: A standard or Method Image: A standard or Method Image: A standard or Method Image: A standard or Method Image: A standard or Method Image: A standard or Method Image: A standard or Method Image: A standard or Method Image: A standard or Method Image: A standard or M |

| | Test Object | Item/Parameter | | | |
|-----|---|----------------|----------------------------------|--|---|
| JN≌ | | N₂ | Item/ Parameter | Standard or Method | Note |
| | Cit | | | | 25~98%)R H |
| | | CHINA I | NATIONAL ACCRED | ITATION SERVICE FOR CONFORMITY ASSESSMENT | only for volume≤(1 |
| | | | SCHEDUL | OF ACCREDITATION CERTIFICATE | 1000x1000x |
| | C | | ~ | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 5: Chemical loads ISO 16750-5:2010 | emperature :(- |
| | | | JP2 | | 40~150)°C; humidity:(25~98%)R H |
| 21 | Road vehicles — Environmental conditions and testing for electrical and electronic equipment for | 1 | General | Road vehicles — Environmental conditions and testing for electrical and electronic equipment for drive system of electric propulsion vehicles —Part 1:General ISO 19453-1:2018 | |
| | drive system of electric propulsion vehicles | | | | |
| 22 | Road vehicles — Environmental | | All Items | Road vehicles — Environmental conditions and testing for electrical and electronic equipment for drive system of electric propulsion vehicles —Part 4:Climatic loads ISO19453-4:2018 | 414 |
| | conditions and testing for | 1 | Tests at constant temperature | Road vehicles — Environmental conditions and testing for electrical and electronic equipment for drive system of electric propulsion vehicles —Part | Accredited only for |

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| 20 | Test Object |] | Item/Parameter | Standard an Mathad | Nada |
|--|--|---------|---------------------------|--|---|
| Nº | l est Object | Nº | Item/ Parameter | Standard or Method | Note |
| electrical and electronic equipment for drive system of electric propulsion vehicles | electrical and electronic equipment for drive system of electric propulsion vehicles | CHINA I | NATIONAL ACCRED | 4:Climatic loads ISO19453-4:2018 5.1 | volume≤(1 000x1000x 1000)mm;t emperature :(- 40~150)°C; humidity:(25~98%)R H |
| | CNA | 2 | Temperature step test | Road vehicles — Environmental conditions and testing for electrical and electronic equipment for drive system of electric propulsion vehicles —Part 4:Climatic loads ISO19453-4:2018 5.2 | Accredited only for volume≤(1 000x1000x 1000)mm;t emperature :(- 40~150)°C; humidity:(25~98%)R H |
| | CNA | 3 | Temperature cycling tests | Road vehicles — Environmental conditions and testing for electrical and electronic equipment for drive system of electric propulsion vehicles —Part 4:Climatic loads ISO19453-4:2018 5.3 | Accredited only for volume≤(9 70x460x67 0)mm;tem perature:(- 65~200)°C |
| | C | 4 | Humid heat, cyclic test | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 4: Climatic loads ISO19453-4:2018 5.6 | Accredited only for volume≤(1 |

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| | | TANK | - | Item/Parameter | | |
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| | Nº | Test Object | Nº | Item/ Parameter | Standard or Method | Note |
| C | | Car | CHINA | NATIONAL ACCRED | ITATION SERVICE FOR CONFORMITY ASSESSMENT E OF ACCREDITATION CERTIFICATE | 000x1000x 1000)mm;t emperature :(- 40~150)°C; humidity:(25~98%)R H |
| |) | | 5 | Damp heat, steady- state test | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 4: Climatic loads ISO19453-4:2018 5.7 | Accredited only for volume≤(1 000x1000x 1000)mm;t emperature :(- 40~150)°C; humidity:(25~98%)R H |
| | | 6 | Dust and water protection | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 4: Climatic loads ISO19453-4:2018 5.10 | The test is carried out in No.250, Jiangchang san Road, Building 16 Headquarte r Economy Park Shibei Hi- Tech Park, | |
| 認 目 1 | No. CNA | S L5776 | | | 第 40 |)页共41页 |

| | Test Object | Item/Parameter | | | NT 4 |
|----|--|----------------|-----------------|--|---|
| N⁰ | | Nº | Item/ Parameter | Standard or Method | Note |
| | Car | | C | | Jing'an District, Shanghai, P.R.China |
| 23 | Road vehicles — Environmental conditions and testing for electrical and electronic equipment for drive system of electric propulsion vehicles | | Chemical loads | OF ACCREDITATION CERTIFICATE Road vehicles — Environmental conditions and testing for electrical and electronic equipment for drive system of electric propulsion vehicles - Part 5: Chemical loads ISO19453-5:2018 | Accredited only for volume≤(1 000x1000x 1000)mm;t emperature :(- 40~150)°C; humidity:(25~98%)R H |



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