

TEST REPORT

EN 60529

Degrees of protection provided by enclosures(IP code)

Report Number:	KTI250928S2437	
Tested by (name + signature) :	Wisdom Xu	<i>Wisdom Xu</i>
Reviewed by (+ signature) :	Taoist Wang	<i>TAW</i>
Approved by (name + signature) ...:	Store Chu	<i>Store Chu</i>
Date of issue:	Oct. 14, 2025	
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Testing Laboratory Name:	Guangdong KAIXU Testing Technology Co., Ltd.	
Address:	Room 215, Building 2, No. 123, Dongcheng Section, Guanlong Road, Dongcheng Street, Dongguan City, Guangdong Province, China	
Applicant's name:	NINGBO RABBIT ELECTRICAL APPLIANCE CO.,LTD.	
Address:	NO.22 XINGYE ROAD, INDUSTRIAL AREA, YANGMING YUYAO, ZHEJIANG	
Manufacturer name:	NINGBO RABBIT ELECTRICAL APPLIANCE CO.,LTD.	
Address:	NO.22 XINGYE ROAD, INDUSTRIAL AREA, YANGMING YUYAO, ZHEJIANG	
Test specification:		
Standard :	<input type="checkbox"/> IEC 60529:2013 + A1:2013 <input checked="" type="checkbox"/> EN 60529:1992 + A1:2000 + A2:2013	
Test procedure:	Safety report	
Non-standard test method :	N/A	
Test item description:	BIRD REPELLER	
Trade Mark:	/	
Model/Type reference:	FR-868	
IP degrees:	IP44	

List of Attachments (including a total number of pages in each attachment):

This report is only for applicant use. Any copying this report to/for any other person or entity, and use our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification

List of Attachments:

Annex I: Photos documents, 1 pages.

Summary of testing:

The tested samples fulfilled the requirements of specified standards.

Testing location:

Guangdong KAIXU Testing Technology Co., Ltd.

Room 215, Building 2, No. 123, Dongcheng Section, Guanlong Road, Dongcheng Street, Dongguan City, Guangdong Province, China

Summary of compliance with National Differences**List of countries addressed:**

The product fulfils the requirements of EN 60529:1992 + A1:2000 + A2:2013

Remark: /

Possible test case verdicts:

- test case does not apply to the test object..... : N/A
- test object does meet the requirement..... : P (Pass)
- test object does not meet the requirement..... : F (Fail)

Testing..... :

- Date of receipt of test item..... :** 2025-09-28
- Date (s) of performance of tests..... :** 2025-09-28 to 2025-10-11

General remarks:

The test results presented in this report relate only to the object tested.
 This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.
 "(See Enclosure #)" refers to additional information appended to the report.
 "(See appended table)" refers to a table appended to the report.

Throughout this report a comma / point is used as the decimal separator.

Name and address of factory (ies)..... : NINGBO RABBIT ELECTRICAL APPLIANCE CO.,LTD.
 NO.22 XINGYE ROAD, INDUSTRIAL AREA,
 YANGMING YUYAO, ZHEJIANG

General product information:

- 1.The appliance/equipment is "BIRD REPELLER" with model "FR-868".
- 2.All test(s) were performed on model "FR-868".
- 3.The ambient temperature is 25°C.

EN 60529			
Clause	Requirement + Test	Result - Remark	Verdict
5	Degrees of protection against access to hazardous parts and against solid foreign objects indicated by the first characteristic numeral	IP4X	P
5.1	Protection against access to hazardous parts		P
5.2	Protection against solid foreign objects		P
6	Degrees of protection against ingress of water indicated by the second characteristic numeral	IPX4	P
7	Degrees of protection against access to hazardous parts indicated by the additional letter		N/A
8	Supplementary letters		N/A
9	Examples of designations with the IP Code		--
9.1	IP Code not using optional letters:		--
9.2	IP Code using optional letters:		--
10	Marking		P
	The requirements for marking shall be specified in the relevant product standard.		P
	Where appropriate, such a standard should also specify the method of marking which is to be used when:		N/A
	- one part of an enclosure has a different degree of protection to that of another part of the same enclosure		N/A
	- the mounting position has an influence on the degree of protection		N/A
	- the maximum immersion depth and time are indicated		N/A
11	General requirements for tests		P
11.1	Atmospheric conditions for water or dust tests	24.7-25.3°C, 46.5-54.3%R.H.	P
11.2	Test samples		P
11.3	Application of test requirements and interpretation of test results		P
11.4	Combination of test conditions for the first characteristic numeral	IP4X	P
11.5	Empty enclosures		P

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Clause	Requirement + Test	Result - Remark	Verdict

12	Test for protection against access to hazardous parts indicated by the first characteristic numeral		N/A
12.1	Access probes		N/A
12.2	Test conditions		N/A
12.3	Acceptance conditions		N/A
12.3.1	For low-voltage equipment. (Rated voltage not exceeding 1000V a.c. and 1500V d.c.)		N/A
12.3.2	For high-voltage equipment (Rated voltage exceeding 1000V a.c. and 1500V d.c.)		N/A
12.3.3	For equipment with hazardous mechanical parts		N/A

13	Test for protection against solid foreign objects indicated by the first characteristic numeral		P
13.1	Test means		P
	Test means and the main test conditions are given in table 7		P
13.2	Test conditions for first characteristic numerals 1, 2, 3, 4		P
13.3	Acceptance conditions for first characteristic numerals 1, 2, 3, 4		P
13.4	Dust test for first characteristic numerals 5 and 6		N/A
13.5	Special conditions for first characteristic numeral 5		N/A
13.5.1	Test conditions for first characteristic numeral 5		N/A
13.5.2	Acceptance conditions for first characteristic numeral 5		N/A
13.6	Special conditions for first characteristic numeral 6		N/A
13.6.1	Test conditions for first characteristic numeral 6		N/A
13.6.2	Acceptance conditions for first characteristic numeral 6		N/A

14	Test for protection against water indicated by the second characteristic numeral		P
14.1	Test means		P
	The test means and the main test conditions are given in table 8	IPX4	P
14.2	Test conditions		P
	Test means and main test conditions are given in table 8		P
	During the tests for IPX1 to IPX6 the water temperature should not differ by more than 5K from the temperature of the specimen under test		P

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Clause	Requirement + Test	Result - Remark	Verdict
	For IPX7 and IPX9 details of the water temperature are given in 14.2.7 and 14.2.9 respectively		N/A
14.2.1	Test for second characteristic numeral 1 with the drip box		N/A
14.2.2	Test for second characteristic numeral 2 with the drip box		N/A
14.2.3	Test for second characteristic numeral 3 with oscillating tube or spray nozzle		N/A
14.2.4	Test for second characteristic numeral 4 with oscillating tube or spray nozzle		P
14.2.5	Test for second characteristic numeral 5 with the 6.3 mm nozzle		N/A
14.2.6	Test for second characteristic numeral 6 with the 12.5 mm nozzle		N/A
14.2.7	Test for second characteristic numeral 7: temporary immersion between 0.15 m and 1 m		N/A
	The test is made by completely immersing the enclosure in water in its service position as specified by the manufacturer so that the following conditions are satisfied		N/A
	a) the lowest point of enclosures with a height less than 850 mm is located 1000 mm below the surface of the water		N/A
	b) the highest point of enclosures with a height equal to or greater than 850 mm is located 150 mm below the surface of the water		N/A
	c) the duration of the test is 30 min		N/A
	d) the water temperature does not differ from that of the equipment by more 5K		N/A
14.2.8	Test for second characteristic numeral 8: continuous immersion subject to agreement		N/A
14.2.9	Test for second characteristic numeral 9 by high pressure and temperature water jetting		N/A
14.3	Acceptance condition	No dangerous	P
	After testing in accordance with the appropriate requirements of 14.2.1 to 14.2.9, the enclosure shall be inspected for ingress of water	No affect the safety	N/A
	It is the responsibility of the relevant technical committee to specify the amount of water which may be allowed to enter the enclosure and the details of a dielectric strength test		P
	In general, if any water has entered, it shall not:	No affect the safety	P
	- be sufficient to interfere with the correct operation of the equipment or impair safety	No such parts	N/A

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Clause	Requirement + Test	Result - Remark	Verdict

	- deposit on insulation parts where it could lead to tracking along the creepage distances	No such parts	N/A
	- reach live parts or windings not designed to operated when wet	No such parts	N/A
	- accumulate near the cable end or enter the cable if any		N/A
	If the enclosure is provided with drain-holes, it should be proved by inspection that any water which enters does not accumulate and that it drains away without doing any harm to the equipment		N/A
	For enclosure without drain-holes, the relevant product standard shall specify the acceptance conditions if water can accumulate to reach live parts		N/A

15	Test for protection against access to hazardous parts indicated by the additional letter		N/A
15.1	Access probes		N/A
15.2	Test conditions		N/A
15.3	Acceptance conditions		N/A
	Test for the additional letter B		N/A
	Test for the additional letter C and D		N/A

Tset photo



Product photo



===End of the report===