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Report No.: CTB220817022Q

TEST REPORT

IEC 60529

Report reference No	:	CTB220817022Q	
Date of issue	Ċ	September 02, 2022	
Testing laboratory			
Name		Shenzhen CTB Testing Techonology Co., Ltd.	
Address	ċ	Floor 1&2, Building A, No. 26 of Xinhe Road, Xinqiao Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, China	
Testing location	÷	Same as above	
Client	V		
Applicant	ć	Guangzhou LightSource Electronics Limited	
Address	:	No #163,Shixin road,Xingtang town,Zengcheng District ,Guangzhou C ty,Guangdong Province,China	
Test specification			
Standard	ċ	IEC 60529:1989+A1:1999+A2:2013	
Procedure deviation	:	N/A & & & & & & & & & & & & & & & & & & &	
Non-standard test method	Ċ	N/AC C C C C C C C	
Object under test	1	Smart Door Lock	
Model/Type reference	Ģ		
Others Model	÷	Series see page 2	
Trade mark	Ģ	LILIWISE	
Manufacturer	ċ	Guangzhou LightSource Electronics Limited	
Address	:	No #163,Shixin road,Xingtang town,Zengcheng District ,Guangzhou City,Guangdong Province,China	
IP degrees	Ģ	IP55	
Possible test case verdicts		SY SY SY SY SY SY SY SY SY	
		test object: N/A(Not Applicable)	
- test object does meet the red	10		
- test object does not meet the			
		:: August 17, 2022	
Date(s) of performance of test Laboratory sample number		:: August 18 - 19, 2022 : 220817013-1,2	

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General remarks:

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

-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 testing laboratory.

Remark:

The difference between T7 and others only appearance and model name, does not affect the dustproof and waterproof performance of the product. All tests are carried out only on model T7.

Serie smodels:

T7A-TB、T7A-YW、T7A-YZ、T7A-TBW、T7B-TB、T7B-YW、T7B-YZ、T7B-TBW

Comments:

• The First characteristic number 5 indicates prevent solid foreign objects test The conditions:

1. Test duration:8h

2.Equipment pressure:<2kPa

- The second characteristic number 5 indicates the water spray test The conditions:
 - 1. Test duration:3min
 - 2. Water flow:(12.5±0.5)L/min
 - 3. Internal diameter of the nozzle:6.3mm
 - Distance from nozzle to enclosure surface:2.5m

Summary of testing:

The submitted sample were tested and found to compliance with requirements of the standards IEC 60529:1989+A1:1999+A2:2013

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Page 3 of 10 Report No.: CTB220817022Q Testing procedure and testing location Shenzhen CTB Testing Technology Co., Ltd. Laboratory name..... Floor 1&2, Building A, No. 26 of Xinhe Road, Xinqiao Community, Xinqiao Testing location/address: Street, Baoan District, Shenzhen, Guangdong, China Wu Liang **Tested By** Wn Liang (Test Engineer) Jerry Qin **Reviewed By** Jerry Qin (Supervisor) Approved By Finerb Bai (Chief Engineer)



IEC 60529				
Clause	Requirement – Test	Result - Remark	Verdic	
2° 3				
11	General requirements for tests		P	
11.1	Atmospheric conditions for water or dust tests	25.0°C, 50%R.H.	P	
11.2	Test samples		P	
11.3	Application of test requirements and interpretation of test results	5 ⁸ c 1 ⁸ c 1 ⁸ c 1 ⁸ c 1	Р	
11.4	Combination of test conditions for the first IP5X characteristic numeral		P	
11.5	Empty enclosures		N/A	
12	Test for protection against access to hazardous part characteristic numeral	ts indicated by the fist	N/A	
12.1	Access probes		N/A	
12.2	Test conditions	A 4 4 4 4	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 indic numeral	cated by the first characteristic	Р	
13.1	Test means		Р	
5 8 5	Test means and the main test conditions are given in table 7	5 th c 1 th c 1 th c 1	Р	
13.2	Test conditions for first characteristic numerals 1, 2, 3, 4	10 10 10 10 10	N/A	
13.3	Acceptance conditions for first characteristic numerals 1, 2, 3, 4	A 19 19 19 1	N/A	
13.4	Dust test for first characteristic numerals 5 and 6 IP5X		P	
13.5	Special conditions for first characteristic numeral 5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Р	
13.5.1	Test conditions for first characteristic numeral 5	0.0.0.0	Р	
13.5.2	Acceptance conditions for first characteristic numeral 5	No ingress of dust	P	
13.6	Special conditions for first characteristic numeral 6	A 6 6 6 6	N/A	
13.6.1	Test conditions for first characteristic numeral 6		N/A	



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Clause	Requirement – Test	Result - Remark	Verdict	
13.6.2	Acceptance conditions for first characteristic numeral 6		N/A	
14	Test for protection against water indicated by the se	cond characteristic numeral	Р	
14.1	The test means and the main test conditions are given in table 8	IPX5	P	
14.2	Test conditions	0.0.0.0	Р	
58 65	Test means and main test conditions are given in table 8	5° 65° 65° 65° 6	Р	
5 ° 5	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	
ి రి	For IPX7 details of the water temperature are given in 14.2.7	్ ర్ ర్ ర్ ర	N/A	
	Test for second characteristic numeral 8, the test conditions are subject to agreement between manufacturer and user, but they shall be more severe than those prescribed in 14.2.7 and they shall take account of the condition than the enclosure will be continuously immersed in actual use		N/A	
14.2.1	Test for second characteristic numeral 1 with the drip box	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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		N/A	
14.2.5	Test for second characteristic numeral 5 with the 6.3mm nozzle	5° 65° 65° 65° 6	P	
14.2.6	Test for second characteristic numeral 6 with the 12.5mm nozzle	5 th 5 th 5 th 5	N/A	
im Th er sp cc a) th	Test for second characteristic numeral 7: temporary immersion between 0.15m and 1m	1 5 1 5 1 5 h	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 850mm is located 1000mm below the surface of the water		N/A	



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Clause	Requirement – Test	Result - Remark	Verdict
A .		<u> </u>	<u> </u>
ن °ز م هم	b) the highest point of enclosures with a height equal to or greater than 850mm is located 150mm below the surface of the water	ి లో లో లో టి ని ని ని	C N/A
	c) the duration of the test is 30min		N/A
5 ⁵⁸ 55	d)the water temperature does not differ from that of the equipment by more 5K	5° CT ° CT ° CT °	N/A
14.2.8	Test for second characteristic numeral 8: continuous immersion subject to agreement	5 8 c 5 8 c 5 8 c 5 8	N/A
14.3	After testing in accordance with the appropriate requirements of 14.2.1 to 14.2.8 the enclosure shall be inspected for ingress of water	No ingress of water	C P Q
5 ¹ 2 2 1 2 2	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	5 ¹⁰ 05 ¹⁰ 05 ¹⁰ 05 ¹⁰ 5 ¹⁰ 7 ¹⁰ 7 ¹⁰ 7 ¹⁰	N/A
	In general, if any water has entered, it shall not:		N/A
580	-be sufficient to interfere with the correct operation of the equipment or impair safety	5° 67° 67° 67°	N/A
58 5	-deposit on insulation parts where it could lead to tracking along the creepage distances	5 to 1 to 1 to 1	N/A
58 5	 –reach live parts or windings not designed to operated when wet 	5 5 5 5 5 5 5 5 S	N/A
58.5	-accumulate near the cable end or enter the cable if any	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
58 05	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
58.5	For enclosure without drain-holes, the relevant product standard shall specify the acceptance conditions if water can accumulate to reach live parts		N/A



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Clause	Requirement – Test	Result - Remark	Verdict	
2		<u> </u>	<u>\$ \$</u>	
15	Test for protection against access to hazardous par letter	ts indicated by the additional	N/A	
15.1	Access probes	No additional letter	N/A	
	The access probe are given in table 6	A A A A	N/A	
15.2	Test conditions		N/A	
	The access probe is pushed against any openings of the enclosure with the force specified in table 6	5 th 5 th 5 th 5 th 5	N/A	
15.3	Acceptance conditions		N/A	
5 6	Test for the additional letter B		N/A	
	Test for the additional letter C and D	6 6 6 6	N/A	

APPENDIX

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Photo 3: (internal) After dust test



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******End of this report*****