

CENTRE OF TESTING SERVICE INTERNATIONAL

OPERATE ACCORDING TO ISO/IEC 17025

TEST REPORT

TEST REPORT NUMBER: CNB3110517-01883-L



CTS (Ningbo) Testing Service Technology Co., Ltd.
Fl.2 South, HuoJu Building, No.181 CangHai Rd., Jiangdong Hi-tech Park
Ningbo







Page 1 of 19 Date: 19 May 2011 Report No.: CNB3110517-01883-L

Table of contents

1.	General Information	2
1.1	Notes	2
1.2	Tester	3
1.3	Testing laboratory	4
1.4	Application details	4
1.5	Test item description	5
1.6	Test standards	6
2.	Technical test	7
2.1	Summary of test results	7
2.2	Test environment	7
2.3	Conformity verification - Summary of inspection	8
3.	Test Results	9
3.1	Particulars: test item vs. test requirements	9
3.2	General requirements and results	10
3.3	Annex as stated in the standards	16
3.4	table	17
Atta	chments	19

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Report No.: CNB3110517-01883-L Page 2 of 19 Date: 19 May 2011

1 General Information

1.1 Notes

The purpose of conformity testing is to increase the probability of adherence to the

essential requirements or conformity specifications, as appropriate.

The complexity of the technical specifications, however, means that full and thorough

testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample which has Passed all the relevant

tests conforms to a specification (only telecommunication products).

Neither is there any guarantee that such a test sample will interwork with other genuinely

open systems.

The existence of the tests nevertheless provides the confidence that the test sample

possesses the qualities as maintained and that its performance generally conforms to

representative cases of communications equipment.

The test results of this test report relate exclusively to the item tested as specified in 1.5.

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of the Centre of Testing Service.







Report No.: CNB3110517-01883-L Page 3 of 19 Date: 19 May 2011

1.2 Tester

Tested by:

19 May 2011 Batty Xu

Date Name Signature

Reviewed by:

19 May 2011 Allen Shao

Date Name Signature

Approved by:

19 May 2011 Gavin Duan

Date Name Signature

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Report No.: CNB3110517-01883-L Page 4 of 19 Date: 19 May 2011

Testing laboratory 1.3

1.3.1 Location

CTS (Ningbo) Testing Service Technology Co., Ltd.

Fl. 2 South Huoju Building No. 181. Canghai Rd. Jiangdong High-tech. Park

Ningbo China

Telephone: + 86-574-87912121 Telefax: +86-574-87907993

1.3.2 Test location, where different from CTS:

Name: Street: ./. Town: ./. Country: ./. Telephone: ./. Fax: ./. Teletex: ./.

1.4 Client details

1.4.1 Details of applicant

: SHANGHAI ZIXI ELECTRIC CO.,LTD. Name

Street : 1F, NO.218, JIEXU ROAD

: SONGJIANG HIGH-TECH ZONE, SHANGHAI Town

Country : CHINA

Telephone : +86-21-67758972 : +86-21-67758962 Fax

Teletex : ./.

Contact : YUAN XIANGQING

Telephone :/

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Report No.: CNB3110517-01883-L Page 5 of 19 Date: 19 May 2011

1.4.2 Details of manufacturer

: SHANGHAI ZIXI ELECTRIC CO.,LTD. Name

Street : 1F, NO.218, JIEXU ROAD

: SONGJIANG HIGH-TECH ZONE, SHANGHAI Town

Country : CHINA

Telephone : +86-21-67758972 Fax : +86-21-67758962

Teletex : ./.

Contact : YUAN XIANGQING

Telephone :/

1.4.3 Details of factory

Name : SHANGHAI ZIXI ELECTRIC CO.,LTD.

: 1F, NO.218, JIEXU ROAD Street

Town : SONGJIANG HIGH-TECH ZONE, SHANGHAI

: CHINA Country

1.4.4 Dates of application

Date of receipt of application : 16 May 2011

Date of receipt of test item : 19 May 2011

Date of test : 16-19 May 2011

Test item Description

1.5.1 Description of test item

Type of product : stainless steel box

Model/Type reference : stx

Serial number

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Report No.: CNB3110517-01883-L Page 6 of 19 Date: 19 May 2011

1.5.2 Test item particulars

Test item:	stainless steel bo
Trade Mark:	TIBOX
Protection Class:	□ Class I; □ Class II; □ Class III.
IP Number:	□ IP20; □ IP44; □ IP55; □ IP65; □ IPX4; □ IPX5;
	☑ Other: IP66
Rated Voltage(Range):	
Rated Wattage:	
Supply Connection:	□ Type X; □ Type Y; □ Type Z; □ Pins; □ Appliance
	inlet;⊠ Terminals; □ connecting leads (tails);
	☐ Adaptors; ☐ connectors; ☐ Other: N.A
Appliance Mobility:	□ Portable Appliance; □ Hand-held Appliance;
	☐ Stationary Appliance; ☐ Fixed Appliance; ☐ Built-in
	Appliance
Instructions language:	□ English; □ French; ☑ Other: N.A

(all informations was provided by the applicant or detected at the sample) Please see also attachment

1.6 **Test standards**

EN 60529: 1991 + A1: 2000 (only IP66 test) Degrees of protection provided by enclosures (IP Code) (IEC 60529: 1989 + A1: 1999);

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Report No.: CNB3110517-01883-L Page 7 of 19 Date: 19 May 2011

2 Technical test

Summary of test results 2.1

No deviations from the technical specification(s) were ascertained in the course of the tests performed.



2.2 Test environment

15 ... 25 °C Temperature:

Relative humidity content: 20 ... 75 %

86 ... 103 kPa Air pressure:

Details of power supply:

Other parameters:

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Report No.: CNB3110517-01883-L Page 8 of 19 Date: 19 May 2011

2.3 Conformity verification - Summary of inspection

Clause	Summary of inspection	Test result		lt
		N.A.	Pass	Fail
4	Designations		\boxtimes	
5	Degrees of protection against access to hazardous			
	parts and against solid foreign objects indicated by the			
	first characteristic numeral			
6	Degrees of protection against ingress of water indicated			
	by the second characteristic numeral		\boxtimes	
7	Degrees of protection against access to hazardous			
	parts indicated by the additional letter	\boxtimes		
8	Supplementary letters	\boxtimes		
9	Examples of designations with the IP Code		\boxtimes	
10	Marking	\boxtimes		
11	General requirements for tests		\square	
12	Tests for protection against access to hazardous parts			
	indicated by the first characteristic numeral	\boxtimes		
13	Tests for protection against solid foreign objects			
	indicated by the first characteristic numeral			
14	Tests for protection against water indicated by the			
	second characteristic numeral			
15	Tests for protection against access to hazardous parts			
	indicated by the additional letter	\boxtimes		
Annexe				
S			\boxtimes	

Test case verdicts

N.A.: Test case does not apply to the test object Pass: Test item does meet the requirement Fail: Test item does not meet the requirement

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Page 9 of 19 Report No.: CNB3110517-01883-L Date: 19 May 2011

3 Test results basic standard(s)

Particulars: test item vs. test requirements 3.1

	1:1999 and/or EN 60529: 1991 + A1: 2000 oction provided by enclosures (IP Code)
Possible test case verdicts:	
- test case does not apply to the test object	N(N/A)
- test object does meet the requirement	P(Pass)
- test object does not meet the requirement	F(Fail)
Test specification:	
Standard:	☐ IEC 60529: 1989 + A1: 1999 ☑ EN 60529: 1991 + A1: 2000
Test procedure:	LVD DOC approval.
Non-standard test method:	N/A
Test Report Form No	EN 60529A
Test Report Form(s) Originator:	Centre of Testing Service
Master TRF	Dated Jan 2007
Copyright blank test report	Centre of Testing Service
General remarks:	
"(see remark #)" refers to a remark appende	ed to the report.
"(see appended table)" refers to a table app	ended to the report.
Throughout this report a comma is used as	the decimal separator.
The test results presented in this report rela	te only to the object tested.
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Page 10 of 19 Date: 19 May 2011 Report No.: CNB3110517-01883-L

3.2 General requirements and results

	IEC 60529:1989 + A1:1999 and / or EN 60529	: 1991+A1: 2000	
clause	Requirement – Test	Result	Verdic
4	Designations		_
4.1	Arrangement of the IP code	IP66	Р
5	Degrees of protection against access to hazardous pa foreign objects indicated by the first characteristic number of the contract of the contr		_
5.1	protection against access to hazardous parts, see table I	IP6X	Р
5.2	Protection against solid foreign objects, see table II	IP6X	Р
6	Degrees of protection against ingress of water indicated by the second characteristic numeral		_
	protection against ingress of water by the second characteristic numeral, see table III	IPX6	Р
7	Degrees of protection against access to hazardous parts indicated by the additional letter		N
8	Supplementary letters		N
9	Examples of designations with the IP code	IP66	Р
10	Marking		_
	the requirements for marking shall be specified in the relevant product standard.		N
	Where appropriate, such a standard should also specify the method of marking which is to be used when:		N
	-Each part have a different degree of protection that in the same enclose		N
	-The mounting position has an influence on the degree of protection		N
-	-The maximum immersion depth and time are indicated.		N

11	General requirements for tests	_
	Tests performed according to cl. 11, e.g. atmospheric	Р

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Report No.: CNB3110517-01883-L Page 11 of 19 Date: 19 May 2011

	IEC 60529:1989 + A1:1999 and / or EN 60529: 1991+A1: 2000		
clause	Requirement – Test	Result	Verdict
	conditions, test samples, etc.		

12	Tests for protection against access to hazardous parts indicated by the first characteristic numeral	_
12.1	Access probes, see the table VI	N
12.2	Use a low-voltage supply in series with a suitable lamp should be connected between the probe and the hazardous parts	N
12.3.1	Low Voltage appliances (up to 1000V AC / 1500V DC)	N
	the probe shall not come in contact with live parts.	N
	Compliance was proved by a continuity test with the probe	N
	A (sphere diameter 50mm for IP 1X, with test force 50N±10%)	N
	B (test finger diameter 12mm for IP 2X, with test force 10N±10%)	N
	C (stick diameter 2,5 mm for IP 3X, with test force 3N±10%)	N
	D (wire diameter 1,0 mm for IP 4X, IP5X, IP6X with test force 1N±10%)	N
12.3.2	High Voltage appliances (over 1000V AC / 1500V DC)	N
	the probe shall not come near to life parts that clearances are reduced.	N
	Compliance was tested with the following probe in conjunction with the high- voltage test	N
	A (sphere diameter 50mm for IP 1X, with test force 50N±10%)	N
	B (test finger diameter 12mm for IP 2X, with test force 10N±10%)	N
	C (stick diameter 2,5 mm for IP 3X, with test force 3N±10%)	N
	D (wire diameter 1,0 mm for IP 4X, IP5X, IP6X with test force 1N±10%)	N
12.3.3	Low Voltage appliances with hazardous mechanical parts	N
	the probe shall not come in contact with these hazardous mechanical parts	N
	Compliance is tested with the continuity test with the probe	N
	A (sphere diameter 50mm for IP 1X, with test force 50N±10%)	N
	B (test finger diameter 12mm for IP 2X, with test force 10N±10%)	N
	C (stick diameter 2,5 mm for IP 3X, with test force 3N±10%)	N

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Report No.: CNB3110517-01883-L Page 12 of 19 Date: 19 May 2011

	IEC 60529:1989 + A1:1999 and / or EN 60529: 1991+A1: 2000			
clause	Requirement – Test	Result	Verdict	
	D (wire diameter 1,0 mm for IP 4X, IP5X, IP6X with test force 1N±10%)		N	

13	Tests for protection against solid foreign objects indic characteristic numeral	ated by the first	_
13.1	Test means must comply with Table VII.	See attached table	Р
13.2	All appliances	IP6X	N
	the probe shall not penetrate in the appliance when the probe is applied with the force:		N
	A (sphere diameter 50mm with 50N for IP 1X)		N
	B (sphere diameter 12,5mm with 30N for IP 2X)		N
	C (stick diameter 2,5 mm with 3N for IP 3X)		N
	D (wire diameter 1,0 mm with 1N for IP 4X)		N
13.3	Acceptance conditions for the first characteristic numerals 1,2,3,4		N
	The probe does not pass through any opening		N
13.4	Dust test for first numerals 5 and 6		Р
	-Dust test condition for enclosures category 1: With supatmosphere		N
	-Category 2: with normal atmosphere at dust chamber		Р
13.5.2	the amount of intruded dust does not impair safety (for IP 5X)		N
13.6.2	no dust did intrude (for IP 6X)		Р

14	Tests for protection against water indicated by the numeral	second characteristic	_
14.1	Test means, see the Table VIII	See attached table	Р
14.2	Test conditions must comply with Table VIII		Р
14.2.1	Proof with the drop machine (IP X1)	IPX6	N
	test for 10 min with a water - volume -stream of 1mm/min on a rotating table (1 round/min distance between appliance and the axis of the table is 100mm)		N
	-the ingress of water shall not impair safety or interfere with the correct operation of equipment		N
	-the water shall not cause tracking currents		N
	-the water shall not reach live parts or winding which are not build for use in wet conditions		N
	-the water shall not reach the end of wires		N

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Report No.: CNB3110517-01883-L Page 13 of 19 Date: 19 May 2011

clause	Requirement – Test	Result	Verdict
	-if the case is provided with drainage holes water shall not stay in the case and flow without impairing safety		N
	-the equipment pass the dielectric strength test		N
14.2.2	Proof with the drop machine (IP X2)	IPX6	N
	test for 10 min with a water - volume -stream of 3mm/min on a rotating table (1 round/min distance between appliance and the axis of the table is 100mm)		N
	test for 2,5 min at 4 fixed positions with 15° slope		N
	-the ingress of water shall not impair safety or interfere with the correct operation of equipment		N
	-the water shall not cause tracking currents		N
	-the water shall not reach live parts or winding which are not build for use in wet conditions		N
	-the water shall not reach the end of wires		N
	-the equipment pass the dielectric strength test		N
	-if the case is provided with drainage holes water shall not stay in the case and flow without impairing safety		N
14.2.3	Proof with the sprinkling machine (IP X3)	IPX6	N
	Testing not less than 5min from - 60 to 60 degree jet angle at 0,07 l /min per hole with a distance of 200mm a shower at 10 l /min, and the water pressure range of 50kPa to 150kPa.		N
	The test duration is 1min/m²		N
	-the ingress of water shall not impair safety or interfere with the correct operation of equipment		N
	-the water shall not cause tracking currents		N
	-the water shall not reach live parts or winding which are not build for use in wet conditions		N
	-the water shall not reach the end of wires		N
	-if the case is provided with drainage holes water shall not stay in the case and flow without impairing safety		N
	-the equipment pass the dielectric strength test		N
14.2.4	Proof with the sprinkling machine (IP X4)	IPX6	N
	Testing not less than 5min from - 180 to 180 degree jet angle at 0,07 l /min per hole with a distance of 200mm a shower at 10 l /min, and the water pressure range of 50kPa to 150kPa.		N
	The test duration is 10min		N
	-the ingress of water shall not impair safety or interfere with the correct operation of equipment		N
	-the water shall not cause tracking currents		N

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Report No.: CNB3110517-01883-L Page 14 of 19 Date: 19 May 2011

clause	Requirement – Test	Result	Verdict
	-the water shall not reach live parts or winding which are not build for use in wet conditions		N
	-the water shall not reach the end of wires		N
	-if the case is provided with drainage holes water shall not stay in the case and flow without impairing safety		N
	-the equipment pass the dielectric strength test		N
14.2.5	Proof with a jet nozzle (IPX5)	IPX6	N
	test with a nozzle with a diameter of 6,3mm at 12,5l/min in a distance of 2,5m to 3m for 1 min/m²per surface		N
	Minimum test duration: 3min		N
	-the ingress of water shall not impair safety or interfere with the correct operation of equipment		N
	-the water shall not cause tracking currents		N
	-the water shall not reach live parts or winding which are not build for use in wet conditions		N
	-the water shall not reach the end of wires		N
	-if the case is provided with drainage holes water shall not stay in the case and flow without impairing safety		N
	-the equipment pass the dielectric strength test		N
14.2.6	Proof with a jet nozzle (IPX6)	IPX6	Р
	test with a nozzle with a diameter of 12,5 mm at 100 l/min in a distance of 2,5m to 3m for 1 min/m² per surface		Р
	Minimum test duration: 3min	3min	Р
	-the ingress of water shall not impair safety or interfere with the correct operation of equipment	No water ingress in appliance	Р
	-the water shall not cause tracking currents		Р
	-the water shall not reach live parts or winding which are not build for use in wet conditions		Р
	-the water shall not reach the end of wires		Р
	-if the case is provided with drainage holes water shall not stay in the case and flow without impairing safety		N
	-the equipment pass the dielectric strength test		Р
14.2.7	Temporary immersing (IPX7)	IPX6	N
	test with cases with a height up to 850mm in a test deep of 1000mm for 30min		N
	test with cases with a height over 850mm at 150mm water over the top for 30min		N
	-the ingress of water shall not impair safety or interfere with the correct operation of equipment		Ν
	-the water shall not cause tracking currents	1	ļ

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15



Ν

Page 15 of 19 Date: 19 May 2011 Report No.: CNB3110517-01883-L

Tests for protection against access hazardous parts

indicated by the additional letter

clause	Requirement – Test	Result	Verdic
	-the water shall not reach live parts or winding which are not build for use in wet conditions		N
	-the water shall not reach the end of wires		N
	-if the case is provided with drainage holes water shall not stay in the case and flow without impairing safety		N
	-the equipment pass the dielectric strength test		N
14.2.8	Temporary immersing (IPX8)	IPX6	N
	Unless there is a relevant product standard, 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 that the enclose will be continuously immersed in actual use.		N

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Report No.: CNB3110517-01883-L Page 16 of 19 Date: 19 May 2011

Annex as stated in the standards 3.3

IEC 60529:1989 + A1:1999 and / or EN 60529: 1991+A1: 2000			
Clause	Requirement - Test	Result - Remark	Verdict
ANNEXE A	Examples of IP coding for the verification of protection low-voltage equipment against access to hazardous parts		Р
	IP codes of examples in annexe A		Р

<u> </u>		<u> </u>	
ANNEXE B	Summary of responsibilities of relevant		Ν
	technical committees		

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Report No.: CNB3110517-01883-L Page 17 of 19 Date: 19 May 2011

3.4 Table

Table V –test conditions for degrees of protection indicated by the first characteristic numeral

First	Test for protection against		
characteristic	Access to hazardous parts	Solid foreign objects	
numeral			
0	No test required	No test required	
1	The sphere of 50 mm Φ shall not fully penetrate and adequate clearance shall be kept		
2	The jointed test finger may penetrate up to its	The sphere of 12.5 mm Φ shall not	
	80 mm length, but adequate clearance shall be	fully penetrate	
	kept		
3	The test rod of 2.5 mm Φ shall not penetrate and adequate clearance shall be kept		
4	The test wire of 1.0 mm Φ shall not penetrate and	adequate clearance shall be kept	
5	The test wire of 1.0 mm Φ shall not penetrate	Dust –protected as specified in table	
	and adequate clearance shall be kept	II	
6	The test wire of 1.0 mm Φ shall not penetrate	Dust –tight as specified in table II	
	and adequate clearance shall be kept		

Table VII- test means for the tests for protection against solid foreign objects

First numeral	characteristic	Test means(object probes and dust chamber)	Test force	Test conditions see
0		No test required		
1		Rigid sphere without handle or guard 50 0 mm diameter.	50N±10%	13.2
2		Rigid sphere without handle or guard 12,5 on mm diameter.	30N±10%	13.2
3		Rigid steel rod ^{2,5} ^{+0,05} mm diameter with edges free from burrs	3N±10%	13.2
4		Rigid steel wire ^{2,5} +0,05 mm diameter with edges free from burrs	1N±10%	13.2
5		Dust chamber figure 2, with or without underpressure		13.4+13.5
6		Dust chamber figure 2, with underpressure		13.4+13.6

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Report No.: CNB3110517-01883-L

CENTRE OF TESTING SERVICE

Page 18 of 19 Date: 19 May 2011

Table VIII- test means and main test conditions for the tests for protection against water

Second characteristi	Test means	Water flow rate	Duration of test	Test conditions,
c numeral			1001	see
0	No test required			
1	Drip box figure 3 enclosure on turntable	1 ^{+0,5} mm/min	10 min	14.2.1
2	Drip box figure 3 enclosure in 4 fixed positions of 15° tilt	3 ^{+0,5} mm/min	2.5 min for each position of tilt	14.2.2
3	Oscillating tube figure 4 spray±60° from vertical, distance max.200mm Or	0.07 I/min±5% per hole, multiplied by number of holes 10 I/min ±5%	10 min	14.2.3a)
	spray nozzle figure 5 spray±60° from vertical		1 min/m² At least 5 min	14.2.3b)
4	As for numeral 3 spray±180° from vertical	As for numeral 3		14.2.4
5	Water jet hose nozzle figure 6 nozzle 6.3 mm diameter distance 2.5m to 3m	12.5 l/min±5%	1 min/m² At least 3 min	14.2.5
6	Water jet hose nozzle figure 6 nozzle 12.5 mm diameter distance 2.5m to 3m	100 l/min±5%	1 min/m² At least 3 min	14.2.6
7	Immersion tank water-level on enclosure: 0.15m above top 1 m above bottom		30 min	14.2.7
8	Immersion tank water-level : by agreement		By agreement	14.2.8

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Attachments



Report No.: CNB3110517-01883-L Page 19 of 19 Date: 19 May 2011

\boxtimes	Photo document
	BOM
	CDF (critical data form)
	Copies of certificates of certified components
	Instruction manual
	Circuit diagram
	Explosion block
	Other if necessary
	end of report

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Attachment Page 1 of 2

Type Designation: stainless steel box; stx CNB3110517-01883-L

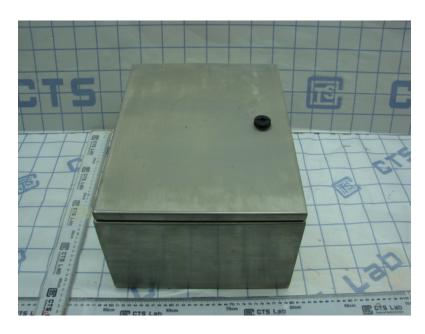


Figure 1 (External front view)



Figure 2 (side view)

Attachment Page 2 of 2

Type Designation: stainless steel box; stx CNB3110517-01883-L

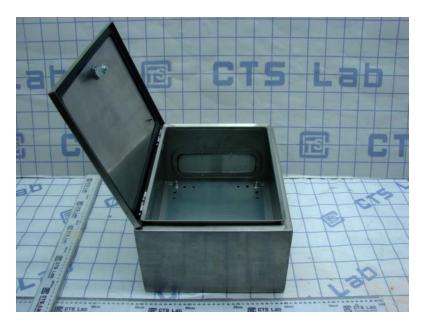


Figure 3 (internal view)



Figure 4 (waterproof gasket view)