

Name: Suzhou Sushi Guangbo Environment Reliability Laboratory Co., Ltd.

Address: No.51, Fangyuan Road, Suzhou Industrial Park, Jiangsu, China

Registration No. CNAS L3407

Accreditation Criteria: ISO/IEC 17025 and relevant requirements of CNAS

Effective Date: 2019-04-15 Expiry Date: 2023-06-13

SCHEDULE 3 ACCREDITED TESTING SCOPE

№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
1	Electric and Electronic products ,transport packages, Military equipment	1	Low Temperature	Environmental testing for electric and electronic products Part2:Test menthods Test A: Cold GB/T 2423.1-2008 IEC 60068-2-1: 2007	Accredited only for: 1. Volume:≤1 8m ³ 2. Temperatu re: -70℃～ room temperatur e
				Environmental test methods for military equipments Low Temperature GJB 150.4-1986	Accredited only for: 1. Volume:≤1 8m ³



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					2. Temperature: - 70°C~room temperature Used only for specified products
				Laboratory environmental test Methods for military materiel- part 4: Low Temperature GJB 150.4A-2009 Program I 、 II	Accredited only for: 1. Volume:≤18m ³ 2. Temperature: - 70°C~room temperature
				Environmental test for electronic equipments of warships Cold GJB 4.3-1983	Accredited only for: 1. Volume:≤18m ³ 2. Temperature



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					re: - 70°C~room temperature
				Environmental test for shipboard electronic equipments Low temperature storage tes GJB 4.4-1983	Accredited only for: 1. Volume:≤18m ³ 2. Temperature: - 70°C~room temperature
				Road vehicles-Environmental conditions and testing for electrical equipment Par4: Climatic loads GB/T 28046.4-2011 5.1.1 Low-temperature tests	Accredited only for: 1. Volume:≤18m ³ 2. Temperature: - 70°C~room temperature



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Road vehicles-Environmental conditions and testing for electrical equipment Par4: Climatic loads ISO 16750-4-2010 5.1.1 Low-temperature tests	Accredited only for: 1. Volume:≤18m ³ 2. Temperature: - 70°C~room temperature
				ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS PART TWO-LABORATORY TEST METHODS MIL-STD-810G-2008 502.5: Low-temperature Program I 、 II	Accredited only for: 1. Volume:≤18m ³ 2. Temperature: - 70°C~room temperature
				General Specification GMW 3172-2018 8.4.2 Low-temperature wake	Accredited only for: 1. Volume:≤18m ³ 2.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Temperature: - 70°C~room temperature
				General Specification GMW 3172-2012 8.4.2 Low-temperature wake	Accredited only for: 1. Volume:≤18m³ 2. Temperature: - 70°C~room temperature Used only for specified products
				Electric and Electronic Components in Motor Vehicles up to 3,5t General Requirements,Test Conditions and Tests VW 80000-2013 14.1 High temperature / low-temperature storage14.3 Low temperature work	Accredited only for: 1. Volume:≤18m³ 2. Temperature: re:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					- 70°C~room temperatur e
				Environmental Conditions and Test Procedures for Airborne Equipment RTCA-DO-160G-2010 Section4 Temperature and Altitude	Accredited only for: 1. Volume:≤1 8m ³ 2. Temperatu re: - 70°C~room temperatur e
				General specifications for military communication GJB 367A-2001 A01 Low Temperature tests	Accredited only for: 1. Volume:≤1 8m ³ 2. Temperatu re: - 70°C~room temperatur e
				Lithium-ion traction battery pack and system for electric vehicles Part 2:Test specification for high energy applications GB/T 31467.2-2015	Accredited only for:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					1. Volume:≤1 8m ³ 2. Temperature: - 70°C~room temperature
				Mechanical structures for electronic equipment tests for IEC 60917 and IEC 60297 Part 1:Climatic,mechanical tests and safety aspects for cabinets, racks, sub racks and chassis GB/T18663.1-2008 idt IEC 61587-1:2007 4.2 Low Temperature, High Temperature and damp heat (cyclic)	Accredited only for: 1. Volume:≤1 8m ³ 2. Temperature: - 70°C~room temperature
		2	Dry heat	Environmental testing for electric and electronic products Part2:Test methods Test B: Dry heat GB/T 2423.2-2008 IEC 60068-2-2: 2007	Accredited only for: 1. Volume:≤1 8m ³ 2. Temperature: re:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					room temperature ~150°C
				Environmental test methods for military equipments High Temperature GJB 150.3-1986	Accredited only for: 1. Volume: ≤18m³ 2. Temperature: room temperature ~150°C Used only for specified products
				Laboratory environmental test methods for military materiel- part 3: High Temperature GJB 150.3A-2009	Accredited only for: 1. Volume: ≤18m³ 2. Temperature: room temperature ~150°C



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Environmental test for electronic equipments of warships Dry heat GJB 4.2-1983	Accredited only for: 1. Volume:≤18m ³ 2. Temperature: room temperature~150°C
				Test methods for electronic and electrical component GJB 360A—1996 Methods 108 temperature lifetest	Accredited only for: 1. Volume:≤18m ³ 2. Temperature: room temperature~150°C Used only for specified products
				Test methods for electronic and electrical component GJB 360B—2009 Methods 108 temperature lifetest	Accredited only for: 1. Volume:≤1



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					8m ³ 2. Temperature: room temperature ~150°C
				Road vehicles-Environmental conditions and testing for electrical equipment Par4: Climatic loads GB/T 28046.4-2011 5.1.2 High-temperature tests	Accredited only for: 1. Volume:≤1 8m ³ 2. Temperature: room temperature ~150°C
				Road vehicles-Environmental conditions and testing for electrical equipment par4: Climatic loads 5.1.2 High-temperature tests ISO 16750-4-2010 5.1.2 High-temperature tests	Accredited only for: 1. Volume:≤1 8m ³ 2. Temperature: room temperature ~150°C



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS PART TWO-LABORATORY TEST METHODS MIL-STD-810G-2008 5.1.2 High-temperature	Accredited only for: 1. Volume: ≤18m ³ 2. Temperature: room temperature ~150°C
				Electric and Electronic Components in Motor Vehicles up to 3,5t General Requirements, Test Conditions and Tests VW 80000-2013 14.1 high-temperature / low-temperature storage 16.2 Life test-high-temperature endurance test	Accredited only for: 1. Volume: ≤18m ³ 2. Temperature: room temperature ~150°C
				Electric - General specification for electronic components - Environment / Durability GMW 3172-2018 9.4.1 High Temperature Degradation	Accredited only for: 1. Volume: ≤18m ³ 2. Temperature:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					room temperature~150°C
				Electric - General specification for electronic components - Environment / Durability GMW 3172-2012 9.4.1High Temperature Degradation	Accredited only for: 1. Volume:≤18m³ 2. Temperature: room temperature~150°C Used only for specified products
				Environmental Conditions and Test Procedures for Airborne Equipment RTCA-DO-160G-2010 Section4 Temperature and Altitude	Accredited only for: 1. Volume:≤18m³ 2. Temperature: room temperature~150°C



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				General specifications for military communication GJB 367A-2001 A02 High temperature	Accredited only for: 1. Volume:≤18m ³ 2. Temperature: room temperature ~150°C
				Lithium-ion traction battery pack and system for electric vehicles Part 2:Test specification for high energy applications GB/T 31467.2-2015	Accredited only for: 1. Volume:≤18m ³ 2. Temperature: room temperature ~150°C
				Mechanical structures for electronic equipment tests for IEC 60917 and IEC 60297 Part 1:Climatic,mechanical tests and safety aspects for cabinets, racks, sub racks and chassis GB/T 18663.1-2008 idt IEC 61587-1:2016 4.2Low Temperature, High Temperature and damp heat (cyclic)	Accredited only for: 1. Volume:≤18m ³ 2. Temperature:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					room temperature ~150°C
		3	Damp heat, steady state	Test methods for electronic and electrical component GJB 360A-1996 Methods 103 steady heat test	Accredited only for: 1. Volume: ≤18m³ 2. Temperature: 25°C~60°C 3. Humidity range: 20%RH~98%RH Used only for specified products
				Test methods for Electronic and electrical component parts Method GJB 360B-2009 Methods 103 steady heat test	Accredited only for: 1. Volume: ≤18m³ 2. Temperature: 25°C~60°C



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					3. Humidity range: 20%RH~98%RH。
				Road Vehicles-Envromental coditions and testing for electrical equipment Par4: Climatic loads GB/T 28046.4-2011 5.7 Damp heat steady-state test	Accredited only for: 1. Volume:≤18m ³ 2. Temperatu re: 25°C~60°C 3. Humidity range: 20%RH~98%RH。
				Road Vehicles-Envromental coditions and testing for electrical equipment par4: Climatic loads ISO 16750-4-2010 5.7 Damp heat steady-state test	Accredited only for: 1. Volume:≤18m ³ 2. Temperatu re: 25°C~60°C 3. Humidity



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					range: 20%RH~ 98%RH。
				Electric and Electronic Components in Motor Vehicles up to 3,5t General Requirements, Test Conditions and Tests VW 80000-2013 14.14 Humid heat, constant	Accredited only for: 1. Volume: ≤1 8m ³ 2. Temperature: 25°C~60°C 3. Humidity range: 20%RH~98%RH。
				Electric - General specification for electronic components - Environment / Durability GMW 3172-2018 9.4.6 Humid Heat Constant (HHCO)	Accredited only for: 1. Volume: ≤1 8m ³ 2. Temperature: 25°C~60°C 3. Humidity range:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					20%RH~98%RH。
				Electric - General specification for electronic components - Environment / Durability GMW 3172-2012 9.4.6 Humid Heat Constant (HHCO)	Accredited only for: 1. Volume:≤18m ³ 2. Temperature: 25°C~60°C 3. Humidity range: 20%RH~98%RH。 Used only for specified products
				Environmental testing for electric and electronic products Part2:Test menthods Test Cab :Damp heat,steady state GB/T 2423.3-2016 IEC 60068-2-78-2012	Accredited only for: 1. Volume:≤18m ³ 2. Temperature: 25°C~60°C 3.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Humidity range: 20%RH-98%RH
				Environmental testing for electric and electronic products Part2:Test menthods Test Cab :Damp heat,steady state GB/T 2423.3-2006 IEC 60068-2-78: 2001	Accredited only for: 1. Volume:≤18m ³ 2. Temperature: 25°C~60°C 3. Humidity range: 20%RH-98%RH Used only for specified products
				Environmental testing for electric and electronic products - Part 2: Tests -Test Cy: Damp heat, steady state, accelerated test primarily intended for components GB/T 2423.50-2012 IEC 60068-2-67: 1995	Accredited only for: 1. Volume:≤18m ³ 2. Temperature:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					25°C~60°C 3. Humidity range: 20%RH~ 98%RH。
				Environmental test for electronic equipments of warships Damp heat,steady state GJB 4.5-1983	Accredited only for: 1. Volume:≤1 8m³ 2. Temperatu re: 25°C~60°C 3. Humidity range: 20%RH~ 98%RH。
		4	Alternating hot and humid	Environmental testing for electric and electronic products-Part 2:test methods-test Db: Damp heat ,cyclic(12h+12h cycle) GB/T 2423.4-2008 IEC 60068-2-30: 2005	Accredited only for: 1. Volume:≤1 8m³ 2. Temperatu re: 20°C~90°C 3.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Humidity range: 20%RH~98%RH。
				Environmental testing for electric and electronic products part2:test methods-test Z/AD:composite temperature/humidity cyclic test GB/T 2423.34-2012 IEC 60068-2-38: 2009	Accredited only for: 1. Volume:≤18m³ 2. Temperature: 20°C~90°C 3. Humidity range: 20%RH~98%RH。
				Environmental test methods for military equipments Damp heat GJB 150.9-1986	Accredited only for: 1. Volume:≤18m³ 2. Temperature: 20°C~90°C 3. Humidity



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					range: 20%RH~ 98%RH。 Used only for specified products
				Laboratory environmental test Methods for military materiel- Damp heat GJB 150.9A-2009	Accredited only for: 1. Volume:≤1 8m ³ 2. Temperatu re: 20°C~90°C 3. Humidity range: 20%RH~ 98%RH。
				Environmental test for electronic equipments of warships Damp heat ,cycle GJB 4.6-1983	Accredited only for: 1. Volume:≤1 8m ³ 2. Temperatu re: 20°C~90°C



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					3. Humidity range: 20%RH~ 98%RH
				Test methods for electronic and electrical component parts test method GJB 360A-1996 Moisture resistance test method 106	Accredited only for: 1. Volume:≤1 8m ³ 2. Temperatu re: 20°C~90°C 3. Humidity range: 20%RH~ 98%RH Used only for specified products
				Test methods for electronic and electrical component parts test Method GJB 360B-2009 Moisture resistance test method 106	Accredited only for: 1. Volume:≤1 8m ³ 2. Temperatu



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					re: 20°C~90°C 3. Humidity range: 20%RH~ 98%RH
				Test Methods and Procedures for Microelectronics GJB 548B-2005 Method 1004.1 moisture	Accredited only for: 1. Volume:≤1 8m³ 2. Temperatu re: 20°C~90°C 3. Humidity range: 20%RH~ 98%RH
				Test methods for semiconductor discrete devices GJB 128A-1997 Method 1021 Moisture	Accredited only for: 1. Volume:≤1 8m³ 2. Temperatu re: 20°C~90°C



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					3. Humidity range: 20%RH~ 98%RH
				Test requirements for launch, upper-stage, and space vehicles GJB 1027A-2005 6.4.14.3 Qualification thermal cycling test of electric and electronic unit	Accredited only for: 1. Volume:≤1 8m ³ 2. Temperatu re: 20°C~90°C 3. Humidity range: 20%RH~ 98%RH
				Road vehicles-Environmental conditions and testing for electrical equipment Par4: Climatic loads 5.6 Humid heat, cycle test GB/T 28046.4-2011 5.6 Humid heat, cycle test	Accredited only for: 1. Volume:≤1 8m ³ 2. Temperatu re: 20°C~90°C 3. Humidity



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					range: 20%RH~ 98%RH
				Road vehicles-Environmental conditions and testing for electrical equipment Par4: Climatic loads 5.6 Humid heat, cycle test ISO 16750-4-2010 5.6 Humid heat, cyclic test	Accredited only for: 1. Volume:≤1 8m ³ 2. Temperatu re: 20°C~90°C 3. Humidity range: 20%RH~ 98%RH
				ENVIRONMENTAL ENGINEERING CONSIDERATIONSAND LABORATORY TESTS PART TWO-LABORATORY TEST METHODS MIL-STD-810G-2008 507.5: Humidity	Accredited only for: 1. Volume:≤1 8m ³ 2. Temperatu re: 20°C~90°C 3. Humidity range: 20%RH~



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					98%RH
				CHINA NATIONAL ACCREDITATION SERVICE FOR CONFORMITY ASSESSMENT SCHEDULE OF ACCREDITATION CERTIFICATE Electric and Electronic Components in Motor Vehicles up to 3,5t General Requirements, Test Conditions and Tests VW 80000-2013 14.8 Humid heat, cyclic 14.9 Heat cycle test (with frost)	Accredited only for: 1. Volume: ≤18m³ 2. Temperature: 20°C~90°C 3. Humidity range: 20%RH~98%RH
				Electric - General specification for electronic components - Environment / Durability GMW 3172-2018 9.4.5 Humid Heat Cyclic (HHC)	Accredited only for: 1. Volume: ≤18m³ 2. Temperature: 20°C~90°C 3. Humidity range: 20%RH~98%RH



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				CHINA NATIONAL ACCREDITATION SERVICE FOR CONFORMITY ASSESSMENT SCHEDULE OF ACCREDITATION CERTIFICATE Electric - General specification for electronic components - Environment / Durability GMW 3172-2012 9.4.5 Humid Heat Cyclic(HHC)	Accredited only for: 1. Volume: ≤18m³ 2. Temperature: 20°C~90°C 3. Humidity range: 20%RH~98%RH
				Environmental Conditions and Test Procedures for Airborne Equipment RTCA-DO-160G-2010-2010 Section 6 Temperature and altitude	Accredited only for: 1. Volume: ≤18m³ 2. Temperature: 20°C~90°C 3. Humidity range: 20%RH~98%RH
				General specifications for military communication GJB 367A-2001 A07 Humidity test	Accredited only for:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					1. Volume:≤18m³ 2. Temperature: 20°C~90°C 3. Humidity range: 20%RH~98%RH
				Lithium-ion traction battery pack and system for electric vehicles Part 3:Safety requirements and test methods GB/T31467.3-2015 7.8Temperature and Humidity cycle	Accredited only for: 1. Volume:≤18m³ 2. Temperature: 20°C~90°C 3. Humidity range: 20%RH~98%RH
				Mechanical structures for electronic equipment tests for IEC 60917 and IEC 60297 Part 1:Climatic,mechanical tests and safety aspects for cabinets, racks, sub racks and chassis GB/T18663.1-2008 idt IEC 61587-1:2007 4.2Low Temperature, High Temperature and damp heat (cyclic)	Accredited only for: 1. Volume:≤1



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					8m ³ 2. Temperature: 20°C~90°C 3. Humidity range: 20%RH- 98%RH
		5		Test methods for airborne suspension equipment GJB 1063A-2008 6.21 Temperature Shock Test	Accredited only for: 1. Volume:≤1 8m ³ 2. Temperature: -70°C~ +150°C
				General requirements and methods for airborne suspension test GJB1063- 1991 6.21 Temperature Shock Test	Accredited only for: 1. Volume:≤1 8m ³ 2. Temperature: -70°C~ +150°C



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Used only for specified products
				Lithium-ion traction battery pack and system for electric vehicles-Part 3: Safety requirements and test methods GB/T 31467.3-2015 7.7	Accredited only for: 1. Volume: $\leq 18\text{m}^3$ 2. Temperature: $-70^\circ\text{C} \sim +150^\circ\text{C}$
		6	Change of temperature	Environmental testing—Part 2: Test methods—Test N :Change of temperature GB/T 2423.22-2012 IEC 60068-2-14: 2009	Accredited only for: 1. Volume: $\leq 18\text{m}^3$ 2. Temperature: $-70^\circ\text{C} \sim 150^\circ\text{C}$ 3. Temperature change rate: $\leq 5^\circ\text{C}/\text{min}$



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№	Test Object	Item/Parameter		Standard or Method	Note
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				Test Methods and Procedures for Microelectronics GJB 548B-2005 Method 1010.1Temperature cycling	Accredited only for: 1. Volume:≤18m³ 2. Temperature: -70°C~150°C 3. Temperature change rate: ≤5°C/min。
				Test methods for semiconductor discrete devices GJB 128A-1997 Method 1051 (Air - air)	Accredited only for: 1. Volume:≤18m³ 2. Temperature: -70°C~150°C 3. Temperature change rate: ≤5°C/min。



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№	Test Object	Item/Parameter		Standard or Method	Note
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				Road vehicles-Environmental conditions and testing for electrical equipment par4: Climatic loads GB/T 28046.4-2011 5.2 temperature step test 5.3 temperature cycling tests	Accredited only for: 1. Volume:≤18m ³ 2. Temperature: -70°C~150°C 3. Temperature change rate: ≤5°C/min
				Road vehicles-Environmental conditions and testing for electrical equipment par4: Climatic loads ISO 16750-4-2010 5.2 temperature step test 5.3 temperature cycling tests	Accredited only for: 1. Volume:≤18m ³ 2. Temperature: -70°C~150°C 3. Temperature change rate: ≤5°C/min



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Basic environmental testing procedures Part 2: Tests Test N: Change of temperature JIS C 0025-1988	Accredited only for: 1. Volume:≤18m³ 2. Temperature: -70°C~150°C 3. Temperature change rate: ≤5°C/min 4. Humidity range: 20%-98%。
				A104C temperature cycling test method JESD22-A104C-2005	Accredited only for: 1. Volume:≤18m³ 2. Temperature: -70°C~150°C 3. Temperature change



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					rate: ≤5°C/min 。
				Electric - General specification for electronic components - Environment / Durability GMW 3172-2018 9.4.3 Power Temperature Cycle(PTC)	Accredited only for: 1. Volume:≤1 8m³ 2. Temperatu re: - 70°C~150 °C 3.Temperat ure change rate: ≤5°C/min 。
				Electric - General specification for electronic components - Environment / Durability GMW 3172-2012 9.4.3 Power Temperature Cycle(PTC)	Accredited only for: 1. Volume:≤1 8m³ 2. Temperatu re: - 70°C~150 °C 3.Temperat ure change

CHINA NATIONAL ACCREDITATION SERVICE FOR CONFORMITY ASSESSMENT
SCHEDULE OF ACCREDITATION CERTIFICATE



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		№	Item/ Parameter		
					rate: ≤5°C/min Used only for specified products
				Electric and Electronic Components in Motor Vehicles up to 3,5t General Requirements, Test Conditions and Tests VW 80000-2013 14.2 Incremental temperature test	Accredited only for: 1. Volume: ≤18m ³ 2. Temperature: -70°C~150°C 3. Temperature change rate: ≤5°C/min
				Environmental Conditions and Test Procedures for Airborne Equipment RTCA-DO-160G-2010 Section 5 Temperature Variation	Accredited only for: 1. Volume: ≤18m ³ 2. Temperature: -70°C~150°C



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					°C 3.Temperature change rate: ≤5°C/min 4.Humidity range: 20%-98%。
				UN Manual of Tests and Criteria Section 38.3 UN38.3(ST/SG/AC.10/11/Rev/Amend.1)-2013 38.3.4.2 Test T.2:Temperature test	Accredited only for: 1. Volume:≤18m³ 2. Temperature: -70°C~150°C 3.Temperature change rate: ≤5°C/min。
		7	Vibration	Vibration Testing of Electric Vehicle Batteries SAE J2380-2013	Accredited only for: Vibration frequency range: 2Hz~2500

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Hz, Maximum acceleratio n:1470m/s ² Maximum acceleratio n: 150g. Maximum displaceme nt: 76mm. Maximum load: 2000kg. Maximum thrust:≤196 kN.
				Environmental testing for electric and electronic products-Part2:Test methods Test Fc:Vibration(Sinusoidal) GB/T 2423.10-2008 IEC 60068-2-6: 1995	Accredited only for: Vibration frequency range: 2Hz~2500 Hz. Maximum acceleratio n:1470m/s ² Maximum acceleratio n: 150g.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Maximum displacement: 76mm. Maximum load: 2000kg. Maximum thrust: ≤196 kN.
				Environmental testing for electric and electronic products Part2: Test methods Test Fh : Vibration, broad-band random (digital control) and guidance GB/T 2423.56-2006 IEC 60068-2-64-1993	Accredited only for: Vibration frequency range: 2Hz~2500 Hz. Maximum acceleration: 1470m/s ² . Maximum acceleration: 150g. Maximum displacement: 76mm. Maximum load: 2000kg. Maximum thrust: ≤196



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					kN.
				Environmental testing for electric and electronic Products-Part2: Test methods Test Fi Mixed mode vibration GB/T 2423.58-2008 IEC 60068-2-81:2003	Accredited only for: Vibration frequency range: 2Hz~2500 Hz. Maximum acceleration: 1470m/s ² Maximum acceleration: 150g. Maximum displacement: 76mm. Maximum load: 2000kg. Maximum thrust: ≤196 kN.
				Mechanical vibration--Vibration testing requirements for shipboard equipment and machinery components GB/T 19845-2005 ISO 10055: 1996	Accredited only for: Vibration frequency range: 2Hz~2500



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Hz. Maximum acceleratio n:1470m/s ² Maximum acceleratio n: 150g. Maximum displaceme nt: 76mm. Maximum load: 2000kg. Maximum thrust:≤196 kN.
				Environmental test methods for military equipments Vibration test GJB 150.16-1986 Program I Program II Program III Program IV	Accredited only for: Vibration frequency range: 2Hz~2500 Hz. Maximum acceleratio n:1470m/s ² Maximum acceleratio n: 150g.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Maximum displacement: 76mm. Maximum load: 2000kg. Maximum thrust: ≤196 kN. Used only for specified products
				Laboratory environmental test Methods for military materiel- part 16 vibration test GJB 150.16A-2009 Program I Program III Program IV	Accredited only for: Vibration frequency range: 2Hz~2500 Hz. Maximum acceleration: 1470m/s ² . Maximum acceleration: 150g. Maximum displacement: 76mm. Maximum



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					load: 2000kg. Maximum thrust:≤196 kN.
				Environmental test methods for military equipments Aircratt Gunfire vibration test GJB 150.20-1986	Accredited only for: Vibration frequency range: 2Hz~2500 Hz. Maximum acceleration: 1470m/s ² . Maximum acceleration: 150g. Maximum displacement: 76mm. Maximum load: 2000kg. Maximum thrust:≤196 kN. Used only for specified



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					products
				Laboratory environmental test methods for military materiel Part20: Gunfire vibration test GJB 150.20A -2009	Accredited only for: Vibration frequency range: 2Hz~2500 Hz. Maximum acceleration: 1470m/s ² Maximum acceleration: 150g. Maximum displacement: 76mm. Maximum load: 2000kg. Maximum thrust: ≤196 kN.
				Environmental test for electronic equipments of warships Vibration GJB 4.7-1983	Accredited only for: Vibration frequency range: 2Hz~2500



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Hz. Maximum acceleration: 1470m/s ² Maximum acceleration: 150g. Maximum displacement: 76mm. Maximum load: 2000kg. Maximum thrust: ≤196 kN.
				Test methods standard electronic and electric component parts GJB 360A-1996 Methods 201 Low-frequency Vibration Methods 214 Random Vibration	Accredited only for: Vibration frequency range: 2Hz~2500 Hz. Maximum acceleration: 1470m/s ² Maximum acceleration: 150g.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Maximum displacement: 76mm. Maximum load: 2000kg. Maximum thrust: ≤196 kN. Used only for specified products
				Test methods for Electronic and electrical component parts Method GJB 360B-2009 Method 201 Low-frequency Vibration Method 204 High-frequency Vibration	Accredited only for: Vibration frequency range: 2Hz~2500 Hz. Maximum acceleration: 1470m/s ² . Maximum acceleration: 150g. Maximum displacement: 76mm. Maximum



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					load: 2000kg. Maximum thrust:≤196 kN.
				Test Methods and Procedures for Microelectronics GJB 548B-2005 Method 2007 sweep frequency	Accredited only for: Vibration frequency range: 2Hz~2500 Hz. Maximum acceleration: 1470m/s ² . Maximum acceleration: 150g. Maximum displacement: 76mm. Maximum load: 2000kg. Maximum thrust:≤196 kN.
				Test methods for semiconductor discrete devices GJB 128A-1997 Method 2056 sweep frequency	Accredited only for: Vibration



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					frequency range: 2Hz~2500 Hz. Maximum acceleration: 1470m/s ² . Maximum acceleration: 150g. Maximum displacement: 76mm. Maximum load: 2000kg. Maximum thrust: ≤196 kN.
				Test requirements for launch, upper-stage, and space vehicles GJB 1027A-2005 6.4.5 Unit qualification vibration test 7.4.4 Unit acceptance vibration test	Accredited only for: Vibration frequency range: 2Hz~2500 Hz. Maximum acceleration: 1470m/s ² .



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Maximum acceleration: 150g. Maximum displacement: 76mm. Maximum load: 2000kg. Maximum thrust: ≤196 kN.
				Road vehicles-Environmental conditions and testing for electrical equipment part 3: Mechanical loads GB/T 28046.3-2011 4.1 vibration	VAccredited only for: Vibration frequency range: 2Hz~2500 Hz. Maximum acceleration: 1470m/s ² . Maximum acceleration: 150g. Maximum displacement: 76mm. Maximum load:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					2000kg. Maximum thrust: ≤196 kN.
				Road vehicles-Environmental conditions and testing for electrical equipment par3: Mechanical loads ISO 16750-3: 2007 4.1 vibration	Accredited only for: Vibration frequency range: 2Hz~2500 Hz. Maximum acceleration: 1470m/s ² Maximum acceleration: 150g. Maximum displacement: 76mm. Maximum load: 2000kg. Maximum thrust: ≤196 kN.
				Road vehicles-Environmental conditions and testing for electrical equipment par3: Mechanical loads ISO 16750-3: 2012 4.1 vibration	Accredited only for: Vibration frequency



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					range: 2Hz~2500 Hz. Maximum acceleratio n:1470m/s ² . Maximum acceleratio n: 150g. Maximum displaceme nt: 76mm. Maximum load: 2000kg. Maximum thrust:≤196 kN.
				ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS PART TWO-LABORATORY TEST METHODS MIL-STD-810G-2008 514.6: VibrationProgram I ProgramⅢProgram IV	Accredited only for: Vibration frequency range: 2Hz~2500 Hz. Maximum acceleratio n:1470m/s ² . Maximum



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					acceleration: 150g. Maximum displacement: 76mm. Maximum load: 2000kg. Maximum thrust: ≤196 kN.
				Test method standard, electronic and electrical component parts MIL-STD-202G 2002 Method 204D Vibration, High-frequency	Accredited only for: Vibration frequency range: 2Hz~2500 Hz. Maximum acceleration: 1470m/s ² . Maximum acceleration: 150g. Maximum displacement: 76mm. Maximum load: 2000kg.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Maximum thrust: ≤196 kN.
				General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172-2018 6.8 Vibration Transmissibility Demonstration	Accredited only for: Vibration frequency range: 2Hz~2500 Hz. Maximum acceleration: 1470m/s ² Maximum acceleration: 150g. Maximum displacement: 76mm. Maximum load: 2000kg. Maximum thrust: ≤196 kN.
				General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172-2012 6.8 Vibration Transmissibility Demonstration	Accredited only for: Vibration frequency range:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					2Hz~2500 Hz. Maximum acceleration: 1470m/s ² . Maximum acceleration: 150g. Maximum displacement: 76mm. Maximum load: 2000kg. Maximum thrust: ≤196 kN. Used only for specified products
				Electric and Electronic Components in Motor Vehicles up to 3,5t General Requirements, Test Conditions and Tests VW 80000-2013 13.4 Vibration test	Accredited only for: Vibration frequency range: 2Hz~2500 Hz. Maximum acceleration



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					n:1470m/s ² · Maximum acceleration n: 150g. Maximum displacement: 76mm. Maximum load: 2000kg. Maximum thrust:≤196 kN.
				UN Manual of Tests and Criteria Section 38.3 UN38.3(ST/SG/AC.10/11/Rev/Amend.1)-2013 38.3.4.3 Test T.3: Vibration	Accredited only for: Vibration frequency range: 2Hz~2500 Hz. Maximum acceleration n:1470m/s ² · Maximum acceleration n: 150g. Maximum displacement: 76mm.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Maximum load: 2000kg. Maximum thrust:≤196 kN.
				General specifications for military communication GJB 367A-2001 A05 Vibration test	Accredited only for: Vibration frequency range: 2Hz~2500 Hz. Maximum acceleration: 1470m/s ² . Maximum acceleration: 150g. Maximum displacement: 76mm. Maximum load: 2000kg. Maximum thrust:≤196 kN.
				Electrical relays Part 21:Vibration,shock,bump and seismic tests on measuring relays and protection equipment Section one: Vibration tests(sinusoidal) GB/T	Accredited only for:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				11287-2000 idt IEC 255-21-1:1988	Vibration frequency range: 2Hz~2500 Hz. Maximum acceleration: 1470m/s ² . Maximum acceleration: 150g. Maximum displacement: 76mm. Maximum load: 2000kg. Maximum thrust: ≤196 kN.
				Mechanical structures for electronic equipment tests for IEC 60917 and IEC 60297 Part 1: Climatic, mechanical tests and safety aspects for cabinets, racks, sub racks and chassis GB/T18663.1-2008 idt IEC 61587-1:2007 5.3 Dynamic Mechanical Load Test	Accredited only for: Vibration frequency range: 2Hz~2500 Hz. Maximum acceleration: 1470m/s ²



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Maximum acceleration: 150g. Maximum displacement: 76mm. Maximum load: 2000kg. Maximum thrust: ≤196 kN.
				Test methods for airborne suspension equipment GJB1063A-2008 6.6 Vibration Test	Accredited only for: Vibration frequency range: 2Hz~2500 Hz. Maximum acceleration: 1470m/s ² Maximum acceleration: 150g. Maximum displacement: 76mm. Maximum



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					load: 2000kg. Maximum thrust:≤196 kN.
					Accredited only for: Vibration frequency range: 2Hz~2500 Hz. Maximum acceleratio n:1470m/s ²
				Test methods for airborne suspension equipment GJB1063-1991 6.6 Vibration Test	6.6 Vibration Test Maximum acceleratio n: 150g. Maximum displaceme nt: 76mm. Maximum load: 2000kg. Maximum thrust:≤196 kN.
				Mechanical Shock and Vibration Durability Test-Thermal Under Hood Procedure Specification GMW17010-2016	Accredited only for: Vibration



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					frequency range: 2Hz~2500 Hz. Maximum acceleration: 1470m/s ² . Maximum acceleration: 150g. Maximum displacement: 76mm. Maximum load: 2000kg. Maximum thrust: ≤196 kN.
				Mechanical Shock and Vibration Durability Test-Thermal Under Hood Procedure Specification GMW17010-2015	Accredited only for: Vibration frequency range: 2Hz~2500 Hz. Maximum acceleration: 1470m/s ² .



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Maximum acceleration: 150g. Maximum displacement: 76mm. Maximum load: 2000kg. Maximum thrust: ≤196 kN.
		8	Shock	Environmental testing for electric and electronic products Part2: Test methods Test Ea and guidance: Shock GB/T 2423.5-1995 IEC 60068-2-27: 1987	Only: half sine, back peak sawtooth pulse width: 0.3ms-30ms 1. Maximum acceleration: 1470m/s². 2. Maximum displacement: 76mm. 3. Maximum



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Environmental test methods for military equipments Shock GJB 150.18-1986 A test, the second test, the test five or six test	load: 2000kg. Only: half sine, back peak sawtooth pulse width: 0.3ms- 30ms 1. Maximum acceleration: 1470m/s². 2. Maximum displacement: 76mm. 3. Maximum load: 2000kg. Used only for specified products
				Laboratory environmental test Methods for military materiel- part 18 Shock GJB 150.18A-2009 Procedure I ,Procedure II ,Procedure III, Procedure IV, Procedure X	Only: half sine, back peak sawtooth



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					pulse width: 0.3ms-30ms 1. Maximum acceleration: 1470m/s². 2. Maximum displacement: 76mm. 3. Maximum load: 2000kg.
				Test method standard electronic and electrical component parts GJB 360A-1996 Method 213 Shock	Only: half sine, back peak sawtooth pulse width: 0.3ms-30ms 1. Maximum acceleration: 1470m/s². 2.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Maximum displacement: 76mm. 3. Maximum load: 2000kg. Used only for specified products
				Test methods for Electronic and electrical component parts Method GJB 360B-2009 Method 213 Shock	Only: half sine, back peak sawtooth pulse width: 0.3ms-30ms 1. Maximum acceleration: 1470m/s². 2. Maximum displacement: 76mm. 3. Maximum load:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					2000kg.
				Road vehicles-Environmental conditions and testing for electrical equipment part3: Mechanical loads GB/T 28046.3-2011 4.2 Mechanical Shock	Only: half sine, back peak sawtooth pulse width: 0.3ms-30ms 1. Maximum acceleration: 1470m/s ² . 2. Maximum displacement: 76mm. 3. Maximum load: 2000kg.
				Road vehicles-Environmental conditions and testing for electrical equipment part3: Mechanical loads ISO 16750-3:2007 4.2 Mechanical Shock	Only: half sine, back peak sawtooth pulse width: 0.3ms-30ms



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					1. Maximum acceleration: 1470m/s². 2. Maximum displacement: 76mm. 3. Maximum load: 2000kg.
				Road vehicles-Environmental conditions and testing for electrical equipment part3: Mechanical loads ISO 16750-3:2012 4.2 Mechanical Shock	Only: half sine, back peak sawtooth pulse width: 0.3ms-30ms 1. Maximum acceleration: 1470m/s². 2. Maximum displacement: 76mm. 3.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Maximum load: 2000kg.
				Test requirements for launch, upper-stage, and space vehicles GJB 1027A-2005 6.4.7 Unit qualification shock test 7.4.6 Unit acceptance shock test	Only: half sine, back peak sawtooth pulse width: 0.3ms-30ms 1. Maximum acceleration: 1470m/s ² . 2. Maximum displacement: 76mm. 3. Maximum load: 2000kg.
				General specifications for military communication equipment GJB 367A-2001 A04 shock	Only: half sine, back peak sawtooth pulse width: 0.3ms-



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					30ms 1. Maximum acceleration: 1470m/s². 2. Maximum displacement: 76mm. 3. Maximum load: 2000kg.
				Shock and bump tests on measuring relays and protection equipment GB/T 14537-1993 idt IEC 255-21-2	Only: half sine, back peak sawtooth pulse width: 0.3ms-30ms 1. Maximum acceleration: 1470m/s². 2. Maximum displacement: 76mm.



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		№	Item/ Parameter		
					3. Maximum load: 2000kg.
				Mechanical structures for electronic equipment tests for IEC 60917 and IEC 60297 Part 1:Climatic,mechanical tests and safety aspects for cabinets, racks, sub racks and chassis GB/T18663.1-2008 idt IEC 61587-1:2007 5.3Dynamic Mechanical Load Test	Only: half sine, back peak sawtooth pulse width: 0.3ms-30ms 1. Maximum acceleration: 1470m/s². 2. Maximum displacement: 76mm. 3. Maximum load: 2000kg.
				Test methods for airborne suspension equipment GJB1063A-2008 6.7 Shock Test	Only: half sine, back peak sawtooth pulse width:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					0.3ms-30ms 1. Maximum acceleration: 1470m/s². 2. Maximum displacement: 76mm. 3. Maximum load: 2000kg.
				General requirements and methods for airborne suspension test GJB1063-1991 6.7 Shock Test	Only: half sine, back peak sawtooth pulse width: 0.3ms-30ms 1. Maximum acceleration: 1470m/s². 2. Maximum displacement



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					nt: 76mm. 3. Maximum load: 2000kg.
				Mechanical Shock and Vibration Durability Test-Thermal Under Hood Procedure Specification GMW17010-2016	Only: half sine, back peak sawtooth pulse width: 0.3ms-30ms 1. Maximum acceleration: 1470m/s ² . 2. Maximum displacement: 76mm. 3. Maximum load: 2000kg.
				Mechanical Shock and Vibration Durability Test-Thermal Under Hood Procedure Specification GMW17010-2015	Only: half sine, back peak sawtooth pulse



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					width: 0.3ms- 30ms 1. Maximum acceleratio n: 1470m/s². 2. Maximum displaceme nt: 76mm. 3. Maximum load: 2000kg.
				Verification Of Requirements For Side Impact/Roof Rail Airbag Modules GMW 3118-2012 3.2.1.2.1 dynamic shock test	Only: half sine, back peak sawtooth pulse width: 0.3ms- 30ms 1. Maximum acceleratio n: 1470m/s². 2. Maximum



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					displacement: 76mm. 3. Maximum load: 2000kg.
		9	Environmental stress screening	Method of environmental stress screening for electronic products GJB 1032-1990	Accredited only for: 1. Vibration frequency range: 2Hz~2500 Hz. 2. Maximum speed: 2m/s. 3. Maximum acceleration: 1470m/s². 4. Maximum displacement: 76mm. 5. Maximum load: 2000kg.



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					6. Volume: ≤18 m ³ . 7. Temperature: - 70 °C ~ 150 °C. 8. Temperature change rate: ≤5 °C / min. 9. Humidity range: 20%RH-98%RH
		10	Temperature/humidity /vibration combined test	Environmental testing for electric products Part 2:Test methods-Test Z/AFc: Combined cold/vibration(sinusoidal) tests for both heat-dissipating and non-heat-dissipating specimens GB/T 2423.35-2005 IEC 60068-2-50:1983	Accredited only for: 1. Vibration frequency range: 2Hz~2500 Hz. 2. Maximum speed: 2m/s. 3. Maximum acceleration



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Environmental testing for electric products Part 2:Test methods-Test Z/BFc: Combined dry heat/vibration(sinusoidal) tests for both heat-dissipating and non-heat-dissipating specimens GB/T 2423.36-2005 IDT IEC 60068-2-51:1983	n: 1470m/s². 4. Maximum displacement: 76mm. 5. Maximum load: 2000kg. 6. Volume: ≤18 m³. 7. Temperature: -70 °C ~ 150 °C. 8. Temperature change rate: ≤5 °C / min. 9. Humidity range: 20%RH-98%RH Accredited only for: 1. Vibration frequency



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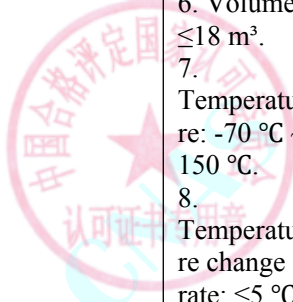
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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					range: 2Hz~2500 Hz. 2. Maximum speed: 2m/s. 3. Maximum acceleratio n: 1470m/s². 4. Maximum displaceme nt: 76mm. 5. Maximum load: 2000kg. 6. Volume: ≤18 m³. 7. Temperatu re: -70 °C ~ 150 °C. 8. Temperatu re change rate: ≤5 °C / min.

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					9. Humidity range: 20%RH- 98%RH
					Accredited only for: 1. Vibration frequency range: 2Hz~2500 Hz. 2. Maximum speed: 2m/s. 3. Maximum acceleratio n: 1470m/s². 4. Maximum displaceme nt: 76mm. 5. Maximum load: 2000kg. 6. Volume:
				Reliability testing for qualification and production acceptance GJB 899-1990	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					≤18 m³. 7. Temperature: -70 °C ~ 150 °C. 8. Temperature change rate: ≤5 °C / min. 9. Humidity range: 20%RH-98%RH Used only for specified products
				Reliability testing for qualification and production acceptance GJB 899A-2009	Accredited only for: 1. Vibration frequency range: 2Hz~2500 Hz. 2. Maximum speed: 2m/s.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					3. Maximum acceleration: 1470m/s². 4. Maximum displacement: 76mm. 5. Maximum load: 2000kg. 6. Volume: ≤18 m³. 7. Temperature: -70 °C ~ 150 °C. 8. Temperature change rate: ≤5 °C / min. 9. Humidity range: 20%RH-98%RH
				Reliability growth test GJB 1407-1992	Accredited only for:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					1. Vibration frequency range: 2Hz~2500 Hz. 2. Maximum speed: 2m/s. 3. Maximum acceleration: 1470m/s². 4. Maximum displacement: 76mm. 5. Maximum load: 2000kg. 6. Volume: ≤18 m³. 7. Temperature: -70 °C ~ 150 °C. 8. Temperature

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					re change rate: ≤5 °C / min. 9. Humidity range: 20%RH-98%RH
				General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172-2018 9.3.1 Vibration with Thermal Cycling	Accredited only for: 1. Vibration frequency range: 2Hz~2500 Hz. 2. Maximum speed: 2m/s. 3. Maximum acceleration: 1470m/s². 4. Maximum displacement: 76mm. 5. Maximum



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					load: 2000kg. 6. Volume: ≤18 m³. 7. Temperatu re: -70 °C ~ 150 °C. 8. Temperatu re change rate: ≤5 °C / min. 9. Humidity range: 20%RH- 98%RH
				General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172-2012 9.3.1 Vibration with Thermal Cycling	Accredited only for: 1. Vibration frequency range: 2Hz~2500 Hz. 2. Maximum speed: 2m/s. 3.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Maximum acceleration: 1470m/s². 4. Maximum displacement: 76mm. 5. Maximum load: 2000kg. 6. Volume: ≤18 m³. 7. Temperature: -70 °C ~ 150 °C. 8. Temperature change rate: ≤5 °C / min. 9. Humidity range: 20%RH-98%RH Used only for specified



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				General specifications for military communication GJB 367A-2001 4.7.51 reliability Appendix BReliability Test Methods	products Accredited only for: 1. Vibration frequency range: 2Hz~2500 Hz. 2. Maximum speed: 2m/s. 3. Maximum acceleration: 1470m/s². 4. Maximum displacement: 76mm. 5. Maximum load: 2000kg. 6. Volume: ≤18 m³. 7. Temperatu



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					re: -70 °C ~ 150 °C. 8. Temperature change rate: ≤5 °C / min. 9. Humidity range: 20%RH-98%RH
				Test methods for airborne suspension equipment 6.6.2.4. Temperature and Vibration Combined Test GJB1063A-2008	Accredited only for: 1. Vibration frequency range: 2Hz~2500 Hz. 2. Maximum speed: 2m/s. 3. Maximum acceleration: 1470m/s². 4. Maximum



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					displacement: 76mm. 5. Maximum load: 2000kg. 6. Volume: ≤18 m³. 7. Temperature: -70 °C ~ 150 °C. 8. Temperature change rate: ≤5 °C / min. 9. Humidity range: 20%RH-98%RH
				General requirements and methods for airborne suspension test GJB1063-1991 6.6.2.4.Temperature and Vibration Combined Test	Accredited only for: 1. Vibration frequency range: 2Hz~2500 Hz. 2.



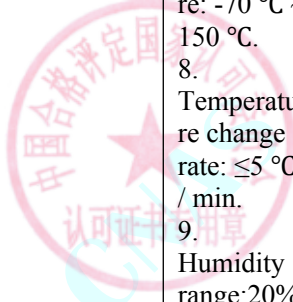
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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Maximum speed: 2m/s. 3. Maximum acceleration: 1470m/s². 4. Maximum displacement: 76mm. 5. Maximum load: 2000kg. 6. Volume: ≤18 m³. 7. Temperature: -70 °C ~ 150 °C. 8. Temperature change rate: ≤5 °C / min. 9. Humidity range:20% RH-

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Verification Of Requirements For Side Impact/Roof Rail Airbag Modules GMW 3118-2012 3.2.1.2.2 vibration/temperature cycle test	98%RH Accredited only for: 1. Vibration frequency range: 2Hz~2500 Hz. 2. Maximum speed: 2m/s. 3. Maximum acceleration: 1470m/s ² . 4. Maximum displacement: 76mm. 5. Maximum load: 2000kg. 6. Volume: ≤18 m ³ . 7. Temperatu



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					re: -70 °C ~ 150 °C. 8. Temperature change rate: ≤ 5 °C / min. 9. Humidity range: 20%RH-98%RH
2	Transport packages	1	Sinusoidavibration at constand frequency	Packaging-Basic tests for transport packages-Part7: Sinusoidal vibration test method at constant frequency GB/T 4857.7-2005 ISO 2247: 2000.MOD	Accredited only for: 1. Vibration frequency range: 2Hz~2500 Hz. 2. Maximum acceleration: 1470m/s^2 . 3. Maximum displacement: 76mm. 4. Maximum



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					load: 2000kg.
		2	Sinusoidavibration at Variable frequency	Packaging-Basic tests for transport packages-Part10: Sinusoidal vibration test method using at variable vibration frequency GB/T 4857.10-2005 ISO 8318: 2000.MOD	Accredited only for: 1. Vibration frequency range: 2Hz~2500 Hz. 2. Maximum acceleratio n: 1470m/s². 3. Maximum displaceme nt: 76mm. 4. Maximum load: 2000kg.
		3	Random vibration test method	Packaging-Basic tests for transport packages-Part10:Random vibration test method GB/T 4857.23-2012	Accredited only for: 1. Vibration frequency range: 2Hz~2500 Hz.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					2. Maximum acceleration: 1470m/s ² . 3. Maximum displacement: 76mm. 4. Maximum load: 2000kg.
3	Equipment of nuclear power station	1	Vibration sine-beat	Environmental testing procedures for electric and electronic products Part2:Test methods Test Fe: Vibration—sine-beat method GB/ T2423.49-1997 IEC 60068-2-59: 1990	Accredited only for: 1. Vibration frequency range: 2Hz~2500 Hz. 2. Maximum acceleration: 1470m/s ² . 3. Maximum displacement: 76mm. 4.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Maximum load: 2000kg.
		2	Seismic test	Environmental testing procedures for electric and electronic products Part3:Test guidance Seismic test method GB/ T 2424.25-2000 IEC 60068-3-3: 1991	Accredited only for: 1. Vibration frequency range: 2Hz~2500 Hz. 2. Maximum acceleration: 1470m/s². 3. Maximum displacement: 76mm. 4. Maximum load: 2000kg.
				The guidebook of the atomic equipments anti-earthquake test (1995-10-07) (1995-10-07) HAF.J0053	Accredited only for: 1. Vibration frequency range: 2Hz~2500



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Hz. 2. Maximum acceleration: 1470m/s ² . 3. Maximum displacement: 76mm. 4. Maximum load: 2000kg.
4	Railway application	1	Vibration	Railway application - Rolling stock equipment-Shock and vibration tests GB/T 21563-2008	Accredited only for: 1. Vibration frequency range: 2Hz~2500 Hz. 2. Maximum acceleration: 1470m/s ² . 3. Maximum displacement: 76mm.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					4. Maximum load: 2000kg.
				Railway applications-Electronic equipments used on rail vehicles GB/T 25119-2010	Accredited only for: 1. Vibration frequency range: 2Hz~2500 Hz. 2. Maximum acceleration: 1470m/s². 3. Maximum displacement: 76mm. 4. Maximum load: 2000kg.
				Railway application - Rolling stock equipment shock and vibration tests TB/T 3058-2002	Accredited only for: 1. Vibration frequency range:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					2Hz~2500 Hz. 2. Maximum acceleration: 1470m/s². 3. Maximum displacement: 76mm. 4. Maximum load: 2000kg.
				Air condition unit railway passenger car TB/T 1804-2009	Accredited only for: 1. Vibration frequency range: 2Hz~2500 Hz. 2. Maximum acceleration: 1470m/s². 3. Maximum displacement



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					nt: 76mm. 4. Maximum load: 2000kg.
				CHINA NATIONAL ACCREDITATION SERVICE FOR CONFORMITY ASSESSMENT SCHEDULE OF ACCREDITATION CERTIFICATE TB/T 3021-2001 IEC 60571: 1998	Accredited only for: 1. Vibration frequency range: 2Hz~2500 Hz. 2. Maximum acceleratio n: 1470m/s². 3. Maximum displaceme nt: 76mm. 4. Maximum load: 2000kg.
				Railway application - Rolling stock equipment-Shock and vibration tests IEC 61373(Edition 2.0) 2010-05	Accredited only for: 1. Vibration frequency

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					range: 2Hz~2500 Hz. 2. Maximum acceleratio n: 1470m/s². 3. Maximum displaceme nt: 76mm. 4. Maximum load: 2000kg.
				Railway application - Rolling stock equipment-Shock and vibration tests BS EN 61373: 2010	Accredited only for: 1. Vibration frequency range: 2Hz~2500 Hz. 2. Maximum acceleratio n: 1470m/s². 3. Maximum



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					displacement: 76mm. 4. Maximum load: 2000kg.
				Rolling stock equipment-Shock and vibration tests JIS E 4031:2008	Accredited only for: 1. Vibration frequency range: 2Hz~2500 Hz. 2. Maximum acceleration: 1470m/s ² . 3. Maximum displacement: 76mm. 4. Maximum load: 2000kg.
		2	Shock	Railway application - Rolling stock equipment-Shock and vibration tests GB/T 21563-2008	Accredited only for: waveform: half sine



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					wave Pulse duration: no more than 30ms 1. Maximum acceleratio n: 1470m/s ² . 2. Maximum displaceme nt: 76mm. 3. Maximum load: 2000kg.
				Railway applications-Electronic equipments used on rail vehicles GB/T 25119-2010	Accredited only for: waveform: half sine wave Pulse duration: no more than 30ms 1. Maximum acceleratio n:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					1470m/s². 2. Maximum displacement: 76mm. 3. Maximum load: 2000kg.
				Railway application - Rolling stock equipment shock and vibration tests TB/T 3058-2002	Accredited only for: waveform: half sine wave Pulse duration: no more than 30ms 1. Maximum acceleration: 1470m/s². 2. Maximum displacement: 76mm. 3. Maximum load: 2000kg.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Rolling stock electric equipment TB/T 3021-2001 IEC 60571: 1998	Accredited only for: waveform: half sine wave Pulse duration: no more than 30ms 1. Maximum acceleration: 1470m/s ² . 2. Maximum displacement: 76mm. 3. Maximum load: 2000kg.
				railway rolling stock components shock test methods TB/T 2988-2000	Accredited only for: waveform: half sine wave Pulse duration: no more than 30ms



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					1. Maximum acceleration: 1470m/s². 2. Maximum displacement: 76mm. 3. Maximum load: 2000kg.
				Railway application - Rolling stock equipment-Shock and vibration tests IEC 61373(Edition 2.0) 2010-05	Accredited only for: waveform: half sine wave Pulse duration: no more than 30ms 1. Maximum acceleration: 1470m/s². 2. Maximum displacement: 76mm.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					3. Maximum load: 2000kg.
				Railway applications - Railway stock equipment - Shock and vibration tests BS EN 61373: 2010	Accredited only for: waveform: half sine wave Pulse duration: no more than 30ms 1. Maximum acceleration: 1470m/s ² . 2. Maximum displacement: 76mm. 3. Maximum load: 2000kg.
				Rolling stock equipment-Shock and vibration tests JIS E 4031:2008	Accredited only for: waveform: half sine wave



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Pulse duration: no more than 30ms 1. Maximum acceleration: 1470m/s². 2. Maximum displacement: 76mm. 3. Maximum load: 2000kg.
5		1	Pretreatment cycle	Lithium-ion traction battery pack and system for electric vehicles-Part 1: Test specification for high power applications GB/T 31467.1-2015 6.1	Single channel operation mode, voltage output range: (0~1000) VDC; Single-channel continuous current



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					output range: (- 500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (-



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					600 ~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
				Lithium-ion traction battery pack and system for electric vehicles-Part 2: Test specification for high energy applications GB/T 31467.2-2015 6.1	Single channel operation mode, voltage output range: (0~1000) VDC; Single- channel continuous current output range: (500~500) A;



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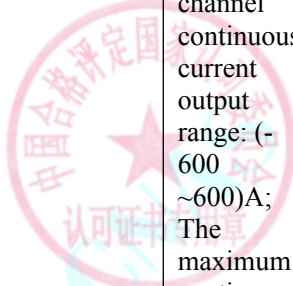
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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (-600 ~600)A; The maximum continuous dc output

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					power of two channels is 250KW, no time limit.
		2	Standard cycle	Lithium-ion traction battery pack and system for electric vehicles-Part 1: Test specification for high power applications GB/T 31467.1-2015 6.2	Single channel operation mode, voltage output range: (0~1000) VDC; Single-channel continuous current output range: (500~500) A; The maximum continuous dc output power of single



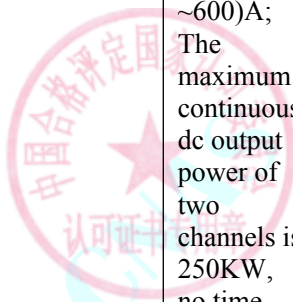
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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (-600 ~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Lithium-ion traction battery pack and system for electric vehicles-Part 2: Test specification for high energy applications GB/T 31467.2-2015 6.2	Single channel operation mode, voltage output range: (0~1000) VDC; Single-channel continuous current output range: (- 500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					operation mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (-600~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
		3	Capacity and energy test at room temperature	Lithium-ion traction battery pack and system for electric vehicles-Part 1: Test specification for high power applications GB/T 31467.1-2015 7.1.2	Single channel operation mode, voltage output



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					range: (0~1000) VDC; Single- channel continuous current output range: (- - 500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					DC; Double channel continuous current output range: (- 600 ~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
				Lithium-ion traction battery pack and system for electric vehicles-Part 2: Test specification for high energy applications GB/T 31467.2-2015 7.1.2	Single channel operation mode, voltage output range: (0~1000) VDC; Single- channel



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					continuous current output range: (- 500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current



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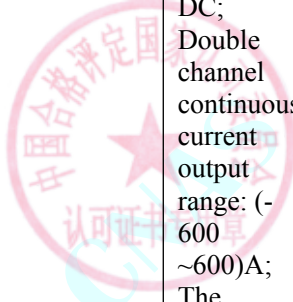
№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					output range: (-600 ~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
		4	Energy and capacity test at high temperature	Lithium-ion traction battery pack and system for electric vehicles-Part 1: Test specification for high power applications GB/T 31467.1-2015 7.1.3	Single channel operation mode, voltage output range: (0~1000) VDC; Single-channel continuous current output range: (



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (-600 ~600)A; The maximum

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					continuous dc output power of two channels is 250KW, no time limit.
				Lithium-ion traction battery pack and system for electric vehicles-Part 2: Test specification for high energy applications GB/T 31467.2-2015 7.1.3	Single channel operation mode, voltage output range: (0~1000) VDC; Single-channel continuous current output range: (- 500~500) A; The maximum continuous dc output



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (-600~600)A; The maximum continuous dc output power of two channels is 250KW,



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					no time limit.
		5	Energy and capacity test at low temperature	Lithium-ion traction battery pack and system for electric vehicles-Part 1: Test specification for high power applications GB/T 31467.1-2015 7.1.4	Single channel operation mode, voltage output range: (0~1000) VDC; Single-channel continuous current output range: (- 500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (-600~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
				Lithium-ion traction battery pack and system for electric vehicles-Part 2: Test specification for high energy applications GB/T 31467.2-2015 7.1.4	Single channel operation mode,



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					voltage output range: (0~1000) VDC; Single- channel continuous current output range: (- - 500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					range: (58~750)V DC; Double channel continuous current output range: (- 600 ~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
		6	Power and internal resistance	Lithium-ion traction battery pack and system for electric vehicles-Part 1: Test specification for high power applications GB/T 31467.1-2015 7.2	Single channel operation mode, voltage output range: (0~1000) VDC;



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Single-channel continuous current output range: (- 500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double channel



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					continuous current output range: (-600~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
				Lithium-ion traction battery pack and system for electric vehicles-Part 2: Test specification for high energy applications GB/T 31467.2-2015 7.2	Single channel operation mode, voltage output range: (0~1000) VDC; Single-channel continuous current output



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					range: (- 500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (- 600



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
		7	Capacity loss without load	Lithium-ion traction battery pack and system for electric vehicles-Part 1: Test specification for high power applications GB/T 31467.1-2015 7.3	Single channel operation mode, voltage output range: (0~1000) VDC; Single-channel continuous current output range: (- 500~500) A; The



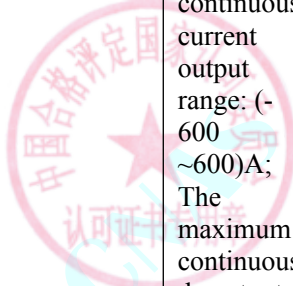
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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (-600 ~600)A; The maximum continuous dc output power of

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					two channels is 250KW, no time limit.
				Lithium-ion traction battery pack and system for electric vehicles-Part 2: Test specification for high energy applications GB/T 31467.2-2015 7.3	Single channel operation mode, voltage output range: (0~1000) VDC; Single-channel continuous current output range: (500~500) A; The maximum continuous dc output power of single channel is



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (-600~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		8	Capacity loss in storage	Lithium-ion traction battery pack and system for electric vehicles-Part 1: Test specification for high power applications GB/T 31467.1-2015 7.4	Single channel operation mode, voltage output range: (0~1000) VDC; Single-channel continuous current output range: (- 500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					operation mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (-600~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
				Lithium-ion traction battery pack and system for electric vehicles-Part 2: Test specification for high energy applications GB/T 31467.2-2015 7.4	Single channel operation mode, voltage output



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					range: (0~1000) VDC; Single- channel continuous current output range: (- - 500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					DC; Double channel continuous current output range: (- 600 ~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
		9	Starting power at high and low temperature	Lithium-ion traction battery pack and system for electric vehicles-Part 1: Test specification for high power applications GB/T 31467.1-2015 7.5	Single channel operation mode, voltage output range: (0~1000) VDC; Single- channel



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					continuous current output range: (- 500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					output range: (-600 ~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
		10	Energy efficiency	Lithium-ion traction battery pack and system for electric vehicles-Part 1: Test specification for high power applications GB/T 31467.1-2015 7.6	Single channel operation mode, voltage output range: (0~1000) VDC; Single-channel continuous current output range: (-



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (-600 ~600)A; The maximum



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					continuous dc output power of two channels is 250KW, no time limit.
				Lithium-ion traction battery pack and system for electric vehicles-Part 2: Test specification for high energy applications GB/T 31467.2-2015 7.5	Single channel operation mode, voltage output range: (0~1000) VDC; Single-channel continuous current output range: (- 500~500) A; The maximum continuous dc output



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (-600~600)A; The maximum continuous dc output power of two channels is 250KW,



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					no time limit.
		11	Preprocessing test	Lithium-ion traction battery pack and system for electric vehicles-Part 3: Safety requirements and test methods GB/T 31467.3-2015 6.2	Single channel operation mode, voltage output range: (0~1000) VDC; Single-channel continuous current output range: (- 500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (-600~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
		12	Vibration	Lithium-ion traction battery pack and system for electric vehicles-Part 3: Safety requirements and test methods and Amendment sheet No. 1 GB/T 31467.3-2015 7.1	Just do: 1. Vibration frequency



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					range: (2~2500)Hz, 2. Maximum speed: 2m/s. 3. Maximum acceleration: 150g. 4. Maximum displacement: 76mm. 5. Maximum load: 2000kg.
		13	Mechanical Shock	Lithium-ion traction battery pack and system for electric vehicles-Part 3: Safety requirements and test methods GB/T 31467.3-2015 7.2	Only: half sine, back peak sawtooth pulse width:(0.3 ~30)ms 1. Vibration frequency range: (2~2500

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					1. Hz, 2. Maximum speed: 2m/s. 3. Maximum acceleration: 150g. 4. Maximum displacement: 76mm. 5. Maximum load: 2000kg.
		14	Free fall	Lithium-ion traction battery pack and system for electric vehicles-Part 3: Safety requirements and test methods GB/T 31467.3-2015 7.3	Maximum load: 1200kg. Maximum specimen size: (2200*2200*1200)mm. Drop height: (0~1500) mm



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		15	Rolling-over	Lithium-ion traction battery pack and system for electric vehicles-Part 3: Safety requirements and test methods GB/T 31467.3-2015 7.4	Maximum test weight: 1000kg. Rotation direction: X-axis, Y-axis. Test point: 1°~720 °. Tilting plate size: ≤ (3000*2000) mm (W*D). Test speed: (1°~12°) /s
		16	Crush	Lithium-ion traction battery pack and system for electric vehicles-Part 3: Safety requirements and test methods and Amendment sheet No. 1 GB/T 31467.3-2015 7.6	Maximum test force: 200KN. Test stroke: (10~1000) mm. Extrusion speed is (1~10) mm/s。



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		17	Temperature shock	Lithium-ion traction battery pack and system for electric vehicles-Part 3: Safety requirements and test methods GB/T 31467.3-2015 7.7	Test area temperature range: (-40~150) °C Volume: 1000 L
		18	Wet -heat cycle	Lithium-ion traction battery pack and system for electric vehicles-Part 3: Safety requirements and test methods GB/T 31467.3-2015 7.8	Just do: 1. Capacity: $\leq 18\text{m}^3$ 2. Temperature: (20 ~ 85) °C 3. Temperature change rate: $\leq 5\text{ }^{\circ}\text{C} / \text{min.}$ 4. Humidity range: (20%~98%) RH
		19	Seawater immersion	Lithium-ion traction battery pack and system for electric vehicles-Part 3: Safety requirements and test methods GB/T 31467.3-2015 7.9	About (2600*2200*1000) mm

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					(W*D*H). Weight of hanging basket: ≤1000kg.
		20	High altitude	Lithium-ion traction battery pack and system for electric vehicles-Part 3: Safety requirements and test methods GB/T 31467.3-2015 7.12	Pressure range: atmospheric pressure ~ 0.5kpa
		21	Over temperature protection	Lithium-ion traction battery pack and system for electric vehicles-Part 3: Safety requirements and test methods GB/T 31467.3-2015 7.13	Single channel operation mode, voltage output range: (0~1000) DC; Single-channel continuous current output range (-500~500) A; The maximum continuous



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Dual channel continuous current output range (-600 ~600)A; The maximum continuous dc output power of two channels is

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					250KW, no time limit. 1. Capacity: ≤ 18 m ³ 2. Temperatu re: (- 70~150) °C 3. The temperatur e change rate: ≤ 5 °C / min.
		22	Short circuit protection	Lithium-ion traction battery pack and system for electric vehicles-Part 3: Safety requirements and test methods GB/T 31467.3-2015 7.14	Temperatu re range: (0~1000) °C. Voltage range: (0~1000) V. Current range: (0~15000) A.
		23	Over-charge	Lithium-ion traction battery pack and system for electric vehicles-Part 3:	Single



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
			protection	Safety requirements and test methods GB/T 31467.3-2015 7.15	channel operation mode, voltage output range: (0~1000) VDC; Single-channel continuous current output range: (-500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode,

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					voltage output range: (58~750)V DC; Double channel continuous current output range: (-600~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
		24	Over-discharge protection	Lithium-ion traction battery pack and system for electric vehicles-Part 3: Safety requirements and test methods GB/T 31467.3-2015 7.16	Single channel operation mode, voltage output range: (0~1000

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					） VDC; Single-channel continuous current output range: (- 500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double channel



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					continuous current output range: (-600~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
6		1	capacity and energy (Initial capacity and energy) at room temperature	Cycle life requirements and test methods for traction battery of electric vehicle GB/T 31484-2015 6.2	Single channel operation mode, voltage output range: (0~1000) VDC; Single-channel continuous current output



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					range: (-500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (-600 ~600)A;



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					The maximum continuous dc output power of two channels is 250KW, no time limit.
		2	Power (Initial power) at room temperature	Cycle life requirements and test methods for traction battery of electric vehicle GB/T 31484-2015 6.3	Single channel operation mode, voltage output range: (0~1000) VDC; Single-channel continuous current output range: (-500~500) A; The maximum continuous



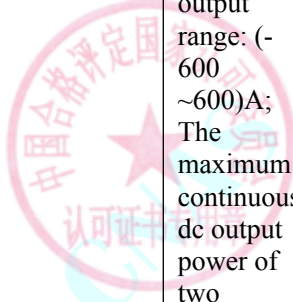
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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (-600 ~600)A; The maximum continuous dc output power of two channels is

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					250KW, no time limit.
		3	Standard life cycle	Cycle life requirements and test methods for traction battery of electric vehicle GB/T 31484-2015 6.4	Single channel operation mode, voltage output range: (0~1000) VDC; Single-channel continuous current output range: (-500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (-600~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
		4	Cycle life of power-type battery for hybrid passenger vehicle under operating	Cycle life requirements and test methods for traction battery of electric vehicle GB/T 31484-2015 6.5.1	Single channel operation mode,



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
			condition		voltage output range: (0~1000) VDC; Single- channel continuous current output range: (- 500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					(58~750)V DC; Double channel continuous current output range: (- 600 ~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
		5	Cycle life of power-type battery for hybrid commercial vehicles under operating conditions	Cycle life requirements and test methods for traction battery of electric vehicle GB/T 31484-2015 6.5.2	Single channel operation mode, voltage output range: (0~1000) VDC; Single-



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					channel continuous current output range: (- 500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					output range: (-600~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
		6	Cycle life of energy-type battery for pure electric passenger vehicles under operating conditions	Cycle life requirements and test methods for traction battery of electric vehicle GB/T 31484-2015 6.5.3	Single channel operation mode, voltage output range: (0~1000) VDC; Single-channel continuous current output range: (-500~500)



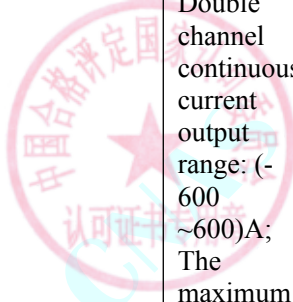
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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (-600 ~600)A; The maximum continuous

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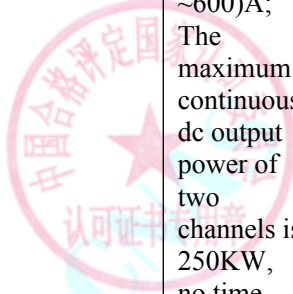
№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					dc output power of two channels is 250KW, no time limit.
		7	Cycle life of energy - type battery for pure electric commercial vehicles under operating conditions	Cycle life requirements and test methods for traction battery of electric vehicle GB/T 31484-2015 6.5.4	Single channel operation mode, voltage output range: (0~1000) VDC; Single-channel continuous current output range: (-500~500) A; The maximum continuous dc output power of single



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (-600 ~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		8	Cycle life of batter for plug-in and Range-Extended electric vehicles under operating conditions	Cycle life requirements and test methods for traction battery of electric vehicle GB/T 31484-2015 6.5.3 or 6.5.4	Single channel operation mode, voltage output range: (0~1000) VDC; Single-channel continuous current output range: (-500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (- 600 ~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
		9	Charging (cells)	Safety requirements and test methods for traction battery of electric vehicle GB/T 31485-2015 6.1.3	Single channel operation mode, voltage output range:



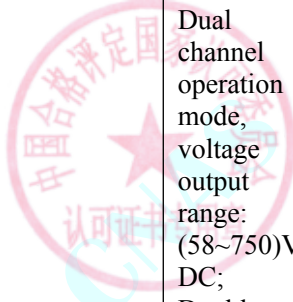
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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					(0~1000)) VDC; Single-channel continuous current output range: (- 500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					channel continuous current output range: (-600~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
		10	Charging battery	Electrical Safety requirements and test methods for traction battery of electric vehicle GB/T 31485-2015 6.1.4	Single channel operation mode, voltage output range: (0~1000)VDC; Single-channel continuous current



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					output range: (-500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (-600



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
		11	Overdischarge (cells)	Safety requirements and test methods for traction battery of electric vehicle GB/T 31485-2015 6.2.2	Single channel operation mode, voltage output range: (0~1000) VDC; Single-channel continuous current output range: (-500~500) A; The maximum



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (- 600 ~600)A; The maximum continuous dc output power of two

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					channels is 250KW, no time limit.
		12	Overcharge cells	Safety requirements and test methods for traction battery of electric vehicle GB/T 31485-2015 6.2.3	Single channel operation mode, voltage output range: (0~1000) VDC; Single-channel continuous current output range: (-500~500) A; The maximum continuous dc output power of single channel is 400KW without



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (- 600 ~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
		13	Short circuit cells	Safety requirements and test methods for traction battery of electric vehicle GB/T 31485-2015 6.2.4	Temperatu re range: (0~1000

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					) °C. Voltage range: (0~1000) V. Current range: (0~15000) A
		14	Free fall (cells)	Safety requirements and test methods for traction battery of electric vehicle GB/T 31485-2015 6.2.5	Maximum load: 1200kg. Maximum specimen size: (2200*2200*1200)mm. Drop height: (0~1500)mm
		15	Heating(cells)	Safety requirements and test methods for traction battery of electric vehicle GB/T 31485-2015 6.2.6	Just do: 1. Capacity: $\leq 18 \text{ m}^3$ 2. Temperature: room temperature



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					e~150 °C 3. The temperatur e change rate: ≤ 5 °C / min.
		16	Crush(cells)	Safety requirements and test methods for traction battery of electric vehicle GB/T 31485-2015 6.2.7	Maximum test force: 200KN. Test stroke: (10~1000) mm. Extrusion speed is (1~10) mm/s。
		17	Seawater immersion(cells)	Safety requirements and test methods for traction battery of electric vehicle GB/T 31485-2015 6.2.9	About (2600*220 0*1000)m m(W*D*H). Weight of hanging basket: ≤1000kg.
		18	Temperature cycle (cells)	Safety requirements and test methods for traction battery of electric vehicle GB/T 31485-2015 6.2.10	Single channel operation mode,



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					voltage output range: (0~1000) DC; Single- channel continuous current output range (- 500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					(58~750)V DC; Dual channel continuous current output range (- 600 ~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit. 1. Capacity: ≤ 18 m³ 2. Temperatu re: (- 70~150) °C 3. The temperatur



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					e change rate: $\leq 5^{\circ}\text{C} / \text{min.}$
		19	Low pressure(cells)	Safety requirements and test methods for traction battery of electric vehicle GB/T 31485-2015 6.2.11	Pressure range: atmospheric pressure $\sim 0.5\text{kpa}$
		20	Overdischarge (battery)	Safety requirements and test methods for traction battery of electric vehicle GB/T 31485-2015 6.3.2	Single channel operation mode, voltage output range: (0~1000) VDC; Single-channel continuous current output range: (-500~500) A; The maximum continuous dc output power of



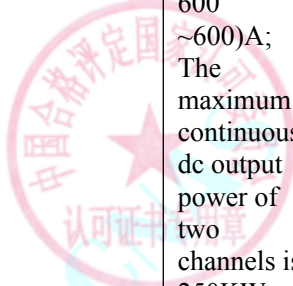
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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (-600~600)A; The maximum continuous dc output power of two channels is 250KW, no time

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					limit.
		21	Overcharge(battery)	Safety requirements and test methods for traction battery of electric vehicle GB/T 31485-2015 6.3.3	Single channel operation mode, voltage output range: (0~1000) VDC; Single- channel continuous current output range: (- 500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (-600 ~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
		22	Short circuit (battery)	Safety requirements and test methods for traction battery of electric vehicle GB/T 31485-2015 6.3.4	Temperature range: (0~1000) °C.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Voltage range: (0~1000)) V。 Current range: (0~15000)) A
		23	Free fall (battery)	Safety requirements and test methods for traction battery of electric vehicle GB/T 31485-2015 6.3.5	Maximum load: 1200kg. Maximum specimen size: (2200*2200*1200)mm. Drop height: (0~1500)) mm
		24	heating(battery)	Safety requirements and test methods for traction battery of electric vehicle GB/T 31485-2015 6.3.6	1. Capacity: ≤ 18 m³ 2. Temperature: room temperature~150 °C 3. The



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					temperatur e change rate: ≤ 5 °C / min.
		25	Crush(battery)	Safety requirements and test methods for traction battery of electric vehicle GB/T 31485-2015 6.3.7	Maximum test force: 200KN. Test stroke: (10~1000) mm. Extrusion speed is (1~10)mm/ s.
		26	Seawater immersion(battery)	Safety requirements and test methods for traction battery of electric vehicle GB/T 31485-2015 6.3.9	About (2600*220 0*1000)m m (W*D*H). Weight of hanging basket: ≤ 1000 kg.
		27	Temperature cycle (battery)	Safety requirements and test methods for traction battery of electric vehicle GB/T 31485-2015 6.3.10	Single channel operation mode, voltage output



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					range: (0~1000) DC; Single- channel continuous current output range (- 500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC;



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Dual channel continuous current output range (-600 ~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit. 1. Capacity: $\leq 18 \text{ m}^3$. 2. The temperature change rate: $\leq 5 \text{ }^\circ\text{C} / \text{min}$.
		28	Low pressure(battery)	Safety requirements and test methods for traction battery of electric vehicle GB/T 31485-2015 6.3.11	Pressure range: atmospheric pressure



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					~ 0.5kpa
		29	Appearance (cells)	Electrical performance requirements and test methods for traction battery of electric vehicle GB/T 31486-2015 6.2.1	Visual inspection
		30	Polarity (cells)	Electrical performance requirements and test methods for traction battery of electric vehicle GB/T 31486-2015 6.2.2	Dc voltage range 200mV/2V /20V/200V /1000V Ac voltage range 2V/20V/200V/1000V
		31	Dimension and mass (cells)	Electrical performance requirements and test methods for traction battery of electric vehicle GB/T 31486-2015 6.2.3	Size: (0~5000)m m Quality: (0~1000)k g
		32	Charging (cells)	Electrical performance requirements and test methods for traction battery of electric vehicle GB/T 31486-2015 6.2.4	Single channel operation mode, voltage output range: (0~1000)VDC; Single-channel



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					continuous current output range: (-500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current output



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					range: (-600~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
		33	Battery discharge capacity(initial capacity) at room temperature (cells)	Electrical performance requirements and test methods for traction battery of electric vehicle GB/T 31486-2015 6.2.5	Single channel operation mode, voltage output range: (0~1000)VDC; Single-channel continuous current output range: (-500~500)A;



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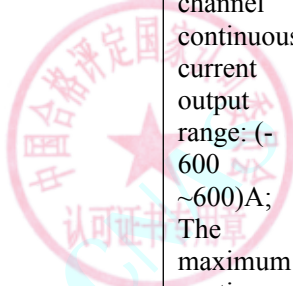
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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (-600 ~600)A; The maximum continuous dc output

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					power of two channels is 250KW, no time limit.
		34	Appearance(battery)	Electrical performance requirements and test methods for traction battery of electric vehicle GB/T 31486-2015 6.3.1	Visual inspection
		35	Polarity(battery)	Electrical performance requirements and test methods for traction battery of electric vehicle GB/T 31486-2015 6.3.2	Dc voltage range 200mV/2V /20V/200V /1000V Ac voltage range 2V/20V/200V/1000V
		36	Dimension and mass(battery)	Electrical performance requirements and test methods for traction battery of electric vehicle GB/T 31486-2015 6.3.3	Dimension : (0~5000)m m mass: (0~1000)k g
		37	Charging(battery)	Electrical performance requirements and test methods for traction battery of electric vehicle GB/T 31486-2015 6.3.4	Single channel operation mode, voltage output range:

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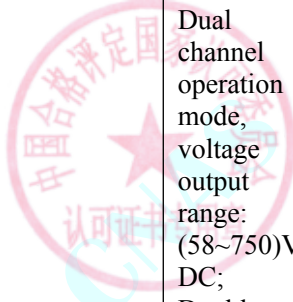
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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					(0~1000)) VDC; Single-channel continuous current output range: (- 500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					channel continuous current output range: (-600~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
		38	Discharge capacity at room temperature (battery)	Electrical performance requirements and test methods for traction battery of electric vehicle GB/T 31486-2015 6.3.5	Single channel operation mode, voltage output range: (0~1000) VDC; Single-channel continuous current



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					output range: (-500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (-600



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
		39	High rate discharging performance of energy-type battery at room temperature	Electrical performance requirements and test methods for traction battery of electric vehicle GB/T 31486-2015 6.3.6.1	Single channel operation mode, voltage output range: (0~1000) VDC; Single-channel continuous current output range: (-500~500) A; The maximum



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (- 600 ~600)A; The maximum continuous dc output power of two

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					channels is 250KW, no time limit.
		40	High rate discharging performance of power-type battery at room temperature	Electrical performance requirements and test methods for traction battery of electric vehicle GB/T 31486-2015 6.3.6.2	Single channel operation mode, voltage output range: (0~1000) VDC; Single-channel continuous current output range: (-500~500) A; The maximum continuous dc output power of single channel is 400KW without



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (- 600 ~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
		41	High rate charging performance at room	Electrical performance requirements and test methods for traction battery of electric vehicle GB/T 31486-2015 6.3.7	Single channel operation

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
			temperature(battery)		mode, voltage output range: (0~1000) VDC; Single- channel continuous current output range: (- 500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					range: (58~750)V DC; Double channel continuous current output range: (- 600 ~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
		42	Discharge capacity Low temperature(battery)	Electrical performance requirements and test methods for traction battery of electric vehicle GB/T 31486-2015 6.3.8	Single channel operation mode, voltage output range: (0~1000) DC;



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Single-channel continuous current output range (-500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Dual channel continuous



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					current output range (-600~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit. 1. Capacity: $\leq 18\text{ m}^3$ 2. Temperature: (-70~150) °C 3. The temperature change rate: $\leq 5\text{ }^{\circ}\text{C} / \text{min.}$
		43	Discharge capacity high	Electrical performance requirements and test methods for traction battery of electric vehicle GB/T 31486-2015 6.3.9	Single channel



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
			temperature(battery)		operation mode, voltage output range: (0~1000) DC; Single-channel continuous current output range (- 500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					output range: (58~750)V DC; Dual channel continuous current output range (-600 ~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit. 1. Capacity: ≤ 18 m³. 2. Temperature: room temperature~150°C. 3. The



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		44	Charge retention and capacity recovery capabilities at room temperature(battery)	Electrical performance requirements and test methods for traction battery of electric vehicle GB/T 31486-2015 6.3.10.1	temperatur e change rate: ≤ 5 °C / min. Single channel operation mode, voltage output range: (0~1000) VDC; Single- channel continuous current output range: (- 500~500) A; The maximum continuous dc output power of single channel is 400KW without



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (- 600 ~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
		45	Charge retention and capacity recovery capabilities at high	Electrical performance requirements and test methods for traction battery of electric vehicle GB/T 31486-2015 6.3.10.2	Single channel operation



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
			temperature(battery)		mode, voltage output range: (0~1000) DC; Single- channel continuous current output range (- 500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					range: (58~750)V DC; Dual channel continuous current output range (- 600 ~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit. 1. Capacity: ≤ 18 m³. 2. Temperatu re: room temperatur e~150°C. 3. The temperatur



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					e change rate: ≤ 5 °C / min. 4. Humidity range: (20%~98 %) RH.
		46	Vibration (battery)	Electrical performance requirements and test methods for traction battery of electric vehicle GB/T 31486-2015 6.3.11	1. Vibration frequency range: (2~2500)Hz, 2. Maximum speed: 2m/s. 3. Maximum acceleration: 150g. 4. Maximum displacement: 76mm. 5. Maximum load: 2000kg.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		47	Storage (battery)	Electrical performance requirements and test methods for traction battery of electric vehicle GB/T 31486-2015 6.3.12	Single channel operation mode, voltage output range: (0~1000) DC; Single-channel continuous current output range (-500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					mode, voltage output range: (58~750)V DC; Dual channel continuous current output range (- 600 ~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit. 1. Capacity: ≤ 18 m³. 2. Temperatu re: (-



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					70~150) °C. 3. The temperature change rate: ≤ 5 °C / min.
7	Ultra-capacitor for electric vehicles	1	Appearance (cells)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.2.1	Visual inspection
		2	Polarity mark (cells)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.2.2	Dc voltage range 200mV/2V/20V/200V/1000V Ac voltage range 2V/20V/200V/1000V
		3	Dimension and mass (cell)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.2.3	Dimension : (0~5000) mm mass: (0~1000) kg
		4	Electrostatic capacity	Ultra-capacitor for electric vehicles QC/T 741-2014 6.2.4	Single channel operation mode, voltage output



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					range: (0~1000) VDC; Single- channel continuous current output range: (- 500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC;



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Double channel continuous current output range: (-600 ~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
		5	Stored energy (cells)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.2.5	Single channel operation mode, voltage output range: (0~1000) VDC; Single-channel continuous



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					current output range: (-500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (-



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					600 ~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
		6	Internal resistance (cells)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.2.6	Single channel operation mode, voltage output range: (0~1000) VDC; Single- channel continuous current output range: (- 500~500) A; The



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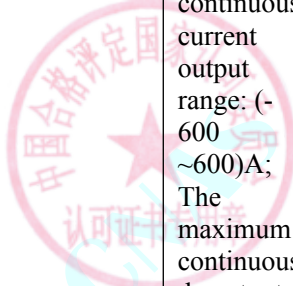
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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (-600 ~600)A; The maximum continuous dc output power of

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					two channels is 250KW, no time limit.
		7	Maximum power density (cells)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.2.7	Single channel operation mode, voltage output range: (0~1000) VDC; Single-channel continuous current output range: (-500~500) A; The maximum continuous dc output power of single channel is 400KW



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Double channel continuous current output range: (-600~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
		8	Retention capability (cells)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.2.8	Single channel



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					operation mode, voltage output range: (0~1000) VDC; Single-channel continuous current output range: (-500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					output range: (58~750)V DC; Double channel continuous current output range: (-600~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
		9	High temperature performance (cells)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.2.9	Single channel operation mode, voltage output range: (0~1000



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					）DC; Single-channel continuous current output range （-500~500）A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Dual channel

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					continuous current output range (-600 ~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit. 1. Capacity: $\leq 18 \text{ m}^3$. 2. Temperature: room temperature $\sim 150^\circ\text{C}$. 3. The temperature change rate: $\leq 5^\circ\text{C} / \text{min}$.
		10	Low temperature	Ultra-capacitor for electric vehicles QC/T 741-2014 6.2.10	Single



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
			performance (cells)		channel operation mode, voltage output range: (0~1000) DC; Single-channel continuous current output range (- 500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode,



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					voltage output range: (58~750)V DC; Dual channel continuous current output range (- 600 ~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit. 1. Capacity: ≤ 18 m³. 2. Temperatu re: (- 70~150)



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					°C. 3. The temperature change rate: ≤ 5 °C / min.
		11	Cycle life (cells)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.2.11	Single channel operation mode, voltage output range: (0~1000) DC; Single-channel continuous current output range (-500~500) A; The maximum continuous dc output power of single channel is



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Dual channel continuous current output range (-600~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit. 1.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Capacity: ≤ 18 m³. 2. Temperature: (- 70~150) °C. 3. The temperature change rate: ≤ 5 °C / min.
		12	Overdischarge (cells)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.2.12.1	Single channel operation mode, voltage output range: (0~1000) DC; Single- channel continuous current output range (- 500~500) A; The



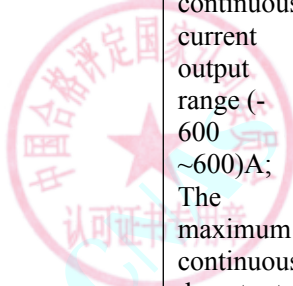
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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Dual channel continuous current output range (-600 ~600)A; The maximum continuous dc output power of

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					two channels is 250KW, no time limit.
		13	Overcharge (cells)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.2.12.2	Single channel operation mode, voltage output range: (0~1000) DC; Single-channel continuous current output range (- 500~500) A; The maximum continuous dc output power of single channel is 400KW



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Dual channel continuous current output range (-600~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
		14	Short circuit (cells)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.2.12.3	Temperature range:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					(0~1000) °C. Voltage range: (0~1000)V . Current range: (0~15000) A
		15	Free fall (cells)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.2.12.4	Maximum load: 1200kg. Maximum specimen size: (2200*220 0*1200)m m. Drop height: (0~1500)m m
		16	Heating test (cells)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.2.12.5	1. Capacity: ≤ 18 m³. 2. Temperatu re: room temperatur e~150



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					°C.C. 3. The temperature change rate: ≤ 5 °C / min. 4. Humidity range: (20%~98%) RH.
		17	Crush (cells)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.2.12.6	Maximum test force: 200KN. Test stroke: (10~1000) mm. Extrusion speed is (1~10)mm/s.
		18	Seawater immersion (cells)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.2.12.8	About (2600*2200*1000)mm (W*D*H). Weight of hanging basket:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					≤1000kg.
		19	Temperature cycle (cells)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.2.12.9	Single channel operation mode, voltage output range: (0~1000) DC; Single-channel continuous current output range (-500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					channel operation mode, voltage output range: (58~750)V DC; Dual channel continuous current output range (-600 ~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit. 1. Capacity: ≤ 18 m³. 2. Temperatu



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					re: room temperature ~150°C. 3. The temperature change rate: ≤ 5 °C / min.
		20	Formation(battery)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.3.1	Visual inspection
		21	Appearance(battery)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.3.2	Visual inspection
		22	Polarity identification(battery)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.3.3	Dc voltage range 200mV/2V/20V/200V/1000V Ac voltage range 2V/20V/200V/1000V
		23	Dimension and mass(battery)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.3.4	Dimension : (0~5000) mm mass: (0~1000) kg
		24	Electrostatic capacity(battery)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.3.5	Single channel operation



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					mode, voltage output range: (0~1000) DC; Single- channel continuous current output range (- 500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					range: (58~750)V DC; Dual channel continuous current output range (- 600 ~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
		25	Stored energy and energy density(battery)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.3.6	Single channel operation mode, voltage output range: (0~1000) DC;



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Single-channel continuous current output range (-500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Dual channel continuous



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					current output range (-600~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.
		26	Internal resistance(battery)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.3.7	Single channel operation mode, voltage output range: (0~1000) DC; Single-channel continuous current output range (-

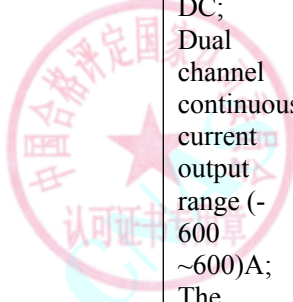


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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					500~500) A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Dual channel continuous current output range (-600 ~600)A; The maximum

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		№	Item/ Parameter		
					continuous dc output power of two channels is 250KW, no time limit.
		27	Cycle life(battery)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.3.8	Single channel operation mode, voltage output range: (0~1000) DC; Single-channel continuous current output range (-500~500) A; The maximum continuous dc output power of



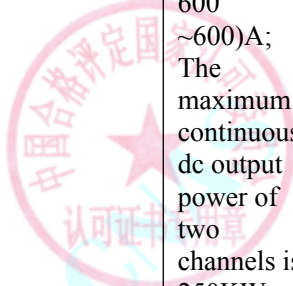
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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Dual channel continuous current output range (-600~600)A; The maximum continuous dc output power of two channels is 250KW, no time

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					limit. 1. Capacity: ≤ 18 m³. 2. Temperatu re: (- 70~150) °C. 3. The temperatur e change rate: ≤ 5 °C / min.
		28	Overdischarge(battery)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.3.9.2	Single channel operation mode, voltage output range: (0~1000) DC; Single- channel continuous current output range (- 500~500)



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Dual channel continuous current output range (-600 ~600)A; The maximum continuous



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					dc output power of two channels is 250KW, no time limit.
		29	Overcharge(battery)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.3.9.3	Single channel operation mode, voltage output range: (0~1000) DC; Single-channel continuous current output range (-500~500) A; The maximum continuous dc output power of single



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Dual channel continuous current output range (-600 ~600)A; The maximum continuous dc output power of two channels is 250KW, no time limit.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		30	Short circuit test(battery)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.3.9.4	Temperature range: (0~1000)°C · Voltage range: (0~1000)V · Current range: (0~15000) A
		31	Free fall (battery)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.3.9.5	Maximum load: 1200kg. Maximum specimen size:(2200*2200*1200)mm · Drop height: (0~1500)mm.
		32	Heating test(battery)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.3.9.6	1. Capacity: ≤ 18 m 3; 2. Temperature: room



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					temperature ~150 °C; 3. Temperature change rate : ≤5 °C / min;
		33	Crush(battery)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.3.9.7	Maximum test force: 200KN. Test stroke: (10~1000) mm. Extrusion speed is (1~10)mm/s.
		34	Seawater immersion(battery)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.3.9.9	About(2600*2200*1000)mm (W*D*H). Weight of hanging basket: ≤1000kg.
		35	Temperature cycle test(battery)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.3.9.10	Single channel operation mode, voltage



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					output range: (0~1000)V DC; Single-channel continuous current output range: (-500~500)A ; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC;



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Dual channel continuous current output range :(-600~600)A ; The maximum continuous dc output power of two channels is 250KW, no time limit. 1. Capacity: ≤ 18 m 3; 2. Temperature: room temperature~ 150 °C; 3. Temperature change rate :≤5 °C / min.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		36	Vibration (battery)	Ultra-capacitor for electric vehicles QC/T 741-2014 6.3.10	1. Vibration frequency range: (2-2500)Hz; 2. Maximum speed: 2m/s. 3. Maximum acceleration: 150g. 4. Maximum displacement: 76mm. 5. Maximum load: 2000kg.
8	General specification for Li-ion batteries	1	Charging	General specification for Li-ion batteries GJB 4477-2002 4.7.1	Single channel operation mode, voltage output range: (0~1000)V DC; Single-



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					channel continuous current output range: (- 500~500)A ; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Dual channel continuous current output



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					range :(-600~600)A ; The maximum continuous dc output power of two channels is 250KW, no time limit.
		2	Battery voltage	General specification for Li-ion batteries GJB 4477-2002 4.7.2	Dc voltage range :200mV/2 V/20V/200 V/1000V. Ac voltage range :2V/20V/200V/1000 V.
		3	Ambient temperature capacity	General specification for Li-ion batteries GJB 4477-2002 4.7.3.1	Single channel operation mode, voltage output range: (0~1000)V



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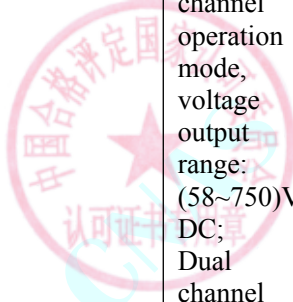
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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					DC; Single-channel continuous current output range: (-500~500)A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Dual channel continuous

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		№	Item/ Parameter		
					current output range :(-600~600)A ; The maximum continuous dc output power of two channels is 250KW, no time limit.
		4	Low temperature capacity	General specification for Li-ion batteries GJB 4477-2002 4.7.3.2	Single channel operation mode, voltage output range: (0~1000)V DC; Single-channel continuous current output range: (-500~500)A



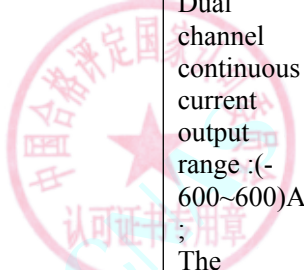
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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Dual channel continuous current output range :(-600~600)A ; The maximum continuous

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					dc output power of two channels is 250KW, no time limit. 1. Capacity: ≤ 18 m 3; 2. Temperature: - 70 °C ~ room temperature. 3. Temperature change rate :≤5 °C / min;
		5	High capacity	General specification for Li-ion batteries GJB 4477-2002 4.7.3.3	Single channel operation mode, voltage output range: (0~1000)V DC;



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Single-channel continuous current output range: (-500~500)A ; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Dual channel continuous current

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					output range :(-600~600)A ; The maximum continuous dc output power of two channels is 250KW, no time limit. 1. Capacity: ≤ 18 m 3; 2. Temperature: - 70 °C ~ 150 °C; 3. Temperature change rate :≤5 °C / min;
		6	1C ₅ A discharge capacity	General specification for Li-ion batteries GJB 4477-2002 4.7.3.4	Single channel operation mode, voltage



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					output range: (0~1000)V DC; Single-channel continuous current output range: (-500~500)A ; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC;



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Dual channel continuous current output range :(-600~600)A ; The maximum continuous dc output power of two channels is 250KW, no time limit.
		7	Charge retention	General specification for Li-ion batteries GJB 4477-2002 4.7.4	Single channel operation mode, voltage output range: (0~1000)V DC; Single-channel continuous current



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					output range: (-500~500)A ; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Dual channel continuous current output range :(-600~600)A ;



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					The maximum continuous dc output power of two channels is 250KW, no time limit.
		8	Cycle life	General specification for Li-ion batteries GJB 4477-2002 4.7.5	Single channel operation mode, voltage output range: (0~1000)V DC; Single-channel continuous current output range: (-500~500)A ; The maximum continuous dc output



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Dual channel continuous current output range :(-600~600)A ; The maximum continuous dc output power of two channels is 250KW,



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					no time limit.
		9	Fast charging performance	General specification for Li-ion batteries GJB 4477-2002 4.7.6	Single channel operation mode, voltage output range: (0~1000)V DC; Single-channel continuous current output range: (-500~500)A ; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					operation mode, voltage output range: (58~750)V DC; Dual channel continuous current output range :(-600~600)A ; The maximum continuous dc output power of two channels is 250KW, no time limit.
		10	Storage performance	General specification for Li-ion batteries GJB 4477-2002 4.7.7	Single channel operation mode, voltage output



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					range: (0~1000)V DC; Single- channel continuous current output range: (- 500~500)A ; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Dual



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					channel continuous current output range :(-600~600)A ; The maximum continuous dc output power of two channels is 250KW, no time limit.
		11	Shock	General specification for Li-ion batteries GJB 4477-2002 4.7.8	Only do: half sine, back peak saw tooth. Pulse width: no more than 30ms 1. Vibration frequency range: (2~2500)Hz;



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					2. Maximum speed: 2m/s; 3. Maximum acceleration: 150g; 4. Maximum displacement: 76mm; 5. Maximum load: 2000kg.
		12	Vibration	General specification for Li-ion batteries GJB 4477-2002 4.7.9	Only do: 1. Vibration frequency range: (2~2500)Hz; 2. Maximum speed: 2m/s; 3. Maximum acceleration: 150g;



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					4. Maximum displacement: 76mm; 5. Maximum load: 2000kg.
		13	Free fall	General specification for Li-ion batteries GJB 4477-2002 4.7.10	Maximum load: 1200kg. Maximum specimen size: (2200*2200*1200)mm. Drop height:(0~1500)mm.
		14	Temperature shock	General specification for Li-ion batteries GJB 4477-2002 4.7.11	Test area temperature range: -55℃~150℃. Volume: 1000 L.
		15	Soaking	General specification for Li-ion batteries GJB 4477-2002 4.7.12	About (2600*2200*1000)mm

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					m (W*D*H). Weight of hanging basket: ≤1000kg.
		16	Short circuit (cells)	General specification for Li-ion batteries GJB 4477-2002 4.7.14.1	Temperatu re range: 0°C~1000 °C. Voltage range: (0~1000)V . Current range: (0~15000) A.
		17	Overcharging (cells)	General specification for Li-ion batteries GJB 4477-2002 4.7.14.2	Single channel operation mode, voltage output range: (0~1000)V DC; Single- channel continuous current



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					output range: (-500~500)A ; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Dual channel continuous current output range :(-600~600)A ;



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					The maximum continuous dc output power of two channels is 250KW, no time limit.
		18	Crush (cells)	General specification for Li-ion batteries GJB 4477-2002 4.7.14.3	Maximum test force: 200KN. Test stroke: (10~1000) mm. Extrusion speed is (1~10)mm/s.
		19	Short circuit(battery)	General specification for Li-ion batteries GJB 4477-2002 4.7.15.1	Temperature range: 0°C~1000 °C. Voltage range:(0~1000)V. Current range:(0~15000)A.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		20	Overcharge(battery)	General specification for Li-ion batteries GJB 4477-2002 4.7.15.2	Single channel operation mode, voltage output range: (0~1000)V DC; Single-channel continuous current output range: (-500~500)A ; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode,



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					voltage output range: (58~750)V DC; Dual channel continuous current output range :(- 600~600)A ; The maximum continuous dc output power of two channels is 250KW, no time limit.
		21	Overdischarge(battery)	General specification for Li-ion batteries GJB 4477-2002 4.7.15.3	Single channel operation mode, voltage output range: (0~1000)V



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					DC; Single-channel continuous current output range: (-500~500)A; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Dual channel continuous



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					current output range :(-600~600)A ; The maximum continuous dc output power of two channels is 250KW, no time limit.
		22	Dimensions	General specification for Li-ion batteries GJB 4477-2002 4.7.16	Dimension :(0~5000) mm.
		23	Mass	General specification for Li-ion batteries GJB 4477-2002 4.7.17	Mass:(0-1000)kg.
		24	Interface, color, logo and code name and appearance check	General specification for Li-ion batteries GJB 4477-2002 4.7.18	Visual inspection
9	Lithium battery	1	External short circuit	Safety requirements for lithium cells and batteries GJB 2374A-2013 A.3.1	Temperature range: (0~1000)°C ; Voltage range: (0~1000)V



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Current range: (0~15000) A.
		2	Forced discharge	Safety requirements for lithium cells and batteries GJB 2374A-2013 A.3.2	Single channel operation mode, voltage output range: (0~1000)V DC; Single-channel continuous current output range: (-500~500)A; The maximum continuous dc output power of single channel is 400KW without



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					time limit. Dual channel operation mode, voltage output range: (58~750)V DC; Dual channel continuous current output range :(- 600~600)A ; The maximum continuous dc output power of two channels is 250KW, no time limit.
		3	Abnormal charge	Safety requirements for lithium cells and batteries GJB 2374A-2013 A.3.3	Single channel operation



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					mode, voltage output range: (0~1000)V DC; Single- channel continuous current output range: (- 500~500)A ; The maximum continuous dc output power of single channel is 400KW without time limit. Dual channel operation mode, voltage output range:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					(58~750)V DC; Dual channel continuous current output range :(- 600~600)A ; The maximum continuous dc output power of two channels is 250KW, no time limit.
		4	Vibration	Safety requirements for lithium cells and batteries GJB 2374A-2013 B.3.1	Just do: 1. Vibration frequency range: (2~2500)H z; 2. Maximum speed: 2m/s;



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					3. Maximum acceleration: 150g; 4. Maximum displacement: 76mm; 5. Maximum load: 2000kg.
		5	Shock	Safety requirements for lithium cells and batteries GJB 2374A-2013 B.3.2	Maximum load: 1200kg. Table size: (2500*2500)mm. Peak acceleration: (15~30)g. Pulse width duration: (6~30)ms.
		6	Free fall	Safety requirements for lithium cells and batteries GJB 2374A-2013 B.3.3	Maximum load: 1200kg. Maximum specimen



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					size: (2200*2200*1200)mm. Drop height: (0~1500)mm.
		7	Crush	Safety requirements for lithium cells and batteries GJB 2374A-2013 B.3.5	Maximum test force: 200KN. Test stroke: (10~1000)mm. Extrusion speed is (1~10)mm/s.
		8	Low pressure	Safety requirements for lithium cells and batteries GJB 2374A-2013 C.3.1	Pressure range: atmospheric pressure ~ 0.5kpa.
		9	Thermal shock	Safety requirements for lithium cells and batteries GJB 2374A-2013 C.3.2	1. Capacity: ≤ 18 m 3. 2. Temperature: room temperature



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					e ~ 150 °C.
		10	Heating	Safety requirements for lithium cells and batteries GJB 2374A-2013 C.3.3	1. Capacity: ≤ 18 m 3. 2. Temperatu re: room temperatur e ~150 °C. 3. Tmperatur e change rate : ≤5 °C / min.
		11	High temperature storage	Safety requirements for lithium cells and batteries GJB 2374A-2013 C.3.4	1. Capacity: ≤ 18 m 3. 2. Temperatu re: Room temperatur e ~ 150 °C.
		12	Temperature shock	Safety requirements for lithium cells and batteries GJB 2374A-2013 C.3.5	Test area temperatur e range: - 55°C~150 °C. Volume: 1000 L.



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