

Test report

Test items	IK protection level test
Test object	LWW-D80
Purpose of detection	Verify the IK protection grade of LWW-D80 product
Test time	2024-02-03
Testing equipment	Standard Code: GB/T 2423.55-2006 Standard Name: Environmental testing for electrical and electronic products-Part 2: Test methods Test Eh: Environmental testing for electric and electronic products--Part 2: Test methods--Test Eh: hammer tests) (Environmental testing for electric and electronic products--Part 2: Test Methods --Test EH: Hammer tests) IK grade test equipment, 0.5KG, 1.7KG, 5KG metal hammer, tape measure
Test method and procedure: Refer to GB/T 2423.55-2006 (IEC 60068-2-75:1997) Environmental testing for electrical and electronic products - Part 2: Test methods Test Eh: Hammer test and GBT 20138-2006 (IEC62262:2002) electrical equipment shell to the external mechanical collision protection standard content of the test	
Test data: 1. Record the state of the sample before the test.	
	
Product in good condition	

2. Fixed impact hammer test according to IK07 grade requirements (40cm height, 0.5KG weight hammer, 2J energy).



The 0.5KG metal hammer



40CM high

3. After the impact, record the appearance data of the sample. Test result: there is no obvious trace on the surface after the hammer



测试人：韦相在

审核人：

日期：

4. Fixed impact hammer test according to IK08 grade requirements (30cm height, 1.7KG weight hammer, 5J energy).



1.7KG metal hammer



height 30CM

5. After the impact, record the appearance data of the sample. Test result: there is no obvious trace on the surface after the hammer



测试人：韦相在

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6. Fixed impact hammer test according to IK09 grade requirements (20cm height, 5KG weight hammer, 10J energy).

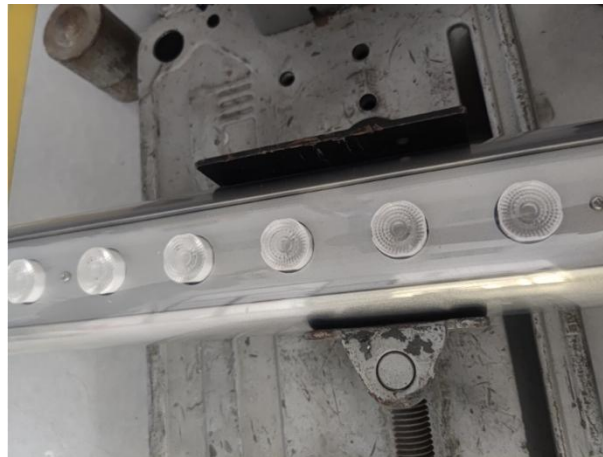


The 5KG metal hammer



20CM high

7. After the impact, record the appearance data of the sample. Test result: there are no obvious marks on the surface after the hammer



测试人：韦相在

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8. Fixed impact hammer test according to IK10 grade requirements (40cm height, 5KG weight hammer, 20J energy).

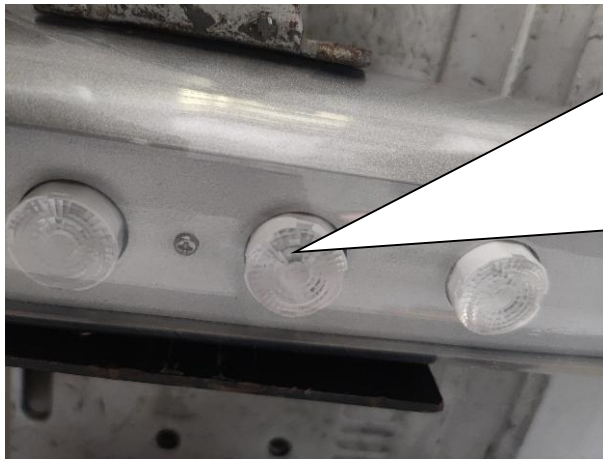


The 5KG metal hammer



40CM high

9. After the impact, record the appearance data of the sample. Test result: after the hammer, there are traces on the surface without rupture, but the lens is obviously damaged



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Attached table: IK grade test standard reference table

Table 1 Correspondence of IK codes and their corresponding collision energies

IK CODE	IK00	IK01	IK02	IK03	IK04	IK05	IK06	IK07	IK08	IK09	IK10
collision Energy /J	a	0.14	0.2	0.35	0.5	0.7	one	2	5	10	20

Note 1: 50J is recommended if higher collision energy is required

Note 2: Some national standards use a digit to represent the specified collision energy, in order to avoid confusion, so the characteristic digit is chosen to represent two digits.

a According to this standard is no protection.

Table 2 Drop height

Energy / J	0.14	0.2		(0.3)	0.35	(0.4)	0.5		0.7	one	2	5	10	20	50
kg Equivalent mass/drop height, ±1%/mm	0.25	(0.2)	0.25	(0.2)	0.25	(0.2)	(0.2)	0.25	0.25	0.25	0.5	1.7	5	5	10
	56	(100).	80	(150).	140	(200).	(250).	200	280	400	400	300	200	400	500

Note 1: See Note 3.2.2.

Note 2: The unit of energy in this section, Joule (J), is derived from the standard acceleration of gravity (ga). g. The warp value is 10 m/s2

Test results:

Through the appeal test data, it is proved that IK07 grade 2J, 0.5KG weight, 400MM height, glass breakage occurs after the test hammer. According to the national standard GB/T 20138-2006 /IEC 62262:2002 Article 4.4 test and GB/T 20138-2006 /IEC 62262:20024.2 Table 1 content and article 6, the IK grade of LWW-D80 surface was judged to pass IK09

The final conclusion of test:

According to the above test data analysis, the protection level of LWW-D80 IK grade surface against external mechanical collision meets the requirements of IK09; The results of this experiment are only responsible for the sample results.

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