

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

Address: No.18, Kefeng Road, Zhongxin Science & Technology City, 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, Vehicle products and Military equipment	1	Low Temperature	Environmental testing for electric and electronic products Part2:Test menthods Test A: Cold GB/T 2423.1-2008IEC 60068-2-1: 2007	Accredited only for: 1. Volume:≤5 00m ³ , Temperatu re:≥-55°C 2. Volume:≤4 0m ³ , Temperatu re:≥-100°C
				Environmental test methods for military equipments Low Temperature GJB 150.4-1986	Accredited only for: 1. Volume:≤5 00m ³ , Temperatu



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					re:≥-55℃ 2. Volume:≤4 0m³ , Temperatu re:≥-100℃
				Laboratory environmental test Methods for military materiel- part 4: Low Temperature GJB 150.4A-2009 Program I 、 II	Accredited only for: 1. Volume:≤5 00m³ , Temperatu re:≥-55℃ 2. Volume:≤4 0m³ , Temperatu re:≥-100℃
				Environmental test for electronic equipments of warships Cold GJB 4.3-1983	Accredited only for: 1. Volume:≤5 00m³ , Temperatu re:≥-55℃ 2. Volume:≤4 0m³ , Temperatu re:≥-100℃



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
			Environmental test for shipboard electronic equipments Low temperature storage tes GJB 4.4-1983		Accredited only for: 1. Volume:≤500m ³ , Temperature:≥-55°C 2. Volume:≤40m ³ , Temperature:≥-100°C
			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:≤500m ³ , Temperature:≥-55°C 2. Volume:≤40m ³ , Temperature:≥-100°C
			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:≤500m ³ , Temperature:≥-55°C 2. Volume:≤40m ³ , Temperature:≥-100°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 502.5: Low-temperature Program I、II	re: $\geq -55^{\circ}\text{C}$ 2. Volume: $\leq 40\text{m}^3$, Temperature: $\geq -100^{\circ}\text{C}$
				General Specification GMW 3172-2012 8.4.2 Low-temperature wake	Accredited only for: 1. Volume: $\leq 500\text{m}^3$, Temperature: $\geq -55^{\circ}\text{C}$ 2. Volume: $\leq 40\text{m}^3$, Temperature: $\geq -100^{\circ}\text{C}$



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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	Only used for specified product of specified customer
				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 14.3 Low temperature work	Accredited only for: 1. Volume: $\leq 500\text{m}^3$, Temperature: $\geq -55^\circ\text{C}$ 2. Volume: $\leq 40\text{m}^3$, Temperature: $\geq -100^\circ\text{C}$
				Environmental Conditions and Test Procedures for Airborne Equipment RTCA-DO-160G-2010 Section 4 Temperature and Altitude	Accredited only for: 1. Volume: $\leq 500\text{m}^3$, Temperature: $\geq -55^\circ\text{C}$ 2. Volume: $\leq 40\text{m}^3$, Temperature: $\geq -100^\circ\text{C}$



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				General specifications for military communication GJB 367A-2001 A01 Low Temperature tests	Accredited only for: 1. Volume:≤500m ³ , Temperature:≥-55°C 2. Volume:≤40m ³ , Temperature:≥-100°C
				Lithium-ion traction battery pack and system for electric vehicles Part 2:Test specification for high energy applications GB/T31467.2-2015	Accredited only for: 1. Volume:≤500m ³ , Temperature:≥-55°C 2. Volume:≤40m ³ , Temperature:≥-100°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/T18663.1-2008 idt IEC 61587-1:2007 4.2 Low Temperature, High Temperature and damp heat (cyclic)	Accredited only for: 1. IEC Volume:≤500m ³ , Temperature



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					re: $\geq -55^{\circ}\text{C}$ 2. Volume: $\leq 40\text{m}^3$, Temperature: $\geq -100^{\circ}\text{C}$
				Test methods for airborne suspension equipment GJB1063A-2008 6.2.3.1 release force of manual release mechanism 6.3.2.7switch 6.4.2.1 minimum demand voltage 6.24induction ignition test	Accredited only for: 1. Volume: $\leq 500\text{m}^3$, Temperature: $\geq -55^{\circ}\text{C}$ 2. Volume: $\leq 40\text{m}^3$, Temperature: $\geq -100^{\circ}\text{C}$
				General requirements and methods for airborne suspension test GJB1063-1991 6.2.3.1 release force of manual release mechanism 6.3.2.7switch 6.4.2.1 minimum demand voltage 6.24induction ignition test	Accredited only for: 1. Volume: $\leq 500\text{m}^3$, Temperature: $\geq -55^{\circ}\text{C}$ 2. Volume: $\leq 40\text{m}^3$, Temperature: $\geq -100^{\circ}\text{C}$



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				General Specification GMW 3172-2018 8.4.2 Low-temperature wake	Accredited only for: 1. Volume:≤500m ³ , Temperature:≥-55°C 2. Volume:≤40m ³ , Temperature:≥-100°C
		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:≤500m ³ , Temperature: ≤80°C 2. Volume:≤40m ³ , Temperature: ≤250°C
				Environmental test methods for military equipments High Temperature GJB 150.3-1986	Accredited only for: 1. Volume:≤500m ³ , Temperature



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					re: ≤80°C 2. Volume: ≤4 0m ³ , Temperatu re: ≤250°C
				Laboratory environmental test methods for military materiel- part 3: High Temperature GJB 150.3A-2009	Accredited only for: 1. Volume: ≤5 00m ³ , Temperatu re: ≤80°C 2. Volume: ≤4 0m ³ , Temperatu re: ≤250°C
				Environmental test for electronic equipments of warships Dry heat GJB 4.2-1983	Accredited only for: 1. Volume: ≤5 00m ³ , Temperatu re: ≤80°C 2. Volume: ≤4 0m ³ , Temperatu re: ≤250°C



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Test methods for electronic and electrical component GJB 360A—1996 Methods 108 temperature lifetest	Accredited only for: 1. Volume:≤500m ³ , Temperature: ≤80°C 2. Volume:≤40m ³ , Temperature: ≤250°C
				Test methods for electronic and electrical component GJB 360B—2009 Methods 108 temperature lifetest	Accredited only for: 1. Volume:≤500m ³ , Temperature: ≤80°C 2. Volume:≤40m ³ , Temperature: ≤250°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:≤500m ³ , Temperature: ≤250°C



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					re: ≤80°C 2. Volume: ≤4 0m³ , Temperatu re: ≤250°C
				Road vehicles-Environmental conditions and testing for electrical equipment 4: Climatic loads 5.1.2 High-temperature tests ISO 16750-4-2010 5.1.2 High-temperature tests	Accredited only for: 1. Volume: ≤5 00m³ , Temperatu re: ≤80°C 2. Volume: ≤4 0m³ , Temperatu re: ≤250°C
				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: ≤5 00m³ , Temperatu re: ≤80°C 2. Volume: ≤4 0m³ , Temperatu re: ≤250°C



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				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: ≤500m ³ , Temperature: ≤80°C 2. Volume: ≤40m ³ , Temperature: ≤250°C
				Electric - General specification for electronic components - Environment / Durability GMW 3172-2012 9.4.1 High Temperature Degradation	Accredited only for: 1. Volume: ≤500m ³ , Temperature: ≤80°C 2. Volume: ≤40m ³ , Temperature: ≤250°C Only used for specified product of specified customer



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Environmental Conditions and Test Procedures for Airborne Equipment RTCA-DO-160G-2010 Section4 Temperature and Altitude	Accredited only for: 1. Volume:≤500m ³ , Temperature: ≤80°C 2. Volume:≤40m ³ , Temperature: ≤250°C
				General specifications for military communication GJB 367A-2001 A02 High temperature	Accredited only for: 1. Volume:≤500m ³ , Temperature: ≤80°C 2. Volume:≤40m ³ , Temperature: ≤250°C
				Lithium-ion traction battery pack and system for electric vehicles Part 2:Test specification for high energy applications GB/T31467.2-2015	Accredited only for: 1. Volume:≤500m ³ , Temperature



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					re: ≤80°C 2. Volume: ≤40m³, Temperature: ≤250°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/T18663.1-2008 idt IEC 61587-1:2007 4.2 Low Temperature, High Temperature and damp heat (cyclic)	Accredited only for: 1. Volume: ≤500m³, Temperature: ≤80°C 2. Volume: ≤40m³, Temperature: ≤250°C
				Test methods for airborne suspension equipment GJB1063A-2008 6.2.3.1 release force of manual release mechanism 6.3.2.7 switch 6.4.2.1 minimum demand voltage 6.2.2 locking ignition test	Accredited only for: 1. Volume: ≤500m³, Temperature: ≤80°C 2. Volume: ≤40m³, Temperature: ≤250°C



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				General requirements and methods for airborne suspension test GJB1063-1991 6.2.3.1 release force of manual release mechanism 6.3.2.7switch 6.4.2.1 minimum demand voltage 6.22locking ignition test	Accredited only for: 1. Volume:≤500m ³ , Temperature: ≤80°C 2. Volume:≤40m ³ , Temperature: ≤250°C
				Electric - General specification for electronic components - Environment / Durability GMW 3172-2018 9.4.1High Temperature Degradation	Accredited only for: 1. Volume:≤500m ³ , Temperature: ≤80°C 2. Volume:≤40m ³ , Temperature: ≤250°C
		3	Damp heat, steady state	Test methods for lectronic and electrical component GJB 360A-1996 Methods 103 steady heat test	Accredited only for: 1. Volume:≤500m ³ , Temperature: ≤80°C

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		№	Item/ Parameter		
					+25℃～ +80℃ 2. Volume:≤4 0m³ , Temperatu re: +25℃～ +90℃ 3. Relative Humidity: 25%～ 95%
				Test methods for Electronic and electrical component parts Method GJB 360B-2009 Methods 103 steady heat test	Accredited only for: 1. Volume:≤5 00m³ , Temperatu re: +25℃～ +80℃ 2. Volume:≤4 0m³ , Temperatu re: +25℃～ +90℃ 3. Relative



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Humidity: 25%~ 95%
				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:≤500m ³ , Temperatu re: +25°C~ +80°C 2. Volume:≤40m ³ , Temperatu re: +25°C~ +90°C 3. Relative Humidity: 25%~ 95%
				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:≤500m ³ , Temperatu re:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					+25℃～ +80℃ 2. Volume:≤4 0m³ , Temperatu re: +25℃～ +90℃ 3. Relative Humidity: 25%～ 95%
				Electric and Electronic Components in Motor Vehicles up to 3,5t General Requirements,Test Conditions and Tests VW 80000-2013 14.14 heat,constant	Accredited only for: 1. Volume:≤5 00m³ , Temperatu re: +25℃～ +80℃ 2. Volume:≤4 0m³ , Temperatu re: +25℃～ +90℃ 3. Relative



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Humidity: 25%~ 95%
					Accredited only for: 1. Volume:≤5 00m³ , Temperatu re: +25℃~ +80℃ 2. Volume:≤4 0m³ , Temperatu re: +25℃~ +90℃ 3. Relative Humidity: 25%~ 95% Only used for specified product of specified customer
				Electric - General specification for electronic components - Environment / Durability GMW 3172-2012 9.4.6 Humid Heat Constant (HHCO)	

CHINA NATIONAL ACCREDITATION SERVICE FOR CONFORMITY ASSESSMENT
SCHEDULE OF ACCREDITATION CERTIFICATE



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				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:≤500m ³ , Temperature: +25℃~+80℃ 2. Volume:≤40m ³ , Temperature: +25℃~+90℃ 3. Relative Humidity: 25%~95%
				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:≤500m ³ , Temperature: +25℃~+80℃ 2.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Volume:≤40m³ , Temperature: +25℃~ +90℃ 3. Relative Humidity: 25%~ 95%
				Environmental test for electronic equipments of warships Damp heat,steady state GJB 4.5-1983	Accredited only for: 1. Volume:≤500m³ , Temperature: +25℃~ +80℃ 2. Volume:≤40m³ , Temperature: +25℃~ +90℃ 3. Relative Humidity: 25%~ 95%



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Environmental testing for electric and electronic products Part2:Test menthods Test Cab :Damp heat,steady state GB/T 2423.3-2016 IEC 60068-2-78-201	Accredited only for: 1. Volume:≤500m ³ , Temperatu re: +25℃~+80℃ 2. Volume:≤40m ³ , Temperatu re: +25℃~+90℃ 3. Relative Humidity: 25%~95%
				Electric - General specification for electronic components - Environment / Durability GMW 3172-2018 9.4.6 Hunid Heat Constant (HHCO)	Accredited only for: 1. Volume:≤500m ³ , Temperatu re: +25℃~+80℃ 2.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Volume:≤40m ³ , Temperature: +25℃~ +90℃ 3. Relative Humidity: 25%~ 95%
		4		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:≤500m ³ , Temperature: +25℃~ +80℃ 2. Volume:≤40m ³ , Temperature: +25℃~ +90℃ 3. Relative Humidity: 25%~ 95%



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				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:≤500m ³ , Temperature: +25℃~+80℃ 2. Volume:≤40m ³ , Temperature: +25℃~+90℃ 3. Relative Humidity: 25%~95%
				Environmental test methods for military equipments Damp heat GJB 150.9-1986	Accredited only for: 1. Volume:≤500m ³ , Temperature: +25℃~+80℃ 2.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Volume:≤40m³ , Temperature: +25℃~ +90℃ 3. Relative Humidity: 25%~ 95%
				Laboratory environmental test Methods for military materiel- Damp heat GJB 150.9A-2009	Accredited only for: 1. Volume:≤500m³ , Temperature: +25℃~ +80℃ 2. Volume:≤40m³ , Temperature: +25℃~ +90℃ 3. Relative Humidity: 25%~ 95%



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Environmental test for electronic equipments of warships Damp heat ,cycle GJB 4.6-1983	Accredited only for: 1. Volume:≤500m ³ , Temperature: +25℃~+80℃ 2. Volume:≤40m ³ , Temperature: +25℃~+90℃ 3. Relative Humidity: 25%~95%
				Test methods for electronic and electrical component parts test method GJB 360A-1996 Moisture resistance test method 106	Accredited only for: 1. Volume:≤500m ³ , Temperature: +25℃~+80℃ 2.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Volume:≤40m³ , Temperature: +25℃~ +90℃ 3. Relative Humidity: 25%~ 95%
				Test methods for electronic and electrical component parts test Method GJB 360B-2009 Moisture resistance test method 106	Accredited only for: 1. Volume:≤500m³ , Temperature: +25℃~ +80℃ 2. Volume:≤40m³ , Temperature: +25℃~ +90℃ 3. Relative Humidity: 25%~ 95%



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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 Test Methods and Procedures for Microelectronics GJB 548B-2005 Method 1004.1 moisture	Accredited only for: 1. Volume:≤500m ³ , Temperature: +25℃~+80℃ 2. Volume:≤40m ³ , Temperature: +25℃~+90℃ 3. Relative Humidity: 25%~95%
				Test methods for semiconductor discrete devices GJB 128A-1997 Method 1021 Moisture	Accredited only for: 1. Volume:≤500m ³ , Temperature: +25℃~+80℃ 2.



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		№	Item/ Parameter		
					Volume:≤40m³ , Temperature: +25℃~ +90℃ 3. Relative Humidity: 25%~ 95%
				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:≤500m³ , Temperature: +25℃~ +80℃ 2. Volume:≤40m³ , Temperature: +25℃~ +90℃ 3. Relative Humidity: 25%~ 95%



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				CHINA NATIONAL ACCREDITATION SERVICE FOR CONFORMITY ASSESSMENT SCHEDULE OF ACCREDITATION CERTIFICATE 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:≤500m³, Temperature: +25℃~+80℃ 2. Volume:≤40m³, Temperature: +25℃~+90℃ 3. Relative Humidity: 25%~95%
				Road vehicles-Environmental conditions and testing for electrical equipment part4: Climatic loads ISO 16750-4-2010 5.6 Humid heat, cycle test	Accredited only for: 1. Volume:≤500m³, Temperature: +25℃~+80℃ 2.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Volume:≤40m³ , Temperature: +25℃~ +90℃ 3. Relative Humidity: 25%~ 95%
				ENVIRONMENTAL ENGINEERING CONSIDERATIONSAND LABORATORY TESTS PART TWO-LABORATORY TEST METHODS MIL-STD-810G-2008 507.5: Humidity	Accredited only for: 1. Volume:≤500m³ , Temperature: +25℃~ +80℃ 2. Volume:≤40m³ , Temperature: +25℃~ +90℃ 3. Relative Humidity: 25%~ 95%



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№	Test Object	Item/Parameter		Standard or Method	Note
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				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: ≤5 00m³, Temperature: +25°C ~ +80°C 2. Volume: ≤4 0m³, Temperature: +25°C ~ +90°C 3. Relative Humidity: 25% ~ 95%
				Electric - General specification for electronic components - Environment / Durability GMW 3172-2012 9.4.5 Humid Heat Cyclic (HHC)	Accredited only for: 1. Volume: ≤5 00m³, Temperature: +25°C ~ +80°C 2.



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		№	Item/ Parameter		
					Volume:≤40m³ , Temperature: +25℃~ +90℃ 3. Relative Humidity: 25%~ 95% Only used for specified product of specified customer
				Environmental Conditions and Test Procedures for Airborne Equipment RTCA-DO-160G-2010 Section6 Temperature and altitude	Accredited only for: 1. Volume:≤500m³ , Temperature: +25℃~ +80℃ 2. Volume:≤40m³ , Temperature:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					+25℃～ +90℃ 3. Relative Humidity: 25%～ 95%
				General specifications for military communication GJB 367A-2001 A07 Humidity test	Accredited only for: 1. Volume:≤500m³, Temperature: +25℃～+80℃ 2. Volume:≤40m³, Temperature: +25℃～+90℃ 3. Relative Humidity: 25%～95%
				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:≤5



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					00m ³ , Temperature: +25°C~ +80°C 2. Volume:≤4 0m ³ , Temperature: +25°C~ +90°C 3. Relative Humidity: 25%~ 95%
				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:≤5 00m ³ , Temperature: +25°C~ +80°C 2. Volume:≤4 0m ³ , Temperature:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					+25℃～ +90℃ 3. Relative Humidity: 25%～ 95%
				Test methods for airborne suspension equipment GJB1063A-2008 6.17 Damp Heat Test	Accredited only for: 1. Volume:≤500m ³ , Temperature: +25℃～+80℃ 2. Volume:≤40m ³ , Temperature: +25℃～+90℃ 3. Relative Humidity: 25%～95%
				General requirements and methods for airborne suspension test GJB1063-1991 6.21 Temperature Shock Test	Accredited only for: 1. Volume:≤5



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					00m ³ , Temperature: +25°C~ +80°C 2. Volume:≤4 0m ³ , Temperature: +25°C~ +90°C 3. Relative Humidity: 25%~ 95%
				General specification for high power electromagnetic relay GJB 1461A-2017 3.21 moisture resistance test method	Accredited only for: 1. Volume:≤5 00m ³ , Temperature: +25°C~ +80°C 2. Volume:≤4 0m ³ , Temperature: re:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					+25℃~ +90℃ 3. Relative Humidity: 25%~ 95%
				Electric - General specification for electronic components - Environment / Durability GMW 3172-2018 9.4.5Humid Heat Cyclic(HHC)	Accredited only for: 1. Volume:≤500m ³ , Temperature: +25℃~ +80℃ 2. Volume:≤40m ³ , Temperature: +25℃~ +90℃ 3. Relative Humidity: 25%~ 95%
		5	Bump	Environmental testing for electric and electronic products Part 2:Test methods Test Eb and guidance : Bump GB/T 2423.6-1995 IEC 60068-2-29: 1987	Accredited only for: 1. Waveform:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Half sine wave 2. Acceleration: : (10~1000)m/s ² 3. Pulse Width: 2ms~30ms 4. Load: ≤6000kg(Puls auxiliary support≤16000kg
				Environmental test for electronic equipments of warships Bump test GJB 4.8-1983	Accredited only for: 1. Waveform: Half sine wave 2. Acceleration: : (10~1000)m/s ² 3. Pulse Width:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					2ms~ 30ms 4. Load: ≤6000kg(P lus auxiliary support≤16 000kg
				Shock and bump tests on measuring relays and protection equipment GB/T 14537-1993 idt IEC 255-21-2	Accredited only for: 1. Waveform: Half sine wave 2. Acceleratio n: : (10~ 1000)m/s² 3. Pulse Width: 2ms~ 30ms 4. Load: ≤6000kg(P lus auxiliary support≤16 000kg



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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 3: Safety requirements and test methods GB/T31467.3-2015 7.5 Simulated Bump	Accredited only for: 1. Waveform: Half sine wave 2. Acceleration: (10~1000)m/s² 3. Pulse Width: 2ms~30ms 4. Load: ≤6000kg (plus auxiliary support) ≤16000kg
		6	Salt mist	Environmental testing for electric and electronic products-Part 2: Test methods Test Ka: Salt mist GB/T 2423.17-2008 IEC 60068-2-11: 1981 Environmental testing for electric and electronic products Part 2: Test Test Kb: Salt mist, cyclic (sodium chloride solution) GB/T 2423.18-2012 IEC 60068-2-52: 1996	Accredited only for: Volume: ≤15m³ Accredited only for: Volume: ≤15m³



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Environmental test methods for military equipments Salt fogtest GJB 150.11-1986	Accredited only for: Volume: ≤15m ³
				Laboratory environmental testMethods for military materiel- part 11: Salt fog test GJB 150.11A-2009	Accredited only for: Volume: ≤15m ³
				Environmental test for electronic equipments of warships Salt mist GJB 4.11-1983	Accredited only for: Volume: ≤15m ³
				Test methods for Electronic and electrical component parts GJB 360A-1996 Method 101Salt spray test	Accredited only for: Volume: ≤15m ³
				Test methods for Electronic and electrical component parts GJB 360B-2009 Method 101Salt spray test	Accredited only for: Volume: ≤15m ³
				Test Methods and Procedures for Microelectronics GJB 548B-2005 Method 1009.2 Salt mist(Salt steam)	Accredited only for: Volume: ≤15m ³
				Test methods for semiconductor discrete devices GJB 128A-1997 Method 1041 Salt air(Erosion) 1046 Salt mist(Corrosion)	Accredited only for: Volume: ≤15m ³
				Road vehicles-Environmental conditions and testing for electrical equipment par4: Climatic loads GB/T 28046.4-2011 5.5 Salt mist	Accredited only for:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Volume: ≤15m ³
				Road vehicles-Envromental coditions and testing for electrical equipment par4:Climatic loads ISO 16750-4-2010 5.5 Salt mist	Accredited only for: Volume: ≤15m ³
				ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS PART TWO-LABORATORY TEST METHODS MIL-STD-810G-2008 509.5: Salt Fog	Accredited only for: Volume: ≤15m ³
				Electric and Electronic Components in Motor Vehicles up to 3,5t General Requirements,Test Conditions and Tests VW 80000-2013 14.6 Salt Spray test (extravehicular working conditions) 14.7 Salt Spray test (work under the cabin)	Accredited only for: Volume: ≤15m ³
				General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172-2012 9.4.7 Salt Mist 9.4.8 Salt Spray	Accredited only for: Volume: ≤15m ³ Only used for specified product of specified customer
				Environmental Conditions and Test Procedures for Airborne Equipment RTCA-DO-160G-2010 Section14 Salt Spray	Accredited only for: Volume: ≤15m ³
				Lithium-ion traction battery pack and system for electric vehicles Part 3:Safety requirements and test methods GB/T31467.3-2015 7.11Salt Mist	Accredited only for:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Volume: ≤15m ³
				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 4.3 Industry Gas	Accredited only for: Volume: ≤15m ³
				Test methods for airborne suspension equipment GJB1063A-2008 6.12 Salt Mist Test	Accredited only for: Volume: ≤15m ³
				General requirements and methods for airborne suspension test GJB1063-1991 6.12 Salt Mist Test	Accredited only for: Volume: ≤15m ³
				General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172-2018 9.4.7 Salt Mist 9.4.8 Salt Spray	Accredited only for: Volume: ≤15m ³
				General requirements and methods for airborne suspension test GB/T 10125-2012	Accredited only for: Volume: ≤15m ³
				General specification for high power electromagnetic relay GJB 1461A-2017 3.19 salt mist	Accredited only for: Volume: ≤15m ³
		7	Vibration	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: 1. Frequency:



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		№	Item/ Parameter		
					1Hz~4000Hz 2. thrust:≤392 kN 3. load:≤6000 kg (≤16000kg with assistant underprop) 4. Acceleration: ≤1470m/s² 5. Displacement(p-p):≤100m m
				Environmental testing for electric and electronic products Part2:Test menthods Test Fh :Vibration, broad-band random (digital control) and guidance GB/T 2423.56-2006 IEC 60068-2-64-1993	Accredited only for: 1. Frequency: 1Hz~4000Hz 2. thrust:≤392 kN



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					3. load:≤6000 kg (≤16000kg with assistant underprop) 4. Acceleratio n: ≤1470m/s² 5. Displacem ent(p- p):≤100m m
				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: 1. Frequency: 1Hz~ 4000Hz 2. thrust:≤392 kN 3. load:≤6000 kg (≤16000kg with assistant

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					underprop) 4. Acceleration: $\leq 1470 \text{ m/s}^2$ 5. Displacement(p-p): $\leq 100 \text{ mm}$
				Mechanical vibration--Vibration testing requirements for shipboard equipment and machinery components GB/T 19845-2005 ISO 10055: 1996	Accredited only for: 1. Frequency: 1Hz~4000Hz 2. thrust: $\leq 392 \text{ kN}$ 3. load: $\leq 6000 \text{ kg}$ ($\leq 16000 \text{ kg}$ with assistant underprop) 4. Acceleration: $\leq 1470 \text{ m/s}^2$ 5.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Displacement(p-p):≤100mm
				Environmental test methods for military equipments Vibration test GJB 150.16-1986 Program I Program II Program III Program IV	Accredited only for: 1. Frequency: 1Hz~4000Hz 2. thrust:≤392 kN 3. load:≤6000 kg (≤16000kg with assistant underprop) 4. Acceleration: ≤1470m/s ² 5. Displacement(p-p):≤100mm
				Laboratory environmental test Methods for military materiel- part 16	Accredited



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				vibration test GJB 150.16A-2009 Program I Program III Program IV	only for: 1. Frequency: 1Hz~ 4000Hz 2. thrust:≤392 kN 3. load:≤6000 kg (≤16000kg with assistant underprop) 4. Acceleratio n: ≤1470m/s ² 5. Displacem ent(p- p):≤100m m
				Environmental test methods for military equipments Aircratt Gunfire vibration test GJB 150.20-1986	Accredited only for: 1. Frequency: 1Hz~ 4000Hz



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					2. thrust:≤392 kN 3. load:≤6000 kg (≤16000kg with assistant underprop) 4. Acceleratio n: ≤1470m/s ² 5. Displacem ent(p- p):≤100m m
				Laboratory environmental test methods for military materiel Part20: Gunfire vibration test GJB 150.20A -2009	Accredited only for: 1. Frequency: 1Hz~ 4000Hz 2. thrust:≤392 kN 3. load:≤6000 kg



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					(≤16000kg with assistant underprop) 4. Acceleration: ≤1470m/s² 5. Displacement(p-p):≤100mm
				Environmental test for electronic equipments of warships Vibration GJB 4.7-1983	Accredited only for: 1. Frequency: 1Hz~4000Hz 2. thrust:≤392 kN 3. load:≤6000 kg (≤16000kg with assistant underprop) 4. Acceleratio



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					n: ≤1470m/s ² 5. Displacement(p-p):≤100mm
				Test methods standard electronic and electric component parts GJB 360A-1996 Methods 201 Low-frequency Vibration Methods 214 Random Vibration	Accredited only for: 1. Frequency: 1Hz~4000Hz 2. thrust:≤392kN 3. load:≤6000kg (≤16000kg with assistant underprop) 4. Acceleration: n: ≤1470m/s ² 5. Displacement(p-p):≤100mm



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					m
				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: 1. Frequency: 1Hz~4000Hz 2. thrust:≤392 kN 3. load:≤6000 kg (≤16000kg with assistant underprop) 4. Acceleration: ≤1470m/s² 5. Displacement(p-p):≤100m
				Test Methods and Procedures for Microelectronics GJB 548B-2005 Method 2007 sweep frequency	Accredited only for: 1. Frequency:



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		№	Item/ Parameter		
					1Hz~4000Hz 2. thrust:≤392 kN 3. load:≤6000 kg (≤16000kg with assistant underprop) 4. Acceleration: ≤1470m/s² 5. Displacement(p-p):≤100m m
				Test methods for semiconductor discrete devices 2056 sweepfrequency GJB 128A-1997 Method	Accredited only for: 1. Frequency: 1Hz~4000Hz 2. thrust:≤392 kN



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					3. load:≤6000 kg (≤16000kg with assistant underprop) 4. Acceleratio n: ≤1470m/s² 5. Displacem ent(p- p):≤100m m
				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: 1. Frequency: 1Hz~ 4000Hz 2. thrust:≤392 kN 3. load:≤6000 kg (≤16000kg with assistant

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					underprop) 4. Acceleration: $\leq 1470\text{m/s}^2$ 5. Displacement(p-p): $\leq 100\text{mm}$
				Road vehicles-Environmental conditions and testing for electrical equipment par3: Mechanical loads GB/T 28046.3-2011 4.1 vibration	Accredited only for: 1. Frequency: $1\text{Hz} \sim 4000\text{Hz}$ 2. thrust: $\leq 392\text{kN}$ 3. load: $\leq 6000\text{kg}$ ($\leq 16000\text{kg}$ with assistant underprop) 4. Acceleration: $\leq 1470\text{m/s}^2$ 5.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Displacement(p-p):≤100mm
				Road vehicles-Environmental conditions and testing for electrical equipment part 3: Mechanical loads ISO 16750-3: 2007 4.1 vibration	Accredited only for: 1. Frequency: 1Hz~4000Hz 2. thrust:≤392 kN 3. load:≤6000 kg (≤16000kg with assistant underprop) 4. Acceleration: ≤1470m/s ² 5. Displacement(p-p):≤100mm
				ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND	Accredited



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				LABORATORY TESTS PART TWO-LABORATORY TEST METHODS MIL-STD-810G-2008 514.6: Vibration Program I Program III Program IV	only for: 1. Frequency: 1Hz~4000Hz 2. thrust:≤392 kN 3. load:≤6000 kg (≤16000kg with assistant underprop) 4. Acceleration: ≤1470m/s ² 5. Displacement(p-p): ≤100mm
				Test method standard, electronic and electrical component parts 202G 2002 Method 204D Vibration,High-frequency	Accredited only for: 1. Frequency: 1Hz~4000Hz 2.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					thrust:≤392 kN 3. load:≤6000 kg (≤16000kg with assistant underprop) 4. Acceleration: ≤1470m/s ² 5. Displacement(p-p): ≤100mm
				General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172-2012 6.8 Vibration Transmissibility Demonstration	Accredited only for: 1. Frequency: 1Hz~4000Hz 2. thrust:≤392 kN 3. load:≤6000 kg (≤16000kg with



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					assistant underprop) 4. Acceleration: $\leq 1470\text{m/s}^2$ 5. Displacement(p-p): $\leq 100\text{mm}$ Only used for specified product of specified customer
				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: 1. Frequency: 1Hz~4000Hz 2. thrust: $\leq 392\text{kN}$ 3. load: $\leq 6000\text{kg}$ ($\leq 16000\text{kg}$ with assistant



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					underprop) 4. Acceleration: $\leq 1470 \text{m/s}^2$ 5. Displacement(p-p): $\leq 100 \text{mm}$
				Environmental Conditions and Test Procedures for Airborne Equipment RTCA-DO-160G-2010 Section8 Vibration	Accredited only for: 1. Frequency: 1Hz~4000Hz 2. thrust: $\leq 392 \text{kN}$ 3. load: $\leq 6000 \text{kg}$ ($\leq 16000 \text{kg}$ with assistant underprop) 4. Acceleration: $\leq 1470 \text{m/s}^2$ 5. Displacement



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				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	ent(p-p): ≤100mm Accredited only for: 1. Frequency: 1Hz~4000Hz 2. thrust:≤392 kN 3. load:≤6000 kg (≤16000kg with assistant underprop) 4. Acceleration: ≤1470m/s ² 5. Displacement(p-p): ≤100mm
				General specifications for military communication GJB 367A-2001 A05 Vibration test	Accredited only for: 1. Frequency:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					1Hz~ 4000Hz 2. thrust:≤392 kN 3. load:≤6000 kg (≤16000kg with assistant underprop) 4. Acceleratio n: ≤1470m/s ² 5. Displacem ent(p-p): ≤100mm
				Electrical relays Part 21:Vibration,shock,bump and seismic tests on measuring relays and protection equipment Section one: Vibration tests(sinusoidal) GB/T 11287-2000 idt IEC 255-21-1:1988	Accredited only for: 1. Frequency: 1Hz~ 4000Hz 2. thrust:≤392 kN 3.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					load:≤6000 kg (≤16000kg with assistant underprop) 4. Acceleration: ≤1470m/s ² 5. Displacement(p-p): ≤100mm
				Lithium-ion traction battery pack and system for electric vehicles Part 3:Safety requirements and test methods GB/T31467.3-2015 7.1Vibration	Accredited only for: 1. Frequency: 1Hz~4000Hz 2. thrust:≤392 kN 3. load:≤6000 kg (≤16000kg with assistant underprop) 4.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Acceleration: $\leq 1470 \text{ m/s}^2$ 5. Displacement(p-p): $\leq 100 \text{ mm}$
				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: 1. Frequency: 1Hz~4000Hz 2. thrust: $\leq 392 \text{ kN}$ 3. load: $\leq 6000 \text{ kg}$ ($\leq 16000 \text{ kg}$ with assistant underprop) 4. Acceleration: $\leq 1470 \text{ m/s}^2$ 5. Displacement(p-p): $\leq 100 \text{ mm}$



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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 Test methods for airborne suspension equipment GJB1063A-2008 6.6 Vibration Test	Accredited only for: 1. Frequency: 1Hz~4000Hz 2. thrust:≤392 kN 3. load:≤6000 kg (≤16000kg with assistant underprop) 4. Acceleration: ≤1470m/s² 5. Displacement(p-p): ≤100mm
				Test methods for airborne suspension equipment GJB1063-1991 6.6 Vibration Test	Accredited only for: 1. Frequency: 1Hz~4000Hz



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		№	Item/ Parameter		
					2. thrust:≤392 kN 3. load:≤6000 kg (≤16000kg with assistant underprop) 4. Acceleratio n: ≤1470m/s ² 5. Displacem ent(p-p): ≤100mm
				Mechanical Shock and Vibration Durability Test-Thermal Under Hood Procedure Specification GMW17010-2015	Accredited only for: 1. Frequency: 1Hz~ 4000Hz 2. thrust:≤392 kN 3. load:≤6000 kg (≤16000kg



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		№	Item/ Parameter		
					with assistant underprop) 4. Acceleration: $\leq 1470\text{m/s}^2$ 5. Displacement(p-p): $\leq 100\text{mm}$
				Mechanical Shock and Vibration Durability Test-Thermal Under Hood Procedure Specification GMW 17010-2016	Accredited only for: 1. Frequency: 1Hz~4000Hz 2. thrust: $\leq 392\text{ kN}$ 3. load: $\leq 6000\text{ kg}$ ($\leq 16000\text{kg}$ with assistant underprop) 4. Acceleration: $\leq 1470\text{m/s}^2$



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					5. Displacement(p-p): ≤100mm
				General specification for high power electromagnetic relay GJB 1461A-2017 3.16 vibration	Accredited only for: 1. Frequency: 1Hz~4000Hz 2. thrust:≤392 kN 3. load:≤6000 kg (≤16000kg with assistant underprop) 4. Acceleration: ≤1470m/s² 5. Displacement(p-p): ≤100mm
				General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172-2018 6.8 Vibration Transmissibility Demonstration	Accredited only for:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					1. Frequency: 1Hz~ 4000Hz 2. thrust:≤392 kN 3. load:≤6000 kg (≤16000kg with assistant underprop) 4. Acceleratio n: ≤1470m/s ² 5. Displacem ent(p-p): ≤100mm
				Road vehicles-Environmental conditions and testing for electrical equipment par3: Mechanical loads ISO 16750-3: 2012 4.1 vibration	Accredited only for: 1. Frequency: 1Hz~ 4000Hz 2. thrust:≤392



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					kN 3. load:≤6000 kg (≤16000kg with assistant underprop) 4. Acceleratio n: ≤1470m/s² 5. Displacem ent(p- p):≤100m m
		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	Accredited only for: 1. Waveform : Half sine, sawtooth peaks after trapezoidal wave 2. Acceleratio n:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					(5~50000)m/s ² 3. Pulse Width: 0.3ms~30ms 4. Shock Response Spectrum: (20~120000)m/s ² 5.Load: ≤6000kg(Plus auxiliary support≤16000kg)
				Environmental testing for electric and electronic products Part 2:Tests - Test Ei:Shock - Shock response spectrum synthesis GB/T 2423.57-2008 IEC 60068-2-81-2003	Accredited only for: 1. Waveform : Half sine, sawtooth peaks after trapezoidal wave 2. Acceleratio



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					n: (5~ 50000)m/s ² 3. Pulse Width: 0.3ms~ 30ms 4. Shock Response Spectrum: (20~ 120000)m/ s ² 5.Load: ≤6000kg(P lus auxiliary support≤16 000kg)
				Environmental test methods for military equipments Shock GJB 150.18-1986 A test, the second test, the test five or six test	Accredited only for: 1. Waveform : Half sine, sawtooth peaks after trapezoidal wave 2.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Acceleration: (5~50000)m/s ² 3. Pulse Width: 0.3ms~30ms 4. Shock Response Spectrum: (20~120000)m/s ² 5.Load: ≤6000kg (Plus auxiliary support≤16000kg)
				Laboratory environmental test Methods for military materiel- part 18 Shock GJB 150.18A-2009 Procedure I ,Procedure II ,Procedure III,Procedure IV	Accredited only for: 1. Waveform : Half sine, sawtooth peaks after trapezoidal wave



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					2. Acceleration: (5~50000)m/s ² 3. Pulse Width: 0.3ms~30ms 4. Shock Response Spectrum: (20~120000)m/s ² 5. Load: ≤6000kg (Plus auxiliary support≤16000kg)
				Test method standard electronic and electrical component parts GJB 360A-1996 Method 213 Shock	Accredited only for: 1. Waveform: Half sine, sawtooth peaks after trapezoidal



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					wave 2. Acceleration: (5~50000)m/s ² 3. Pulse Width: 0.3ms~30ms 4. Shock Response Spectrum: (20~120000)m/s ² 5.Load: ≤6000kg (Plus auxiliary support≤16000kg)
				Test methods for Electronic and electrical component parts Method GJB 360B-2009 Method 213 Shock	Accredited only for: 1. Waveform: Half sine, sawtooth peaks after



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					trapezoidal wave 2. Acceleration: (5~50000)m/s ² 3. Pulse Width: 0.3ms~30ms 4. Shock Response Spectrum: (20~120000)m/s ² 5. Load: ≤6000kg (Plus auxiliary support≤16000kg)
				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	Accredited only for: 1. Waveform: Half sine, sawtooth



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					peaks after trapezoidal wave 2. Acceleration: (5~50000)m/s ² 3. Pulse Width: 0.3ms~30ms 4. Shock Response Spectrum: (20~120000)m/s ² 5.Load: ≤6000kg (Plus auxiliary support≤16000kg)
				Road vehicles-Environmental conditions and testing for electrical equipment part3: Mechanical loads GB/T 28046.3-2011 4.2 Mechanical Shock	Accredited only for: 1. Waveform : Half sine,



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					sawtooth peaks after trapezoidal wave 2. Acceleration: (5~50000)m/s ² 3. Pulse Width: 0.3ms~30ms 4. Shock Response Spectrum: (20~120000)m/s ² 5. Load: ≤6000kg (Plus auxiliary support≤16000kg) Accredited only for: 1. Waveform: Half
				Road vehicles-Environmental conditions and testing for electrical equipment part3: Mechanical loads ISO 16750-3: 2007 4.2 Mechanical Shock	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Electric and Electronic Components in Motor Vehicles up to 3,5t General Requirements, Test Conditions and Tests VW 80000-2013 13.5 Mechanical shock 13.6 Endurance shock test	sine, sawtooth peaks after trapezoidal wave 2. Acceleration: (5~50000)m/s ² 3. Pulse Width: 0.3ms~30ms 4. Shock Response Spectrum: (20~120000)m/s ² 5. Load: ≤6000kg (Plus auxiliary support ≤16000kg) Accredited only for: 1. Waveform



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					: Half sine, sawtooth peaks after trapezoidal wave 2. Acceleration: (5~50000)m/s ² 3. Pulse Width: 0.3ms~30ms 4. Shock Response Spectrum: (20~120000)m/s ² 5. Load: ≤6000kg (Plus auxiliary support≤16000kg) Accredited only for: 1.
				General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172-2012 9.3.2 Mechanical Shock-Pothole 9.3.3 Mechanical Shock-Colision 9.3.4 Mechanical Shock-Closure Slam	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Waveform : Half sine, sawtooth peaks after trapezoidal wave 2. Acceleratio n: (5~ 50000)m/s ² 3. Pulse Width: 0.3ms~ 30ms 4. Shock Response Spectrum: (20~ 120000)m/ s ² 5.Load: ≤6000kg (Plus auxiliary support≤16 000kg) Only used for



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					specified product of specified customer
				Environmental Conditions and Test Procedures for Airborne Equipment RTCA-DO-160G-2010 Section7 Operational Shocks and Crash Satety	Accredited only for: 1. Waveform : Half sine, sawtooth peaks after trapezoidal wave 2. Acceleration: (5~50000)m/s ² 3. Pulse Width: 0.3ms~30ms 4. Shock Response Spectrum: (20~120000)m/s ² 5.Load:

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					≤6000kg(P lus auxiliary support≤16 000kg)
					Accredited only for: 1. Waveform : Half sine, sawtooth peaks after trapezoidal wave 2. Acceleratio n: (5~ 50000)m/s ² 3. Pulse Width: 0.3ms~ 30ms 4. Shock Response Spectrum: (20~ 120000)m/ s ²
				UN Manual of Tests and Criteria Section 38.3 UN38.3(ST/SG/AC.10/11/Rev/Amend.1)-2013 38.3.4.4 Test T.4: Shock	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					5.Load: ≤6000kg (Plus auxiliary support≤16 000kg)
				General specifications for military communication equipment GJB 367A-2001 A04 shock	Accredited only for: 1. Waveform : Half sine, sawtooth peaks after trapezoidal wave 2. Acceleratio n: (5~ 50000)m/s ² 3. Pulse Width: 0.3ms~ 30ms 4. Shock Response Spectrum: (20~ 120000)m/



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					s ² 5.Load: ≤6000kg (Plus auxiliary support≤16 000kg)
				Shock and bump tests on measuring relays and protection equipment GB/T 14537-1993 idt IEC 255-21-2	Accredited only for: 1. Waveform : Half sine, sawtooth peaks after trapezoidal wave 2. Acceleratio n: (5~ 50000)m/s ² 3. Pulse Width: 0.3ms~ 30ms 4. Shock Response Spectrum: (20~



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					120000)m/s ² 5.Load: ≤6000kg(P lus auxiliary support≤16 000kg)
				Lithium-ion traction battery pack and system for electric vehicles Part 3:Safety requirements and test methods GB/T31467.3-2015 7.2Mechanical Shock	Accredited only for: 1. Waveform : Half sine, sawtooth peaks after trapezoidal wave 2. Acceleration: (5~50000)m/s ² 3. Pulse Width: 0.3ms~30ms 4. Shock Response Spectrum:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					(20~120000)m/s ² 5.Load: ≤6000kg(P lus auxiliary support≤16 000kg)
				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	Accredited only for: 1. Waveform : Half sine, sawtooth peaks after trapezoidal wave 2. Acceleration: (5~50000)m/s ² 3. Pulse Width: 0.3ms~30ms 4. Shock Response



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Spectrum: (20~120000)m/s ² 5.Load: ≤6000kg(P lus auxiliary support≤16 000kg)
				Test methods for airborne suspension equipment GJB1063A-2008 6.7 Shock Test	Accredited only for: 1. Waveform : Half sine, sawtooth peaks after trapezoidal wave 2. Acceleration: (5~50000)m/s ² 3. Pulse Width: 0.3ms~30ms 4. Shock



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Response Spectrum: (20~120000)m/s ² 5.Load: ≤6000kg(P lus auxiliary support≤16 000kg)
				General requirements and methods for airborne suspension test 6.7 Shock Test GJB1063-1991 General requirements and methods for airborne suspension test 6.7 Shock Test	Accredited only for: 1. Waveform : Half sine, sawtooth peaks after trapezoidal wave 2. Acceleratio n: (5~50000)m/s ² 3. Pulse Width: 0.3ms~ 30ms



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					4. Shock Response Spectrum: (20~120000)m/s ² 5.Load: ≤6000kg(P lus auxiliary support≤16 000kg)
				Mechanical Shock and Vibration Durability Test-Thermal Under Hood Procedure Specification GMW17010-2015	Accredited only for: 1. Waveform : Half sine, sawtooth peaks after trapezoidal wave 2. Acceleration: (5~50000)m/s ² 3. Pulse Width: 0.3ms~



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		№	Item/ Parameter		
					30ms 4. Shock Response Spectrum: (20~120000)m/s ² 5.Load: ≤6000kg(P lus auxiliary support≤16 000kg)
				Environment test methods for military equipment Shock test GJB 150.18-1986 Procedure X	Accredited only for: 1. Waveform : Half sine, sawtooth peaks after trapezoidal wave 2. Acceleration: (5~50000)m/s ² 3. Pulse Width:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					0.3ms~ 30ms 4. Shock Response Spectrum: (20~ 120000)m/ s ² 5.Load: ≤6000kg(P lus auxiliary support≤16 000kg)
				Environmental impact test of ship electronic equipment GJB 4.9-83	Load: ≤ 3400kg; Pendulum Angle: 0 ~ 180 °. Work table: 1500mm x 1500mm
				General specification for high power electromagnetic relay GJB 1461A-2017 3.15 shock	Accredited only for: 1. Waveform : Half sine, sawtooth



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					peaks after trapezoidal wave 2. Acceleration: (5~50000)m/s ² 3. Pulse Width: 0.3ms~30ms 4. Shock Response Spectrum: (20~120000)m/s ² 5. Load: ≤6000kg (Plus auxiliary support≤16000kg)
				General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172-2018 9.3.2 Mechanical Shock-Pothole 9.3.3 Mechanical Shock-Colision 9.3.4 Mechanical Shock-Closure Slam	Accredited only for: 1. Waveform : Half sine,



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					sawtooth peaks after trapezoidal wave 2. Acceleration: (5~50000)m/s ² 3. Pulse Width: 0.3ms~30ms 4. Shock Response Spectrum: (20~120000)m/s ² 5. Load: ≤6000kg (Plus auxiliary support≤16000kg)
				Mechanical Shock and Vibration Durability Test-Thermal Under Hood Procedure Specification GMW17010-2016	Accredited only for: 1. Waveform : Half



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					sine, sawtooth peaks after trapezoidal wave 2. Acceleration: (5~50000)m/s ² 3. Pulse Width: 0.3ms~30ms 4. Shock Response Spectrum: (20~120000)m/s ² 5. Load: ≤6000kg(Plus auxiliary support≤16000kg) Accredited only for: 1. Waveform
				Road vehicles-Environmental conditions and testing for electrical equipment part 3: Mechanical loads ISO 16750-3: 2012 4.2 Mechanical Shock	



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		№	Item/ Parameter		
					: Half sine, sawtooth peaks after trapezoidal wave 2. Acceleration: (5~50000)m/s ² 3. Pulse Width: 0.3ms~30ms 4. Shock Response Spectrum: (20~120000)m/s ² 5. Load: ≤6000kg (Plus auxiliary support≤16000kg) Accredited only for: 1.
				Verification Of Requirements For Side Impact/Roof Rail Airbag Modules GMW 3118-2012 3.2.1.2.1 dynamic shock test	



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		№	Item/ Parameter		
					Waveform : Half sine, sawtooth peaks after trapezoidal wave 2. Acceleratio n: (5~ 50000)m/s ² 3. Pulse Width: 0.3ms~ 30ms 4. Shock Response Spectrum: (20~ 120000)m/ s ² 5.Load: ≤6000kg (Plus auxiliary support≤16 000kg)
		9	Highly accelerated test	General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172-2012 8.3.1Highly Accelerated Life Test (HALT)	Accredited only for:



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		№	Item/ Parameter		
				8.4.4 Highly Accelerated Stress Test (HAST)	1. Volume: ≤10m ³ 2. Temperature: (-100~+250)°C 3. Change of Temperature: ≤60°C/min 4. Frequency: (1~6000)Hz 5. Acceleration: 980m/s ² 6. Load: ≤2000kg Only used for specified product of specified customer
				Lamp Development and Validation Test Procedures GMW14906-2015 4.8.2 Highly Accelerated Life Test	Accredited only for: 1. Volume:



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		№	Item/ Parameter		
					≤10m ³ 2. Temperature: (-100~+250)°C 3.Change of Temperature: ≤60°C/min 4.Frequency: (1~6000)Hz 5. Acceleration: 980m/s ² 7. Load: ≤2000kg
				Lamp Development and Validation Test Procedures GMW14906-2018 4.8.2 Highly Accelerated Life Test	Accredited only for: 1. Volume: ≤10m ³ 2. Temperature: (-100~+250)°C 3.Change



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					of Temperatu re: ≤60°C/min 4.Frequenc y: (1~6000)H z 5. Acceleratio n: 980m/s ² 7. Load: ≤2000kg
				Accelerated stress testing procedures for electric and products-Guidance for highly accelerated life test GB/T 29309-2012	Accredited only for: 1. Volume: ≤10m ³ 2. Temperatu re: (-100~ +250)°C 3.Change of Temperatu re: ≤60°C/min 4.Frequenc y: (1~6000)H



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					z 5. Acceleration: n: 980m/s ² 7. Load: ≤2000kg
				General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172-2018 8.3.1Highly Accelerated Life Test (HALT) 8.4.4Highly Accelerated Stress Test (HAST)	Accredited only for: 1. Volume: ≤10m ³ 2. Temperature: (-100~+250)°C 3.Change of Temperature: ≤60°C/min 4.Frequency: (1~6000)Hz z 5. Acceleration: n: 980m/s ² 7. Load: ≤2000kg
		10	Mould growth	Environmental testing for electric and electronic products Part2: Test	Accredited



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				methods test J and guidance: Mould growth GB/T2423.16-2008 IEC 60068-2-10: 2005	only for: 1. Volume: $\leq 25\text{m}^3$ 2. Temperature: (+20~+40)°C (Sterilization temperature +120°C) 3. Relative humidity: 75%RH~95%RH
				Environmental test methods for military equipments: Fungus test GJB 150.10-1986	Accredited only for: 1. Volume: $\leq 25\text{m}^3$ 2. Temperature: (+20~+40)°C (Sterilization



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					temperatur e+120°C) 3. Relative humidity: 75%RH~ 95%RH
				Laboratory environmental test methods for military materiel Part 10: Fungus test GJB 150.10A -2009	Accredited only for: 1. Volume: ≤25m ³ 2. Temperatu re:: (+20~ +40)°C (Sterilizat ion temperatur e+120°C) 3. Relative humidity: 75%RH~ 95%RH
				Environmental Conditions and Test Procedures for Airborne Equipment RTCA-DO-160G-2010 Section 13 Fungus Resistance	Accredited only for: 1. Volume:

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					≤25m ³ 2. Temperature: (+20~ +40)°C (Sterilization temperature +120°C) 3. Relative humidity: 75%RH~ 95%RH
				Test methods for airborne suspension equipment GJB1063A-2008 6.18Mould growth	Accredited only for: 1. Volume: ≤25m ³ 2. Temperature: (+20~ +40)°C (Sterilization temperature +120°C) 3.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				General requirements and methods for airborne suspension test GJB1063-1991 6.18Mould growth	Relative humidity: 75%RH~95%RH Accredited only for: 1. Volume: $\leq 25\text{m}^3$ 2. Temperature: (+20~+40)°C (Sterilization temperature +120°C) 3. Relative humidity: 75%RH~95%RH
		11	Free fall	Environmental testing for electric and electronic products Part2:Test methods Test Ed:Free fall Method 1: Free fall GB/T 2423.8-1995 IEC 60068-2-32: 1990	Accredited only for: 1. Drop height: $\leq 1500\text{mm}$ 2. Load: $\leq 300\text{kg}$

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Test methods for Electronic and electrical component parts Method GJB 360B-2009 Method 203 Random drop test	Accredited only for: 1. Drop height: $\leq 1500\text{mm}$ 2. Load: $\leq 300\text{kg}$
				Electric and Electronic Components in Motor Vehicles up to 3,5t General Requirements, Test Conditions and Tests VW 80000-2013 13.1 Free fall	Accredited only for: 1. Drop height: $\leq 1500\text{mm}$ 2. Load: $\leq 300\text{kg}$
				General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172-2012 9.3.10 Free Fall	Accredited only for: 1. Drop height: $\leq 1500\text{mm}$ 2. Load: $\leq 300\text{kg}$ Only used for specified product of specified customer
				Lithium-ion traction battery pack and system for electric vehicles Part 3: Safety requirements and test methods GB/T31467.3-2015 7.3 Free Fall	Accredited only for: 1. Drop



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					height: ≤1500mm 2. Load: ≤300kg
				General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172-2018 9.3.10 Free Fall	Accredited only for: 1. Drop height: ≤1500mm 2. Load: ≤300kg
		12	Acidic atmosphere test	Laboratory environmental test methods for military materiel Acidic atmosphere test GJB150.28-2009	1. Laboratory temperature: RT→+50 °C≤70min 2. Pressure barrel temperature: RT →+ 63 °C ≤70 min 3. Relative humidity: ≥85%RH 4. Spray quantity : ml/80cm2/h)1.0~2.0



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					5. Spray pressure: 1.00 + 0.01 KGF /cm ² 6. PH value of medicine: neutral 6.0~7.0 acidic: 3.0~3.1 7. PH value of spray solution: neutral 6.5~7.2 acidic 3.1~3.3
		13	Temperature change	Environmental test methods for military equipments Temperature shock test GJB 150.5-1986	Accredited only for: 1. Volume: ≤4 0m ³ 2. Temperature: -100°C ~ +200°C
				Laboratory environmental test methods for military materiel- part 5	Accredited

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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Temperature shock test GJB 150.5A-2009	only for: 1. Volume:≤4 0m ³ 2. Temperature: - 100°C~ +200°C
				Test methods for electronic and electrical component GJB 360A-1996 Method 107 Temperature shock test	Accredited only for: 1. Volume:≤4 0m ³ 2. Temperature: - 100°C~ +200°C
				Test methods for Electronic and electrical component GJB 360B-2009 Method 107 Temperature shock test	Accredited only for: 1. Volume:≤4 0m ³ 2. Temperature: - 100°C~ +200°C



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Test Methods and Procedures for Microelectronics GJB 548B-2005 Method 1011.1 Thermal shock	Accredited only for: 1. Volume:≤4 0m³ 2. Temperature: - 100°C~ +200°C
				ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS PART TWO-LABORATORY TEST METHODS MIL-STD-810G-2008 503.5: Temperature Shock	Accredited only for: 1. Volume:≤4 0m³ 2. Temperature: - 100°C~ +200°C
				Electric and Electronic Components in Motor Vehicles up to 3,5t General Requirements,Test Conditions and Tests VW 80000-2013 14.5 Temperature shock	Accredited only for: 1. Volume:≤4 0m³ 2. Temperature: - 100°C~ +200°C



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Electric - General specification for electronic components - Environment / Durability GMW 3172-2012 9.4.2 Temperature Shock	Accredited only for: 1. Volume:≤4 0m³ 2. Temperature: - 100℃~ +200℃ Only used for specified product of specified customer
				General specifications for military communication GJB 367A-2001 3.10.2.4 Temperature shock	Accredited only for: 1. Volume:≤4 0m³ 2. Temperature: - 100℃~ +200℃
				Lithium-ion traction battery pack and system for electric vehicles Part 3: Safety requirements and test methods GB/T31467.3-2015 7.7 Temperature Shock	Accredited only for: 1. Volume:≤4



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					0m ³ 2. Temperature: -100°C~+200°C
				Test methods for airborne suspension equipment GJB1063A-2008 6.21 Temperature Shock Test	Accredited only for: 1. Volume:≤40m ³ 2. Temperature: -100°C~+200°C
				General requirements and methods for airborne suspension test GJB1063-1991 6.21 Temperature Shock Test	Accredited only for: 1. Volume:≤40m ³ 2. Temperature: -100°C~+200°C
				General specification for high power electromagnetic relay GJB 1461A-2017 3.14 temperature shock	Accredited only for: 1. Volume:≤4



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					0m³ 2. Temperature: -100°C~+200°C
				Electric - General specification for electronic components - Environment / Durability GMW 3172-2018 9.4.2 Temperature Shock	Accredited only for: 1. Volume:≤4 0m³ 2. Temperature: -100°C~+200°C
				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: ≤500m³ 2. Temperature: -100°C~+200°C 3. Change of Temperature:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					≤60°C/min Except for: Test Nc
				Test Methods and Procedures for Microelectronics GJB 548B-2005 Method 1010.1 Temperature cycling	Accredited only for: 1. Volume: ≤500m³ 2. Temperature: -100°C ~ +200°C 3. Change of Temperature: ≤60°C/min
				Test methods for semiconductor discrete devices GJ B 128A-1997 Method 1051 (Air - air)	Accredited only for: 1. Volume: ≤500m³ 2. Temperature: -100°C ~ +200°C 3. Change



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					of Temperatu re: ≤60°C/min
				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: ≤500m³ 2. Temperatu re: -100°C~ +200°C 3. Change of Temperatu re: ≤60°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: ≤500m³ 2. Temperatu re: -100°C~ +200°C



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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	3. Change of Temperature: $\leq 60^{\circ}\text{C}/\text{min}$
				Basic environmental testing procedures Part 2: Tests Test N: Change of temperature JIS C 0025-1988	Accredited only for: 1. Volume: $\leq 500\text{m}^3$ 2. Temperature: $-100^{\circ}\text{C} \sim +200^{\circ}\text{C}$ 3. Change of Temperature: $\leq 60^{\circ}\text{C}/\text{min}$
				A104C temperature cycling test method JESD22-A104C-2005	Accredited only for: 1. Volume: $\leq 500\text{m}^3$ 2. Temperature: $-100^{\circ}\text{C} \sim$



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					+200°C 3. Change of Temperature: ≤60°C/min Except for: Test No of GB/T 2423.22-2012
				Electric - General specification for electronic components - Environment / Durability GMW 3172-2012 9.4.3 Power Temperature Cycle(PTC)	Accredited only for: 1. Volume: ≤500m³ 2. Temperature: -100°C ~ +200°C 3. Change of Temperature: ≤60°C/min Only used for specified



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					product of specified customer
				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: ≤500m³ 2. Temperature: -100℃~+200℃ 3. Change of Temperature: ≤60℃/min
				UN Manual of Tests and Criteria Section 38.3 UN38.3(ST/SG/AC.10/11/Rev/Amend.1)-2013 38.3.4.2 T.2:Temperature test	Accredited only for: 1. Volume: ≤500m³ 2. Temperature: -100℃~+200℃ 3. Change of



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Temperature: ≤60°C/min
				Environmental Conditions and Test Procedures for Airborne Equipment RTCA-DO-160G-2010 Section5 Temperature Variation	Accredited only for: 1. Volume: ≤500m³ 2. Temperature: -100°C~ +200°C 3. Change of Temperature: ≤60°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: ≤500m³ 2. Temperature: -100°C~ +200°C 3. Change



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		14	Rain test	Environmental testing for electric products part 2:Test methods Test R:Water test method GB/T 2423.38-2008	of Temperatu re: ≤60°C/min
				Environmental test methods for military equipments Rain test GJB 150.8-1986	Accredited only for : 1. Water flow: (20~ 120)L/min 2. Spray time of per squar metar of shell surface: ≥3min



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Laboratory environmental test methods for military materiel part 8:Rain test GJB 150.8A-2009	Accredited only for : 1. Water flow: (20~120)L/min 2. Spray time of per squar metar of shell surface: ≥3min
				Road vehicles-Lighting and light-signalling devices-Environmental endurance GB/T 10485-2007	Accredited only for : 1. Water flow: (20~120)L/min 2. Spray time of per squar metar of shell surface: ≥3min
				General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172—2012 9.5.2 Water	Accredited only for : 1. Water flow:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					(20~120)L/min 2. Spray time of per squar meter of shell surface: ≥3min
				General specifications for military communication equipment 2001 A06 Rain GJB 367A-	Accredited only for : 1. Water flow: (20~120)L/min 2. Spray time of per squar meter of shell surface: ≥3min
				Environmental Conditions and Test Procedures for Airborne Equipment RTCA-DO-160G-2010 Section10 Waterproofness	Accredited only for : 1. Water flow: (20~120)L/min 2. Spray time of per



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					squar metar of shell surface: ≥3min
				Test methods for airborne suspension equipment GJB1063A-2008 6.16 Rain Test	Accredited only for : 1. Water flow: (20~ 120)L/min 2. Spray time of per suar metar of shell surface: ≥3min
				General requirements and methods for airborne suspension test GJB1063- 1991 6.16 Rain Test	Accredited only for : 1. Water flow: (20~ 120)L/min 2. Spray time of per suar metar of shell surface:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					≥3min
				General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172—2018 9.5.2 Water	Accredited only for : 1. Water flow: (20~120)L/min 2. Spray time of per square meter of shell surface: ≥3min
				Basic requirements for enclosures for electric equipment in navy ships(open-type 、 protection type、 drip-proof、 splash-proof、 closed type、 watertight type) GJB 747-1989 (开启式、保护式、防滴式、防溅式、封闭式、淋密式、水密式)	Accredited only for : 1. Water flow: (20~120)L/min 2. Spray time of per square meter of shell surface: ≥3min
				Environmental test for electronic equipments of warships water GJB 4.13-1983	Accredited only for :



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					1. Water flow: (20~120)L/min 2. Spray time of per square meter of shell surface: ≥3min
		15	Icing/freezing rain test	Environmental test methods for military equipments: Icing/freezing rain test GJB 150.22-1986	Accredited only for: 1. Volume: : ≤10m ³ 2. Thickness of ice accretion: (6~75) mm
				Laboratory environmental test methods for military materiel Part 22: Icing/freezing rain test GJB 150.22A-2009	Accredited only for: 1. Volume: : ≤10m ³ 2. Thickness of ice



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					accretion: (6~75) mm
				General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172-2012 8.4.3 Frost 9.5.5 Water Freeze	Accredited only for: 1. Volume: : ≤10m ³ 2. Thickness of ice accretion: (6~75) mm Only used for specified product of specified customer
				Test methods for airborne suspension equipment GJB1063A-2008 6.5 Freezing Test	Accredited only for: 1. Volume: : ≤10m ³ 2. Thickness of ice accretion: (6~75)



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					mm
				General requirements and methods for airborne suspension test GJB1063-1991 6.5 Freezing Test	Accredited only for: 1. Volume: : $\leq 10\text{m}^3$ 2. Thickness of ice accretion: (6~75) mm
				General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172-2018 8.4.3 Frost 9.5.5 Water Freeze	Accredited only for: 1. Volume: : $\leq 10\text{m}^3$ 2. Thickness of ice accretion: (6~75) mm
		16	Sand and dust test	Environmental testing for electric and electronic products-Part 2: Test methods-Test L: Dust and Sand GB/T 2423.37-2006	Accredited only for: 1. Blowing dust 2. Dust



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					concentrati on: (2-4)kg/m³ 3. Maximum load: 3000kg 4. Environme nt Temperatu re: (+5~ +40)°C 5. Relative humidity: (20~ 90)%RH 6. Air pressure: (80~ 106)kpa
				Degrees of protection provided by enclosure(IP code) GB 4208-2008	Accredited only for: 1. Blowing dust 2. Dust concentrati on:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					(2-4)kg/m³ 3. Maximum load: 3000kg 4. Environment Temperature: (+5~+40)°C 5. Relative humidity: (20~90)%RH 6. Air pressure: (80~106)kpa Only used for specified product of specified customer Accredited only for: 1. Blowing
				Degrees of protection provided by enclosure(IP code) GB/T 4208-2017 IEC 60529-2013	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Environmental test methods for military equipments: Sand and dust test GJB 150.12-1986	dust 2. Dust concentration: (2-4)kg/m ³ 3. Maximum load: 3000kg 4. Environment Temperature: (+5~+40)°C 5. Relative humidity: (20~90)%RH 6. Air pressure: (80~106)kpa Accredited only for: 1. Blowing dust 2. Dust



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					concentration: (2-4)kg/m ³ 3. Maximum load: 3000kg 4. Environment Temperature: (+5~+40)°C 5. Relative humidity: (20~90)%RH 6. Air pressure: (80~106)kpa
				General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172-2018 9.5.1 Dust	Accredited only for: 1. Blowing dust 2. Dust concentration:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					(2-4)kg/m ³ 3. Maximum load: 3000kg 4. Environment Temperature: (+5~+40)°C 5. Relative humidity: (20~90)%RH 6. Air pressure: (80~106)kpa
				Laboratory environmental test methods for military materiel Part 12:Sand and dust test GJB 150.12A-2009	Accredited only for: 1. Blowing dust 2. Dust concentration: (2-4)kg/m ³ 3.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Maximum load: 3000kg 4. Environment Temperature: (+5~+40)°C 5. Relative humidity: (20~90)%RH 6. Air pressure: (80~106)kpa
				Electric and Electronic Components in Motor Vehicles up to 3,5t General Requirements, Test Conditions and Tests VW 80000-2013 13.3 Dust test	Accredited only for: 1. Blowing dust 2. Dust concentration: (2-4)kg/m³ 3. Maximum load:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					3000kg 4. Environme nt Temperatu re: (+5~ +40)°C 5. Relative humidity: (20~ 90)%RH 6. Air pressure: (80~ 106)kpa
				Environmental Conditions and Test Procedures for Airborne Equipment RTCA-DO-160G-2010 Section12 Sand and Dust	Accredited only for: 1. Blowing dust 2. Dust concentrati on: (2-4)kg/m³ 3. Maximum load: 3000kg 4.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Environment Temperature: (+5~ +40)°C 5. Relative humidity: (20~ 90)%RH 6. Air pressure: (80~ 106)kpa
				General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172-2012 9.5.1 Dust	Accredited only for: 1. Blowing dust 2. Dust concentrati on: (2-4)kg/m³ 3. Maximum load: 3000kg 4. Environment



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Temperature: (+5~+40)°C 5. Relative humidity: (20~90)%RH 6. Air pressure: (80~106)kpa Only used for specified product of specified customer
				Test methods for airborne suspension equipment GJB1063A-2008 6.11 Sand and Dust Test	Accredited only for: 1. Blowing dust 2. Dust concentration: (2~4)kg/m³ 3. Maximum load:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					3000kg 4. Environme nt Temperatu re: (+5~ +40)°C 5. Relative humidity: 20%~ 90% 6. Air pressure: (80~ 106)kpa
				General requirements and methods for airborne suspension test GJB1063-1991 6.11 Sand and Dust Test	Accredited only for: 1. Blowing dust 2. Dust concentrati on: (2~4)kg/m³ 3. Maximum load: 3000kg 4.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Environment Temperature: (+5~ +40)°C 5. Relative humidity: 20%~ 90% 6. Air pressure: (80~ 106)kpa
				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 6.4 Enclosure Protection Class(IP code)	Accredited only for: 1. Blowing dust 2. Dust concentration: (2~4)kg/m³ 3. Maximum load: 3000kg 4. Environment



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Temperature: (+5~+40)°C 5. Relative humidity: 20%~90% 6. Air pressure: (80~106)kpa
		17	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. Volume: ≤45m³ 2. Temperature: (-55~+180)°C 3. Frequency: (1~3000)Hz 4. Relative humidity: 25%RH~95%RH 5. Change



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					of Temperatu re: ≤15°C/min 6. Thrust: ≤196kN 7. Load: ≤2000kg 8. Acceleratio n: ≤980m/s²
				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	Accredited only for: 1. Volume: ≤45m³ 2. Temperatu re: (-55~ +180)°C 3. Frequency: (1~ 3000)Hz 4. Relative humidity: 25%RH~ 95%RH



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					5. Change of Temperature: $\leq 15^{\circ}\text{C}/\text{min}$ 6. Thrust: $\leq 196\text{kN}$ 7. Load: $\leq 2000\text{kg}$ 8. Acceleration: $\leq 980\text{m}/\text{s}^2$
				Reliability testing for qualification and production acceptance GJB 899-1990	Accredited only for: 1. Volume: $\leq 45\text{m}^3$ 2. Temperature: $(-55 \sim +180)^{\circ}\text{C}$ 3. Frequency: $(1 \sim 3000)\text{Hz}$ 4. Relative humidity: $25\%\text{RH} \sim 95\%\text{RH}$



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					5. Change of Temperature: $\leq 15^{\circ}\text{C}/\text{min}$ 6. Thrust: $\leq 196\text{kN}$ 7. Load: $\leq 2000\text{kg}$ 8. Acceleration: $\leq 980\text{m}/\text{s}^2$
				Reliability testing for qualification and production acceptance GJB 899A-2009	Accredited only for: 1. Volume: $\leq 45\text{m}^3$ 2. Temperature: $(-55 \sim +180)^{\circ}\text{C}$ 3. Frequency: $(1 \sim 3000)\text{Hz}$ 4. Relative humidity: $25\%\text{RH} \sim 95\%\text{RH}$



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					5. Change of Temperature: $\leq 15^{\circ}\text{C}/\text{min}$ 6. Thrust: $\leq 196\text{kN}$ 7. Load: $\leq 2000\text{kg}$ 8. Acceleration: $\leq 980\text{m}/\text{s}^2$
				Reliability growth test GJB 1407-1992	Accredited only for: 1. Volume: $\leq 45\text{m}^3$ 2. Temperature: $(-55 \sim +180)^{\circ}\text{C}$ 3. Frequency: $(1 \sim 3000)\text{Hz}$ 4. Relative humidity: $25\%\text{RH} \sim 95\%\text{RH}$



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					5. Change of Temperature: $\leq 15^{\circ}\text{C}/\text{min}$ 6. Thrust: $\leq 196\text{kN}$ 7. Load: $\leq 2000\text{kg}$ 8. Acceleration: $\leq 980\text{m}/\text{s}^2$
				General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172-2012 9.3.1 Vibration with Thermal Cycling	Accredited only for: 1. Volume: $\leq 45\text{m}^3$ 2. Temperature: $(-55 \sim +180)^{\circ}\text{C}$ 3. Frequency: $(1 \sim 3000)\text{Hz}$ 4. Relative humidity: $25\%\text{RH} \sim 95\%\text{RH}$



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					5. Change of Temperature: $\leq 15^{\circ}\text{C}/\text{min}$ 6. Thrust: $\leq 196\text{kN}$ 7. Load: $\leq 2000\text{kg}$ 8. Acceleration: $\leq 980\text{m}/\text{s}^2$ Only used for specified product of specified customer
				General specifications for military communication GJB 367A-2001 4.7.51 reliability Appendix B Reliability Test Methods	Accredited only for: 1. Volume: $\leq 45\text{m}^3$ 2. Temperature: $(-55 \sim +180)^{\circ}\text{C}$ 3. Frequency:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					(1~3000)Hz 4. Relative humidity: 25%~95% 5. Change of Temperature: $\leq 15^{\circ}\text{C}/\text{min}$ 6. Thrust: $\leq 196\text{kN}$ 7. Load: $\leq 2000\text{kg}$ 8. Acceleration: $\leq 980\text{m}/\text{s}^2$
				Test methods for airborne suspension equipment 6.6.2.4. Temperature and Vibration Combined Test GJB1063A-2008 6.6.2.4. Temperature and Vibration Combined Test	Accredited only for: 1. Volume: $\leq 45\text{m}^3$ 2. Temperature: $(-55\sim+180)^{\circ}\text{C}$ 3. Frequency:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					(1~3000)Hz 4. Relative humidity: 25%~95% 5. Change of Temperature: ≤15°C/min 6. Thrust: ≤196kN 7. Load: ≤2000kg 8. Acceleration: ≤980m/s²
				General requirements and methods for airborne suspension test GJB1063-1991 6.6.2.4.Temperature and Vibration Combined Test	Accredited only for: 1. Volume: ≤45m³ 2. Temperature: (-55~+180)°C 3. Frequency:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					(1~3000)Hz 4. Relative humidity: 25%~95% 5. Change of Temperature: $\leq 15^{\circ}\text{C}/\text{min}$ 6. Thrust: $\leq 196\text{kN}$ 7. Load: $\leq 2000\text{kg}$ 8. Acceleration: $\leq 980\text{m}/\text{s}^2$
				Lamp Development and Validation Test Procedures GMW14906-2015 4.9.2.2 Temperature and Vibration	Accredited only for: 1. Volume: $\leq 45\text{m}^3$ 2. Temperature: $(-55\sim+180)^{\circ}\text{C}$ 3. Frequency:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					(1~3000)Hz 4. Relative humidity: 25%~95% 5. Change of Temperature: $\leq 15^{\circ}\text{C}/\text{min}$ 6. Thrust: $\leq 196\text{kN}$ 7. Load: $\leq 2000\text{kg}$ 8. Acceleration: $\leq 980\text{m}/\text{s}^2$
				Lamp Development and Validation Test Procedures GMW14906-2018 4.9.2.2 Temperature and Vibration	Accredited only for: 1. Volume: $\leq 45\text{m}^3$ 2. Temperature: $(-55\sim+180)^{\circ}\text{C}$ 3. Frequency:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					(1~3000)Hz 4. Relative humidity: 25%~95% 5. Change of Temperature: ≤15°C/min 6. Thrust: ≤196kN 7. Load: ≤2000kg 8. Acceleration: ≤980m/s²
				General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172-2018 9.3.1 Vibration with Thermal Cycling	Accredited only for: 1. Volume: ≤45m³ 2. Temperature: (-55~+180)°C 3. Frequency:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					(1~3000)Hz 4. Relative humidity: 25%RH~95%RH 5. Change of Temperature: $\leq 15^{\circ}\text{C}/\text{min}$ 6. Thrust: $\leq 196\text{kN}$ 7. Load: $\leq 2000\text{kg}$ 8. Acceleration: $\leq 980\text{m}/\text{s}^2$
				Verification Of Requirements For Side Impact/Roof Rail Airbag Modules GMW 3118-2012 3.2.1.2.2 vibration/temperature cycle test	Accredited only for: 1. Volume: $\leq 45\text{m}^3$ 2. Temperature: $(-55\sim+180)^{\circ}\text{C}$ 3. Frequency:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					(1~3000)Hz 4. Relative humidity: 25%RH~95%RH 5. Change of Temperature: $\leq 15^{\circ}\text{C}/\text{min}$ 6. Thrust: $\leq 196\text{kN}$ 7. Load: $\leq 2000\text{kg}$ 8. Acceleration: $\leq 980\text{m}/\text{s}^2$
				Basic environmental testing procedures for electric and electronic products Test M:Low air pressure GB/T 2423.21-2008 IEC 60068-2-13-1983	Accredited only for: 1. Volume: $\leq 2\text{m}^3$ 2. Air pressure: $\geq 1.6\text{kPa}$
				Environmental Conditions and Test Procedures for Airborne Equipment RTCA-DO-160G-2010 Section4 Temperature an Altitude A1-A4、 B1-B4-、 C1-C4	Accredited only for: 1. Volume: $\leq 2\text{m}^3$



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					2. Air pressure: $\geq 1.6\text{kPa}$ 3. Temperature: $-70^{\circ}\text{C}\sim 150^{\circ}\text{C}$
		18	Acceleration test	Environmental testing for electric products part 2: Test methods Test Ga and guidance: Acceleration, steady state GB/T 2423.15-2008	Accredited only for : Maximum load of each side: 500kg The total load: 1000kg Range of acceleration: (30~1000)m/s ²
				Environmental test methods for military equipments Acceleration test GJB 150.15-1986	Accredited only for : Maximum load of each side: 500kg The total load: 1000kg



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					g Range of acceleration: (30~1000)m/s ²
				Laboratory environmental test Methods for military materiel Part 15: Acceleration test GJB 150.15A-2009	Accredited only for : Maximum load of each side: 500kg The total load:1000kg g Range of acceleration: (30~1000)m/s ²
				Test methods for electronic and electrical component GJB 360A-1996 Parts 212 Acceleration,steady stat	Accredited only for : Maximum load of each side: 500kg The total load:1000kg g Range of



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					acceleration: (30~1000)m/s ² Except for: Condition B
				Test methods for electronic and electrical component GJB 360B-2009 Parts 212 Acceleration,steady state	Accredited only for : Maximum load of each side: 500kg The total load:1000kg Range of acceleration: (30~1000)m/s ² Except for: Condition B
		19	Environmental stress screenin	Method of environmental stress screening for electronic products GJB 1032-1990	Accredited only for: 1. Volume: ≤10m ³



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					2. Temperature: (-80~+180)°C 3. Change of Temperature: ≤60°C/min 4. Frequency: (1~4000)Hz 5. Acceleration: 980m/s² 7. Load: ≤2000kg
		20	Low temperature(altitude) test	Environmental test methods for military equipments (altitude) test GJB 150.2-1986 4.1、4.2 Low pressure	Accredited only for: 1. Volume: ≤2m³ 2. Air pressure: ≥1.6kPa
				Laboratory environmental test methods for military materiel Part2: Low pressure (altitude) test GJB 150.2A-2009 Program I 、 II	Accredited only for: 1. Volume: ≤2m³



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					2. Air pressure: $\geq 1.6\text{kPa}$
				UN Manual of Tests and Criteria Section 38.3 UN38.3(ST/SG/AC.10/11/Rev/Amend.1)-2013 38.3.4.1 Test T.1: Altitude Simulation	Accredited only for: 1. Volume: $\leq 2\text{m}^3$ 2. Air pressure: $\geq 1.6\text{kPa}$
				Lithium-ion traction battery pack and system for electric vehicles Part 3: Safety requirements and test methods GB T31467.3-2015 7.12 High Altitude	Accredited only for: 1. Volume: $\leq 2\text{m}^3$ 2. Air pressure: $\geq 1.6\text{kPa}$
				Test methods for airborne suspension equipment GJB1063A-2008 6.19 Low Pressure (Altitude) Test	Accredited only for: 1. Volume: $\leq 2\text{m}^3$ 2. Air pressure: $\geq 1.6\text{kPa}$
				General requirements and methods for airborne suspension test GJB1063-1991 6.19 Low Pressure (Altitude) Test	Accredited only for: 1. Volume: $\leq 2\text{m}^3$ 2. Air pressure: $\geq 1.6\text{kPa}$



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		21	Thermal vacuum	Test requirements for launch, upper-stage, and space vehicles 6.4.4 Unit qualification thermal vacuum test 7.4.3 unit acceptance thermal vacuum test GJB 1027A-2005 6.4.4 Unit qualification thermal vacuum test 7.4.3 unit acceptance thermal vacuum test	Accredited only for: 1. Effective volume: Φ1000mm × Φ1500mm 2. Ultimate vacuum: 7×10 ⁻⁵ Pa 3. Temperature range: -130℃~+150℃ 4. Temperature change rate: ≥1℃/min 5. Temperature tolerance: ±0.5℃ 6. Measuring channel: 10× RTD



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		22	Solar Radiation	Environmental testing for electric and electronic products. Part 2: Test methods. Test Sa: Simulated solar radiation at ground level GB/T 2423.24-1995 idt IEC 68-2-5:1975	Temperature: 23-60°C Total radiant intensity: 120W/m ²
				Plastics-Methods of exposure to laboratory light sources Part 2: Xenon-arc sources GB/T 16422.2-2014/ISO 4892-2:2006	Temperature: 23-60°C Total radiant intensity: 120W/m ²
				Plastics-Methods of exposure to laboratory light sources Part 3: Fluorescent UV lamps GB/T 16422.3-2014/ISO 4892-2:2006	Temperature: 23-60°C Total radiant intensity: 120W/m ²
				Environmental test methods for military equipments Solar Radiation GJB150.7-86	Temperature: 23-60°C Total radiant intensity: 120W/m ²
				Laboratory environmental test Methods for military materiel- part 7: Solar Radiation GJB150.7A-2009	Temperature: 23-60°C Total radiant intensity: 120W/m ²



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Test methods for airborne suspension equipment GJB1063A-2008 6.20 Solar Radiation	Temperature: 23-60°C Total radiant intensity: 1120W/m ²
				General requirements and methods for airborne suspension test GJB1063-1991 6.20 Solar Radiation	Temperature: 23-60°C Total radiant intensity: 1120W/m ²
				Environmental test for electronic equipments of warships Solar Radiation GJB 4.12-83 GJB 4.12-83	Temperature: 23-60°C Total radiant intensity: 1120W/m ²
				Environmental testing. Part 2: Test methods. Test Sa: Simulated solar radiation at ground level and guidance for solar radiation testing GB/T 2423.24-2013 idt IEC 60068-2-5-2010	Temperature: 23-60°C Total radiant intensity: 1120W/m ²
		23	Inclinations and swings	Laboratory environmental test Methods for military material- part 23: Motions and inclinations test GJB 150.23A-2009	Inclination s: heel: 0°~±45°; trim: 0°~±30°;



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Swings: roll: 0°~ ±45°; pitch: 0°~ ±30°; yaw: 0°~ ±7.5.
				Environmental test methods for military equipments inclinations test GJB 150.23-91	Inclination s: heel: 0°~ ±45°; trim: 0°~ ±30°; Swings: roll: 0°~ ±45°; pitch: 0°~ ±30°; yaw: 0°~ ±7.5.
				Environmental testing for electric and electronic products Part 2: Test methods Test: Inclinations and swings GB/T 2423.31-1985	Inclination s: heel: 0°~ ±45°; trim: 0°~ ±30°; Swings: roll: 0°~ ±45°;



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					pitch: 0°~±30°; yaw: 0°~±7.5
				Environmental testing for electric and electronic products. Part 2: Test methods. Test: inclinations and swings GB/T 2423.101-2008	Inclination s: heel: 0°~±45°; trim: 0°~±30°; Swings: roll: 0°~±45°; pitch: 0°~±30°; yaw: 0°~±7.5.
2	Transport packages	1	Sinusoidal vibration at constant frequency	Packaging-Basic tests for transport packages-Part 7: Sinusoidal vibration test method at constant frequency GB/T 4857.7-2005 ISO 2247: 2000.MOD	Accredited only for: 1. Frequency: (1~4000)Hz 2. Thrust: ≤392kN 3. Load: ≤6000kg(≤16000kg with assistant



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					underprop) 4. Acceleration: $\leq 980\text{m/s}^2$ 5. Displacement(p-p): $\leq 51\text{mm}$
		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. Frequency: (1~4000)Hz 2. Thrust: $\leq 392\text{kN}$ 3. Load: $\leq 6000\text{kg}$ ($\leq 16000\text{kg}$ with assistant underprop) 4. Acceleration: $\leq 980\text{m/s}^2$ 5. Displacement(p-p): $\leq 51\text{mm}$



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		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. Frequency: (1~4000)Hz 2. Thrust: ≤392kN 3. Load: ≤6000kg(≤16000kg with assistant underprop) 4. Acceleration: ≤980m/s ² 5. Displacement(p-p): ≤51mm
3	Motor Vehicles	1	Degrees of protection by enclosure (IP code)	Degrees of protection provided by enclosure(IP code) GB 4208-2008	Accredited only for : 1. Water flow: (20~120)L/min 2. Spray time of per



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					squar metar of shell surface: ≥3min
				Road vehicles-Degrees of protection(IP code) Protection of electrical equipment against foreign objects,water andaccesse ISO 20653-2013	Accredited only for : 1. Water flow: (20~120)L/min 2. Spray time of per squar metar of shell surface: ≥3min
				Degrees of protection provided by enclosure(IP code) IEC 60529(Edition 2.1): 2001-02	Accredited only for : 1. Water flow: (20~120)L/min 2. Spray time of per squar metar of shell surface:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					≥3min
				Road vehicles-Degrees of protection(IP code) DIN 40050-9-1993	Accredited only for : 1. Water flow: (20~120)L/min 2. Spray time of per square meter of shell surface: ≥3min
				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 6.4 Enclosure Protection Class(IP code)	Accredited only for : 1. Water flow: (20~120)L/min 2. Spray time of per square meter of shell surface: ≥3min
				Degrees of protection provided by enclosure(IP code) GB 4208-2017/IEC 60529:2013	Accredited only for :



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					1. Water flow: (20~120)L/min 2. Spray time of per square meter of shell surface: ≥3min
		2	Change of voltage	Road vehicles-Environmental conditions and testing for electrical equipment Part2:Power Environment ISO 16750-2-2012 4.3 Overvoltage 4.4 Superimposed AC voltage 4.5 Slow Down and Slow Ascention of Supply Voltage 4.7 Reverse Voltage 4.11 Withstand Voltage	Accredited only for: 1. Input voltage: <60V 2. Rated input current: < 25
				Electric and Electronic Components in Motor Vehicles up to 3,5t General Requirements,Test Conditions and Tests VW 80000-2013 6.1 Long Time overvoltage 6.2 Transient Overvoltage 6.3 Transient Undervoltage 6.6 Superimposed AC voltage 6.7 Slow Down and Slow Ascention of Supply Voltage	Accredited only for: 1. Input voltage: <60V 2. Rated input current: < 25



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172—2012 8.2.3 Over Voltage 9.2.3 Battery Voltage Dropout 9.2.4 Sinusoidal Superimposed Voltage 9.2.5 Pulse Superimposed Voltage 9.2.13 Discrete Digital Input Threshold Voltage	Accredited only for: 1. Input voltage: <60V 2. Rated input current: < 25 Only used for specified product of specified customer
				General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172—2018 8.2.3 Over Voltage 9.2.3 Battery Voltage Dropout 9.2.4 Sinusoidal Superimposed Voltage 9.2.5 Pulse Superimposed Voltage 9.2.13 Discrete Digital Input Threshold Voltage	Accredited only for: 1. Input voltage: <60V 2. Rated input current: < 25
		3	Interruptiontest	Road vehicles-Environmental conditions and testing for electrical equipment Part2:Power Environment ISO 16750-2-2012 4.6 Interruption of Supply Voltage	Accredited only for: 1. Input voltage: <60V 2. Rated



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					input current: < 25
				Electric and Electronic Components in Motor Vehicles up to 3,5t General Requirements,Test Conditions and Test Interruption 6.13 Interruption of Pin 6.14 Interruption of Plug	Accredited only for: 1. Input voltage: <60V 2. Rated input current: < 25
				General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172—2012 9.2.2 Power Supply Interruptions 9.2.9 Open Circuit-Single Line Interruption 9.2.10 Open Circuit-Multiple Line Interruption	Accredited only for: 1. Input voltage: <60V 2. Rated input current: < 25 Only used for specified product of specified customer
				General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172—2018 9.2.2 Power Supply Interruptions 9.2.9 Open Circuit-Single Line Interruption 9.2.10 Open Circuit-Multiple Line	Accredited only for: 1. Input



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		№	Item/ Parameter		
				Interruption	voltage: <60V 2. Rated input current: < 25
		4	Short Circuit test	General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172—2012 9.2.6 Intermittent Short Circuit to Battery and to Ground for Input/Output 9.2.7 Continuous Short Circuit to Battery and to Ground for Input/Output 9.2.8 grounding and battery short-circuited	Accredited only for: 1. Input voltage: <60V 2. Rated input current: < 25 Only used for specified product of specified customer
				Electric and Electronic Components in Motor Vehicles up to 3,5t General Requirements, Test Conditions and Test 6.10 Short-term Interruption 6.13 Interruption of Pin 6.14 Interruption of Plug VW 80000-2013 6.17 信号线路和负荷电路短路	Only for the facility: input voltage < 60V and input rated current < 25A



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Road vehicles-Environmental conditions and testing for electrical equipment Part2:Power Environment ISO 16750-2-2012 4.10 Short circuit protection	Only for the facility: input voltage< 60V and input rated current< 25A
				Lithium-ion traction battery pack and system for electric vehicles Part 3:Safety requirements and test methods GB/T31467.3-2015 7.14 Short Circuit Protect	Accredited only for: 1. Input voltage: <60V 2. Rated input current: <25
				General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172—2018 9.2.6 Intermittent Short Circuit to Battery and to Ground for Input/Output 9.2.7 Continuous Short Circuit to Battery and to Ground for Input/Output 9.2.8 grounding and battery short-circuited	Accredited only for: 1. Input voltage: <60V 2. Rated input current: < 25
		5	Ground/Power Offset	General Specification for lectrical/Electronic Components-Environmental Durability GMW 3172—2012 9.2.11 Ground Offset 9.2.12 Power Offset	Accredited only for: 1. Input voltage:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					<60V 2. Rated input current: < 25 Only used for specified product of specified customer
				General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172—2018 9.2.11 Ground Offset 9.2.12 Power Offset	Accredited only for: 1. Input voltage: <60V 2. Rated input current: < 25 Only used for specified product of specified customer
		6	Over Load test	General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172—2012 9.2.14 Over Load-All Circuits 9.2.15 Over Load-Fuse Protected Circuits	Accredited only for: 1. Input voltage:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					<60V 2. Rated input current: < 25 Only used for specified product of specified customer
				General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172—2018 9.2.14 Over Load-All Circuits 9.2.15 Over Load-Fuse Protected Circuits	Accredited only for: 1. Input voltage: <60V 2. Rated input current: < 25
		7	Insulation Resistance test	Road vehicles-Environmental conditions and testing for electrical equipment Par2:Power Environment ISO 16750-2-2012 4.12 Insulation Resistance	Accredited only for: 1. Input voltage: <60V 2. Rated input current: < 25



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Electric and Electronic Components in Motor Vehicles up to 3,5t General Requirements, Test Conditions and Test Resistance VW 80000-2013 6.18	Accredited only for: 1. Input voltage: <60V 2. Rated input current: < 25
				General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172—2012 9.2.16 Insulation Resistance	Accredited only for: 1. Input voltage: <60V 2. Rated input current: < 25 Only used for specified product of specified customer
				Test methods for airborne suspension equipment GJB1063A-2008 6.3 Insulation Resistance Test	Accredited only for: 1. Input voltage: <60V 2. Rated



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					input current: <25
				General requirements and methods for airborne suspension test GJB1063-1991 6.3 Insulation Resistance Test 6.3 Insulation Resistance Test	Accredited only for: 1. Input voltage: <60V 2. Rated input current: <25
				General Specification for Electrical/Electronic Components-Environmental Durability GMW 3172—2018 9.2.16 Insulation Resistance	Accredited only for: 1. Input voltage: <60V 2. Rated input current: <25
4	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. Frequency: (1~4000)Hz 2. Thrust: ≤392kN 3. Load:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					≤6000kg(≤16000kg with assistant underprop) 4. Acceleration: ≤980m/s ² 5. Displacement(p-p): ≤200mm
		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. Frequency: (1~4000)Hz 2. Thrust: ≤392kN 3. Load: ≤6000kg(≤16000kg with assistant underprop) 4. Acceleration: ≤980m/s ²



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					5. Displacement(p-p): $\leq 200\text{mm}$
				The guidebook of the atomic equipments anti-earthquake test (1995-10-07) (1995-10-07) HAF.J0053	Accredited only for: 1. Frequency: (1~4000)Hz 2. Thrust: $\leq 392\text{kN}$ 3. Load: $\leq 6000\text{kg}$ ($\leq 16000\text{kg}$ with assistant underprop) 4. Acceleration: $\leq 980\text{m/s}^2$ 5. Displacement(p-p): $\leq 200\text{mm}$
		3	End loading test	Qualification of active mechanical equipment used in nuclear power plants Parts6:Functional qualification requirements for valve assemblies NB/T 20036.6-2011 5.6 End loading test	Maximum load: $\leq 70\text{ t}$, size: $4000\text{mm} \times 3$



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		4	Seismic static load test	Qualification of active mechanical equipment used in nuclear power plants Parts6:Functional qualification requirements for valve assemblies NB/T 20036.6-2011 5.8.3 Seismic static loading	000mm
				Qualification of Active Mechanical Equipment Used in Nuclear Power Plants ASME QME-1-2007	Maximum load: ≤70 t, size: 4000mm*3000mm
					Maximum load: ≤70 t, size: 4000mm*3000mm
5	Railway application	1	Vibration	Railway application - Rolling stock equipment-Shock and vibration tests GB/T 21563-2008	Accredited only for: 1. Frequency: (1~4000)Hz 2. Thrust: ≤392kN 3. Load: ≤6000kg(≤16000kg with assistant underprop) 4. Acceleration: ≤980m/s² 5.



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					Displacement(p-p): ≤51mm
				Railway applications-Electronic equipments used on rail vehicles GB/T 25119-2010	Accredited only for: 1. Frequency: (1~4000)Hz 2. Thrust: ≤392kN 3. Load: ≤6000kg(≤16000kg with assistant underprop) 4. Acceleration: ≤980m/s ² 5. Displacement(p-p): ≤51mm
				Railway application - Rolling stock equipment shock and vibration tests TB/T3058-2002	Accredited only for: 1. Frequency: (1~



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					4000)Hz 2. Thrust: ≤392kN 3. Load: ≤6000kg(≤ 16000kg with assistant underprop) 4. Acceleratio n: ≤980m/s² 5. Displacem ent(p-p): ≤51mm
				Air condition unit railway passengen car TB/T1804-2009	Accredited only for: 1. Frequency: (1~ 4000)Hz 2. Thrust: ≤392kN 3. Load: ≤6000kg(≤ 16000kg with assistant underprop)



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					4. Acceleration: $\leq 980\text{m/s}^2$ 5. Displacement(p-p): $\leq 51\text{mm}$
				TB/T 3021-2001 IEC 60571: 1998	Accredited only for: 1. Frequency: (1~4000)Hz 2. Thrust: $\leq 392\text{kN}$ 3. Load: $\leq 6000\text{kg}$ ($\leq 16000\text{kg}$ with assistant underprop) 4. Acceleration: $\leq 980\text{m/s}^2$ 5. Displacement(p-p): $\leq 51\text{mm}$



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Railway application - Rolling stock equipment-Shock and vibration tests IEC 61373(Edition 2.0) 2010-05	Accredited only for: 1. Frequency: (1~4000)Hz 2. Thrust: ≤392kN 3. Load: ≤6000kg(≤16000kg with assistant underprop) 4. Acceleration: ≤980m/s ² 5. Displacement(p-p:) ≤51mm
				Railway application - Rolling stock equipment-Shock and vibration tests BS EN 61373: 2010	Accredited only for: 1. Frequency: (1~4000)Hz 2. Thrust: ≤392kN



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					3. Load: ≤6000kg(≤16000kg with assistant underprop) 4. Acceleration: ≤980m/s² 5. Displacement(p-p): ≤51mm
				Rolling stock equipment-Shock and vibration tests JIS E 4031:2008	Accredited only for: 1. Frequency: (1~4000)Hz 2. Thrust: ≤392kN 3. Load: ≤6000kg(≤16000kg with assistant underprop) 4. Acceleration:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					≤980m/s ² 5. Displacement(p-p): ≤51mm
		2	Shock	Railway application - Rolling stock equipment-Shock and vibration tests GB/T 21563-2008	Accredited only for: 1. Waveforms: half-sine 2. Duration of pulse: ≤30ms 3. Thrust: ≤392kN 4. Load: ≤6000kg(≤16000kg with assistant underprop) 5. Acceleration: ≤980m/s ² 6. Displacement(p-p): ≤51mm 7. velocity: ≤2m/s



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
				Railway applications-Electronic equipments used on rail vehicles GB/T 25119-2010	Accredited only for: 1. Waveform s: half-sine 2. Duration of pluse: $\leq 30\text{ms}$ 3. Thrust: $\leq 392\text{kN}$ 4. Load: $\leq 6000\text{kg}(\leq 16000\text{kg}$ with assistant underprop) 5. Acceleratio n: $\leq 980\text{m/s}^2$ 6. Displacem ent(p-p): $\leq 51\text{mm}$ 7. velocity: $\leq 2\text{m/s}$
				Railway application - Rolling stock equipment shock and vibration tests TB/T 3058-2002	Accredited only for: 1. Waveform s: half-sine



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					2. Duration of pluse: $\leq 30\text{ms}$ 3. Thrust: $\leq 392\text{kN}$ 4. Load: $\leq 6000\text{kg}$ ($\leq 16000\text{kg}$ with assistant underprop) 5. Acceleration: $\leq 980\text{m/s}^2$ 6. Displacement(p-p): $\leq 51\text{mm}$ 7. velocity: $\leq 2\text{m/s}$
				Rolling stock electric equipment TB/T 3021-2001 IEC 60571: 1998	Accredited only for: 1. Waveforms: half-sine 2. Duration of pluse: $\leq 30\text{ms}$ 3. Thrust: $\leq 392\text{kN}$



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					4. Load: ≤6000kg(≤ 16000kg with assistant underprop) 5. Acceleratio n: ≤980m/s ² 6. Displacem ent(p-p): ≤100mm 7. velocity: ≤2m/s
				railway rolling stock components shock test methods TB/T 2988-2000	Accredited only for: 1. Waveform s: half-sine 2. Duration of pluse: ≤30ms 3. Thrust: ≤392kN 4. Load: ≤6000kg(≤ 16000kg with assistant



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					underprop) 5. Acceleration: $\leq 980\text{m/s}^2$ 6. Displacement(p-p): $\leq 51\text{mm}$ 7. velocity: $\leq 2\text{m/s}$
				Railway application - Rolling stock equipment-Shock and vibration tests IEC 61373:2010	Accredited only for: 1. Waveforms: half-sine 2. Duration of pluse: $\leq 30\text{ms}$ 3. Thrust: $\leq 392\text{kN}$ 4. Load: $\leq 6000\text{kg}(\leq 16000\text{kg}$ with assistant underprop) 5. Acceleration: $\leq 980\text{m/s}^2$



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					6. Displacement(p-p): ≤51mm 7. velocity: ≤2m/s
				Railway applications - Railway stock equipment - Shock and vibration tests BS EN 61373: 2010	Accredited only for: 1. Waveforms: half-sine 2. Duration of pulse: ≤30ms 3. Thrust: ≤392kN 4. Load: ≤6000kg(≤16000kg with assistant underprop) 5. Acceleration: ≤980m/s ² 6. Displacement(p-p): ≤51mm 7. velocity:



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
					≤2m/s
				Rolling stock equipment-Shock and vibration tests JIS E 4031:2008	Accredited only for: 1. Waveform s: half-sine 2. Duration of pluse: ≤30ms 3. Thrust: ≤392kN 4. Load: ≤6000kg(≤16000kg with assistant underprop) 5. Acceleration: ≤980m/s ² 6. Displacement(p-p): ≤51mm 7. velocity: ≤2m/s



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