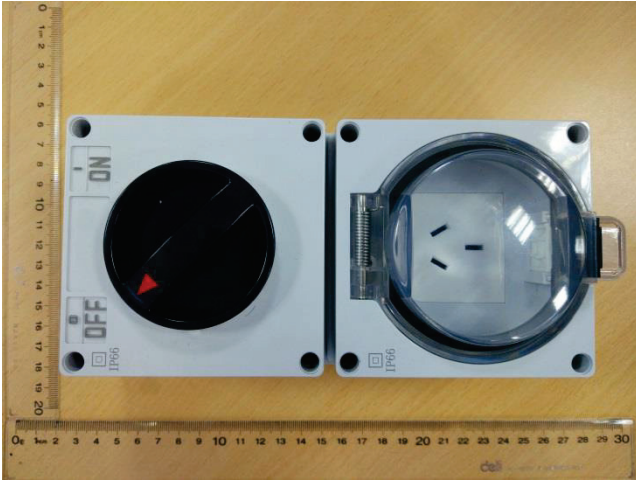




<b>Prüfbericht-Nr.:</b> <i>Test Report No.:</i>	<b>50143315 001</b>	<b>Auftrags-Nr.:</b> <i>Order No.:</i>	<b>154325415</b>	Seite 1 von 19 <i>Page 1 of 19</i>
<b>Kunden-Referenz-Nr.:</b> <i>Client Reference No.:</i>	<b>608072</b>	<b>Auftragsdatum:</b> <i>Order date:</i>	<b>25.04.2018</b>	
<b>Auftraggeber:</b> <i>Client:</i>	<b>Wenzhou Yingrun Electrical Co., Ltd.</b> <i>No. 57, Xilong Road, Yueqing, Zhejiang 325604, P. R. China</i>			
<b>Prüfgegenstand:</b> <i>Test item:</i>	<b>Waterproof switch socket</b>			
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type No.:</i>	<b>YRL66-U</b>			
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	<b>Perform IP66 test</b>			
<b>Prüfgrundlage:</b> <i>Test specification:</i>	<b>Only test clause 13 and 14 of IEC 60529</b>			
<b>Wareneingangsdatum:</b> <i>Date of receipt:</i>	<b>14.06.2018</b>			
<b>Prüfmuster-Nr.:</b> <i>Test sample No.:</i>	<b>A000758916</b>			
<b>Prüfzeitraum:</b> <i>Testing period:</i>	<b>19.06.2018-06.07.2018</b>			
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	<b>TÜV Rheinland (Shanghai) Co., Ltd.</b>			
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	<b>TÜV Rheinland (Shanghai) Co., Ltd.</b>			
<b>Prüfergebnis*:</b> <i>Test result*:</i>	<b>Pass</b>			
<b>geprüft von / tested by :</b>		<b>kontrolliert von / reviewed by:</b>		
13.07.2018	Tonghui Wu / PE		17.07.2018	Wencai Zhang / TC
<b>Datum</b> <i>Date</i>	<b>Name / Stellung</b> <i>Name / Position</i>	<b>Unterschrift</b> <i>Signature</i>	<b>Datum</b> <i>Date</i>	<b>Name / Stellung</b> <i>Name / Position</i>
				
				<b>Unterschrift</b> <i>Signature</i>
<b>Sonstiges / Other:</b>				
This report is created for only IP test according to the requirement of the client.				
Attachment 1: Measurement equipment list. (1 page )				
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>		<b>Prüfmuster vollständig und unbeschädigt</b> <i>Test item complete and undamaged</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
<b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b> <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				



<b>TEST REPORT</b> <b>IEC 60529 / EN 60529</b> <b>Degrees of protection provided by enclosures (Ip code)</b>	
<b>Report Reference No.</b> .....	50143315 001
Tested by (name + signature) .....	See cover page .....
Witnessed by (name + signature) .....	N/A .....
Supervised by (name + signature) .....	N/A .....
Approved by (name + signature).....	See cover page .....
Date of issue.....	See cover page
<b>Testing Laboratory</b> .....	<b>TÜV Rheinland (Shanghai) Co., Ltd.</b>
Address .....	No. 177, 178, Lane 777 West Guangzhong Road, Jing'an District Shanghai, China
Testing location / procedure .....	<b>TÜV Rheinland (Shanghai) Co., Ltd.</b>
Testing location / address .....	No. 177, 178, Lane 777 West Guangzhong Road, Jing'an District Shanghai, China
<b>Applicant's name</b> .....	<b>Wenzhou Yingrun Electrical Co., Ltd.</b>
Address .....	No. 57, Xilong Road, Yueqing, Zhejiang 325604, P. R. China
<b>Test specification:</b>	
Standard .....	IEC 60529: 1989-11 + A1:1999 EN 60529 :1991-10 (incl. Corrigendum: 1993-05 ) + A1: 2000-02
Test procedure .....	Test report
Non-standard test method.....	N/A
<b>Test Report Form No.</b> .....	IECEN60529A
TRF Originator.....	IMQ
Master TRF.....	Dated 2006-06
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**Test item description** .....

Trade Mark .....: N/A

Manufacturer .....: Wenzhou Yingrun Electrical Co., Ltd.

Model and/or Type reference .....: YRL66-U

Rating(s) .....: IP66

**Copy of marking plate**



**Summary of testing:**

**The results of IP degree tests were valid only for the coming samples.  
And YRL66-U was performed IP66 tests.**

**All tests were passed.**

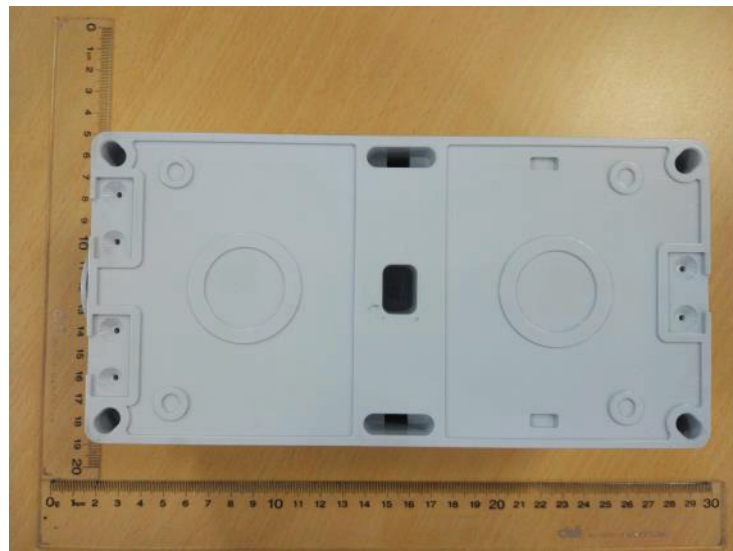
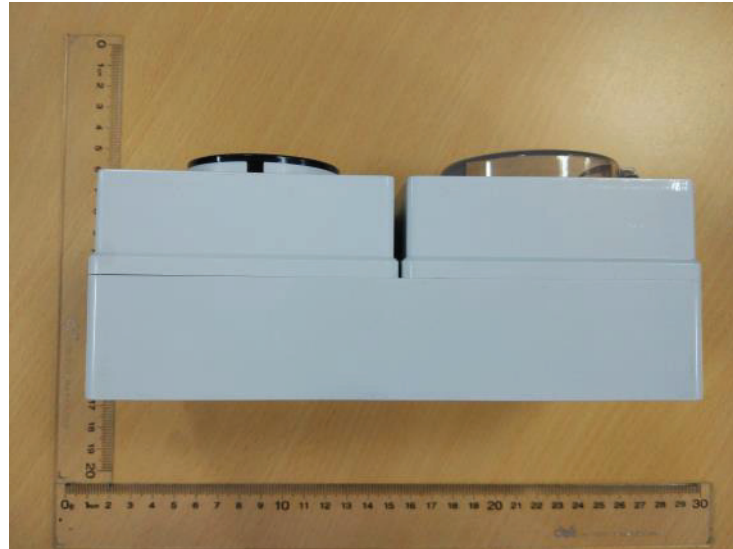
<b>Test item particulars</b> :	
- Classification of installation and use :	N/A
- Supply Connection :	N/A
<b>Possible test case verdicts:</b>	
- test case does not apply to the test object.....:	N/A
- test object does meet the requirement.....:	P(Pass)
- test object does not meet the requirement.....:	F(Fail)
<b>Testing</b> .....	
Date of receipt of test item .....	14.06.2018
Date(s) of performance of tests .....	19.06.2018 to 06.07.2018
<b>General remarks:</b>	
<p>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.</p> <p>"(see Enclosure #)" refers to additional information appended to the report.                  "(see appended table)" refers to a table appended to the report.</p> <p>Throughout this report a comma (<del>point</del>) is used as the decimal separator.</p>	
<b>General product information</b>	
N/A	

Photo:











IEC/EN 60529					
Clause	Requirement – Test			Result	Verdict
5	<b>DEGREES OF PROTECTION AGAINST ACCESS TO HAZARDOUS PARTS AND AGAINST SOLID FOREIGN OBJECTS INDICATED BY THE FIRST CHARACTERISTIC NUMERAL</b>				—
6	<b>DEGREES OF PROTECTION AGAINST INGRESS OF WATER INDICATED BY THE SECOND CHARACTERISTIC NUMERAL</b>				—
7	<b>DEGREES OF PROTECTION AGAINST ACCESS TO HAZARDOUS PARTS INDICATED BY THE ADDITIONAL LETTER</b>				—
8	<b>SUPPLEMENTARY LETTERS</b>				—
9	<b>EXAMPLES OF DESIGNATIONS WITH THE IP CODE</b>				—
10	<b>MARKING</b>				—
11	<b>GENERAL REQUIREMENTS FOR TESTS</b>				—
12	<b>TESTS FOR PROTECTION AGAINST ACCESS TO HAZARDOUS PARTS INDICATED BY THE FIRST CHARACTERISTIC NUMERAL</b>				—
13	<b>TESTS FOR PROTECTION AGAINST SOLID FOREIGN OBJECTS INDICATED BY THE FIRST CHARACTERISTIC NUMERAL ( Both Metal enclosure and Stainless steel enclosure )</b>				—
13.1	<b>Test means</b>				—
	Test means and the main test conditions are given in Tab. VII.				P
	Tab. VII-7 <b>Test means for the tests for protection against solid foreign objects</b>				—
	<b>First characteristic numeral</b>	<b>Test means</b>	<b>Test force</b>	<b>Test conditions</b>	—
	0	<i>No test required</i>	—	—	N/A
	1	<i>Rigid sphere without handle or guard 50 mm diameter</i>	50 N ± 10%	13.2	N/A
	2	<i>Rigid sphere without handle or guard 12,5 mm diameter</i>	30 N ± 10%	13.2	N/A
	3	<i>Rigid steel rod 2,5 mm diameter with edges free from burrs</i>	3 N ± 10%	13.2	N/A

IEC/EN 60529					
Clause	Requirement – Test		Result		Verdict
	4	<i>Rigid steel wire 1 mm diameter with edges free from burrs</i>	1 N ± 10%	13.2	N/A
	5	<i>Dust chamber Fig. 2, with or without underpressure</i>	—	13.4 and 13.5	N/A
	6	<i>Dust chamber Fig. 2, with underpressure</i>	—	13.4 and 13.6	P
13.2	<b>Test conditions for first characteristic numerals 1, 2, 3, 4</b>				—
	The object probe is pushed against any openings of the enclosure with the force specified in Tab. VII.				N/A
13.3	<b>Acceptance conditions for first characteristic numerals 1, 2, 3, 4</b>				—
	The protection is satisfactory if the full diameter of the probe specified in Table VII does not pass through any opening.		(EN 60529/A1)		N/A
13.4	<b>Dust test for first characteristic numerals 5 and 6</b>				—
	The test is made using a dust chamber incorporating the basic principles shown in Fig. 2 whereby the powder circulation pump may be replaced by other means suitable to maintain the talcum powder in suspension in a closed test chamber. The talcum powder used shall be able to pass through a square-meshed sieve the nominal wire diameter of which is 50 mm and the nominal width of a gap between wires 75 mm. The amount of talcum powder to be used is 2 kg per cubic metre of the test chamber volume. It shall not have been used for more than 20 tests.		(EN 60529/A1)		P
	Enclosures are of necessity in one of two categories:				—
	Category 1: Enclosures where the normal working cycle of the equipment causes reductions in air pressure within the enclosure below that of the surrounding air, e.g., due to thermal cycling effects.		YRL66-U: IP66		P
	Category 2: Enclosures where no pressure difference relative to the surrounding air is present				N/A
	<i>Category 1 enclosures:</i>				—
	The enclosure under test is supported inside the test chamber and the pressure inside the enclosure is maintained below the surrounding atmospheric pressure by a vacuum pump.				P
	The suction connection shall be made to a hole specially provided for this test.				P

IEC/EN 60529			
Clause	Requirement – Test	Result	Verdict
	If not otherwise specified in the relevant product standard, this hole shall be in the vicinity of the vulnerable parts.		P
	If it is impracticable to make a special hole, the suction connection shall be made to the cable inlet hole.		N/A
	If there are other holes (e.g., more cable inlet holes or drain-holes) these shall be treated as intended for normal use on site.		N/A
	The object of the test is to draw into the enclosure, by means of depression, a volume of air 80 times the volume of the sample enclosure tested without exceeding the extraction rate of 60 volumes per hour. .		P
	In no event shall the depression exceed 2 kPa (20 mbar) on the manometer shown in Fig. 2.		P
	If an extraction rate of 40 to 60 volumes per hour is obtained the duration of the test is 2 h.		P
	If, with a maximum depression of 2 kPa (20 mbar), the extraction rate is less than 40 volumes per hour, the test is continued until 80 volumes have been drawn through, or a period of 8 h has elapsed.		N/A
	or a period of 8 h has elapsed.		N/A
	<i>Category 2 enclosures:</i>		—
	The enclosure under test is supported in its normal operating position inside the test chamber, but is not connected to a vacuum pump.		N/A
	Any drain-hole normally open shall be left open for the duration of the test.		N/A
	The test shall be continued for a period of 8		N/A
	<i>Category 1 and category 2 enclosures:</i>		—
	If it is impracticable to test the complete enclosure in the test chamber, one of the following procedures shall be applied:		N/A
	testing of individually enclosed sections of the enclosure;		N/A
	testing of representative parts of the enclosure, comprising components such as doors, ventilation openings, joints, shaft seals, etc., in position during test;		N/A
	testing of a smaller enclosure having the same full-scale design details.		N/A

IEC/EN 60529			
Clause	Requirement – Test	Result	Verdict
	In the last two cases, the volume of air to be drawn through the enclosure under test shall be the same as for the whole enclosure in full scale		N/A
13.5	<b>Special conditions for first characteristic numeral 5</b>		—
13.5.1	<b>Test conditions for first characteristic numeral 5</b>		—
	The enclosure shall be deemed category 1 unless the relevant product standard for the equipment specifies that the enclosure is category 2.		N/A
13.5.2	<b>Acceptance conditions for first characteristic numeral 5</b>		—
	The protection is satisfactory if, on inspection, talcum powder has not accumulated in a quantity or location such that, as with any other kind of dust, it could interfere with the correct operation of the equipment or impair safety.		N/A
	Except for special cases to be clearly specified in the relevant product standard, no dust shall deposit where it could lead to tracking along the creepage distances.		N/A
13.6	<b>Special conditions for first characteristic numeral 6</b>		—
13.6.1	<b>Test conditions for first characteristic numeral 6</b>		—
	The enclosure shall be deemed category 1, whether reductions in pressure below the atmospheric pressure are present or not.		P
13.6.2	<b>Acceptance conditions for first characteristic numeral 6</b>		—
	The protection is satisfactory if no deposit of dust is observable inside the enclosure at the end of the test.	<b>YRL66-U: IP66</b> No trace of dust.	P

IEC/EN 60529						
Clause	Requirement – Test				Result	Verdict
14	<b>TESTS FOR PROTECTION AGAINST WATER INDICATED BY THE SECOND CHARACTERISTIC NUMERAL ( Both Metal enclosure and Stainless steel enclosure )</b>					—
14.1	<b>Test means</b>					—
	The test means and the main test conditions are given in Tab. VIII.					P
	Tab. VIII-8 <b>Test means and main test conditions for the tests for protection against water</b>					—
	<b>Second charact. numeral</b>	<b>Test means</b>	<b>Water flow rate</b>	<b>Duration of test</b>	<b>Test conditions</b>	P
	0	No test required	—	—	—	N/A
	1	Drip box Fig.3 Enclosure on turntable	1 mm/min	10 min	14.2.1	N/A
	2	Drip box Fig.3 Enclosure in 4 fixed positions of 15° tilt	3 mm/min	2,5 min for each position of tilt	14.2.2	N/A
	3	Oscillating tube Fig. 4 Spray ± 60° from vertical, distance max. 200 mm or Spray nozzle Fig. 5 Spray ± 60° from vertical	0,07 l /min ± 5% per hole, multiplied by number of holes  10 l /min ± 5%	10 min  1 min/m <sup>2</sup> at least 5 min	14.2.3 a)  14.2.3 b)	N/A
	4	As for numeral 3 Spray ± 180° from vertical	As for numeral 3		14.2.4	N/A
	5	Water jet hose nozzle Fig. 6 Nozzle 6,3 mm diameter, distance 2,5 m to 3 m	12,5 l /min ± 5%	1 min/m <sup>2</sup> at least 3 min	14.2.5	N/A
	6	Water jet hose nozzle Fig. 6 Nozzle 12,5 mm diameter, distance 2,5 m to 3 m	100 l /min ± 5%	1 min/m <sup>2</sup> at least 3 min	14.2.6	P
	7	Immersion tank Water-level on enclosure: 0,15 m above top 1 m above bottom	—	30 min	14.2.7	N/A
	8	Immersion tank Water-level: by agreement	—	by agreement	14.2.8	N/A
14.2	<b>Test conditions</b>					—
	Test means and main test conditions are given in Tab. VIII.					P
	Details concerning compliance of degrees of protection – in particular for second characteristic numerals 5/6 (water jets) and numerals 7/8 (immersion) – are given in Clause 6.					P
	The tests are conducted with fresh water.					P

IEC/EN 60529			
Clause	Requirement – Test	Result	Verdict
	During the tests for IPX1 to IPX6 the water temperature should not differ by more than 5 K from the temperature of the specimen under test.		P
	If the water temperature is more than 5 K below the temperature of the specimen a pressure balance shall be provided for the enclosure.		N/A
	For IPX7 details of the water temperature are given in 14.2.7.		N/A
	During the test, the moisture contained inside the enclosure may partly condense. The dew which may thus deposit shall not be mistaken for an ingress of water.		P
	For the purpose of the tests, the surface area of the enclosure is calculated with a tolerance of 10%.		P
	Adequate safety precautions should be taken when testing the equipment in the energized condition		P
14.2.1	<b>Test for second characteristic numeral 1 with the drip box</b>		—
	The test is made with a device which produces a uniform flow of water drops over the whole area of the enclosure.		N/A
	The turntable on which the enclosure is placed has a rotation speed of 1 r/min and the eccentricity(distance between turntable axis and specimen axis) is approximately 100 mm.		N/A
	The enclosure under test is placed in its normal operating position under the drip box, the base of which is larger than that of the enclosure.		N/A
	Except for enclosures designed for wall or ceiling mounting, the support for the enclosure under test should be smaller than the base of the enclosure.		N/A
	An enclosure normally fixed to a wall or ceiling is fixed in its normal position of use to a wooden board having dimensions which are equal to those of that surface of the enclosure which is in contact with the wall or ceiling when the enclosure is mounted as in normal use.		N/A
	The duration of test is 10 min.		N/A
14.2.2	<b>Test for second characteristic numeral 2 with the drip box</b>		—
	The dripping device is the same as specified in 14.2.1 adjusted to provide the water flow rate specified in Tab. VIII.		N/A
	The table on which the enclosure is placed does not turn as in the case of the test for the second characteristic numeral 1.		N/A

IEC/EN 60529						
Clause	Requirement – Test			Result	Verdict	
	The enclosure is tested for 2,5 min in each of four fixed positions of tilt. These positions are 15° on either side of the vertical in two mutually perpendicular planes (see Fig. 3b)).				N/A	
	The total duration of the test is 10 min.				N/A	
14.2.3	<b>Test for second characteristic numeral 3 with oscillating tube or spray nozzle</b>					—
	The test is made using one of the two test devices described in Fig. 4 and in Fig. 5 in accordance with the relevant product standard.				N/A	
	a) Conditions when using the test device as in Fig. 4 (oscillating tube)				N/A	
	b) Conditions when using the test device as in Fig. 5 (spray nozzle)				N/A	
14.2.4	<b>Test for second characteristic numeral 4 with oscillating tube or spray nozzle</b>					—
	The test is made using one of the two test devices described in Fig. 4 and in Fig. 5 in accordance with the relevant product standard.				N/A	
	a) Conditions when using the test device as in Fig. 4 (oscillating tube):				N/A	
	b) Conditions when using the test device as in Fig. 5 (spray nozzle):				N/A	
	Tab. IX-9 <b>Total water rate <math>q_v</math> under IPX3 and IPX4 test conditions Mean flow rate per hole <math>q_{v1} = 0,07</math> l/min</b>					—
	<b>Tube radius R mm</b>	<b>Number of open holes N(1)</b>	<b>Total water flow <math>Q_v</math> l/min</b>	<b>Number of open holes 1)</b>	<b>Total water flow <math>q_v</math> l/min</b>	N/A
	200	8	0,56	12	0,84	N/A
	400	16	1,1	25	1,8	N/A
	600	25	1,8	37	2,6	N/A
	800	33	2,3	50	3,5	N/A
	1000	41	2,9	62	4,3	N/A
	1200	50	3,5	75	5,3	N/A
	1400	58	4,1	87	6,1	N/A
	1600	67	4,7	100	7,0	N/A
	(1) Depending on the actual arrangement of the hole centres at the specified distance, the number of open holes N may be increased by 1.					N/A
14.2.5	<b>Test for second characteristic numeral 5 with the 6,3 mm nozzle</b>					—
	The test is made by spraying the enclosure from all practicable directions with a stream of water from a standard test nozzle as shown in Fig. 6.				P	



IEC/EN 60529			
Clause	Requirement – Test	Result	Verdict
	The conditions to be observed are as follows:.		—
	internal diameter of the nozzle: 6,3 mm;		N/A
	delivery rate: 12,5 l/min $\pm$ 5%;		N/A
	water pressure: to be adjusted to achieve the specified delivery rate;		N/A
	core of the substantial stream: circle of approximately 40 mm diameter at 2,5 m distance from nozzle;		N/A
	test duration per square metre of enclosure surface area likely to be sprayed: 1 min;		N/A
	minimum test duration: 3 min;		N/A
	distance from nozzle to enclosure surface: between 2,5 and 3 m		N/A
14.2.6	<b>Test for second characteristic numeral 6 with the 12,5 mm nozzle</b>		—
	The test is made by spraying the enclosure from all practicable directions with a stream of water from a standard test nozzle as shown in Fig. 6.	<b>YRL66-U: IP66</b>	P
	The conditions to be observed are as follows:.		—
	internal diameter of the nozzle: 12,5 mm;		P
	delivery rate: 100 l/min $\pm$ 5%;.		P
	water pressure: to be adjusted to achieve the specified delivery rate;	1006mbar	P
	core of the substantial stream: circle of approximately 120 mm diameter at 2,5 m distance from nozzle;		P
	test duration per square metre of enclosure surface area likely to be sprayed: 1 min;		P
	minimum test duration: 3 min;		P
	distance from nozzle to enclosure surface: between 2,5 and 3 m.		P
14.2.7	<b>Test for second characteristic numeral 7: temporary immersion between 0,15 and 1 m</b>		—
	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:		—
	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 than 5 K.		N/A

IEC/EN 60529			
Clause	Requirement – Test	Result	Verdict
	However, a modified requirement may be specified in the relevant product standard if the tests are to be made when the equipment is energized and/or its parts in motion		N/A
14.2.8	<b>Test for second characteristic numeral 8: continuous immersion subject to agreement</b>		—
	Unless there is a relevant product standard, the test conditions are subject to agreement between manufacturer and user,		N/A
	but they shall be more severe than those prescribed in 14.2.7		N/A
	And they shall take account of the condition that the enclosure will be continuously immersed in actual use.		N/A
14.3	<b>Acceptance conditions</b>		—
	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.	<b>YRL66-U: IP66</b> No trace of hazard water.	P
	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, if any.		N/A
	In general, if any water has entered, it shall not:		—
	be sufficient to interfere with the correct operation of the equipment or impair safety;		N/A
	deposit on insulation parts where it could lead to tracking along the creepage distances;		N/A
	reach live parts or windings not designed to operate when wet;		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 enclosures without drain-holes, the relevant product standard shall specify the acceptance conditions if water can accumulate to reach live parts		N/A
15	<b>TESTS FOR PROTECTION AGAINST ACCESS TO HAZARDOUS PARTS INDICATED BY THE ADDITIONAL LETTER</b>		—

IEC/EN 60529			
Clause	Requirement – Test	Result	Verdict
ZA	<b>ANNEX ZA (NORMATIVE) Other International Publications quoted in this standard with the references of the relevant European Publications</b>		—

## Attachment 1

### Measuring equipment list - TÜV Rheinland (Shanghai) Co., Ltd.

Equip.	Description	Model	Manufacturer	Inte. (mon)	Due date
1812092	Barometer	DYM-3	Ningbo temperature	12	26.10.2018
1811606	IPX3~IPX6 Tester	DEYI-01	Wuxi Deyi High-tech	12	06.01.2019
1812755	Jointed Test Finger	P10.14	PTL Dr. Grabenhorst	60	13.06.2022
1812098	Electron-stop watch	J9-2II	Shanghai Stopwatch	12	06.01.2019
1811449	Dust test unit	ST1000-U	Weiss	12	06.01.2019
1811681	Data logger	175H1	Testo	12	06.01.2019
1811873	Steel tape	20m	TAJIMA TOOLS	60	23.09.2019