



中国认可
国际互认
检测
TESTING
CNAS L14584

TEST REPORT

Report No. SL2025/0941-01

Applicant's name Yueqing Huikang Technology Co., Ltd

Designation Indoor high voltage grounding switch

Model/Type JN15-12/31.5-210

Test Category Type test (insulation performance)

实链

Shilian Testing (Zhejiang) Co., Ltd.



Information

- 1.The data issued by the unit can be traced back to the national benchmark and the international system of units (SI).
- 2.This test report (including copies) is invalid without the seal of the company.
- 3.This test report is invalid without the signature of the main inspector,reviewer and approver.
- 4.When customers need to copy this test report, please go to the business department of the unit with an official letter or a letter of introduction.
- 5.This test report is invalid if altered.
- 6.Unless otherwise stated, this test report is only responsible for the incoming samples.
- 7.If the customer has any objection to the test report, it can submit it to the unit in writing within 15 days from the date of receiving the report.

indcor hig-voltage line display device sensor

East side of Building 3, No. 10 Nangonghe Road, Donghu Street, Linping District, Hangzhou City,
Zhejiang Province, and northwest side of Building 2, No. 10 Nangonghe Road
Postal code: 311100, contact number: 0571-88720336

Shilian Testing (Zhejiang) Co., Ltd.

Test Report

Designation	Indoor high voltage grounding switch	Model/Type	JN15-12/31.5-210	
Applicant's name	Name	Yueqing Huikang Technology Co., Ltd	Contact information	/
	Address	No.1, Changdong Road, Liushi Town, Yueqing City, Wenzhou City, Zhejiang Province (Room 425, Floor 4, Building 2, Zhengtai Yueqing Internet of Things Sensor Industrial Park)		
Factory	Yueqing Huikang Technology Co., Ltd			
Factory's address	No.1, Changdong Road, Liushi Town, Yueqing City, Wenzhou City, Zhejiang Province (Room 425, Floor 4, Building 2, Zhengtai Yueqing Internet of Things Sensor Industrial Park)			
Source of test object	Provided by the applicant	Product receiving date	08 May 2025	
Sample quantity	1 unit	Manufacture serial number	20250401019	
Condition before tests	☒ Normal ☐ Exception (see remarks)	Test Category	Type test (insulation performance)	
Testing location	East side of Building 3, No. 10 Nangonghe Road, Donghu Street, Linping District, Hangzhou City, Zhejiang Province, and northwest side of Building 2, No. 10 Nangonghe Road	Date of tests	9 May 2025 to 12 May 2025	
Report date	13 May 2025	/	/	
Standards for Test Performance	GB/T 1985-2023 High-voltage alternating current disconnectors and earthing switches GB/T 11022-2020 Common specifications for high-voltage alternating-current switchgear and controlgear standards			
Conclusions	The test data of the tested items of the test object meet the standards for test performance and the technical requirements of the client. See "summary page of test results" for test results.			
Remarks	/			
Tester	Zhou Dekai 13 May 2025			
Checked	Ye Zhengqiang 13 May 2025	Approved	Wu Hua 13 May 2025	



Overview

Designation	Indoor high voltage grounding switch	Model/Type	JN15-12/31.5-210	
Manufacture serial number	20250401019	Manufacture date	April 2025	
Manufacturer	Yueqing Huikang Technology Co., Ltd			
Manufacturer's address	No.1, Changdong Road, Liushi Town, Yueqing City, Wenzhou City, Zhejiang Province (Room 425, Floor 4, Building 2, Zhengtai Yueqing Internet of Things Sensor Industrial Park)			
Main technical data assigned by the manufacturer	Rated voltage kV		12	
	Breaking current A		31.5	
	Rated frequency Hz		50	
	Blank below			
	Note: The above information and data are provided by the commissioning unit/manufacturing unit, and our laboratory is not responsible for their accuracy.			
	Technical data submitted by the manufacturer	SL2025/0941 Testing Authorization Letter		

Summary of test results

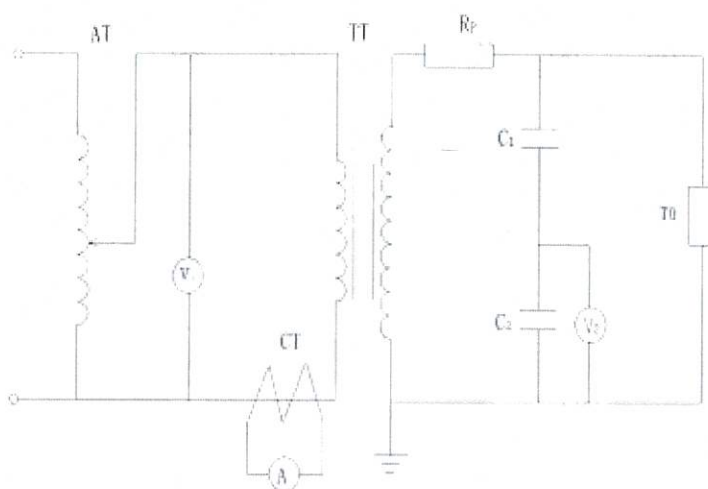
Serial	Testing items	Prescribed values/standards (commissioned technical requirements)	Detection result	Conclusion
1	Dielectric test on auxiliary and control circuits	2kV/1min	No destructive discharge	Pass
2	Power frequency withstand voltage test	Phase to phase and phase to earth : 42kV/1min	No destructive discharge occurred	Pass
3	Lightning impulse test	Phase to phase and phase to earth :75kV	No destructive discharge occurred	Pass
Note:	/			

Tests on auxiliary and control circuits

Test date	09 May 2025	Temperature (°C)	24.3	Relative humidity (%rRH)	59
Atmospheric conditions(kPa)	101.1	Correction factor	/	Altitude (m)	6
Voltage applied to	Earthed terminal	Expected voltage (kV)	Test voltage (kV)		Result
Conductive part of auxiliary loop and control loop	Frame of the switching device	2	1.99		No destructive discharge occurred
Between the conductive parts of different circuits	Other parts connected together and connected to the base frame	2	2.01		No destructive discharge occurred
Note: 1.Duration : 60 s. 2. During the test, the atmospheric correction factor is corrected by $K_t=1.0000$, and the altitude correction factor $K_a=1$.					
Verdict	Pass				

Power frequency voltage withstand test

Schematic diagram of the test



AT	Voltage Regulator	R _p	Protection resistor
CT	Current transformer	TT	Power frequency test transformer
TO	Samples	A	Ammeter
C ₁	High voltage arm capacitor	C ₂	Low voltage arm capacitor
V ₂	Peak voltmeter		

Power frequency withstand voltage test

Test date	09 May 2025	Temperature (°C)	24.3	Relative humidity (%RH)	59
Atmospheric conditions(kPa)	101.1	Correction factor	/	Altitude (m)	6

Testing position	Switching device	Voltage applied to	Earthed terminal	Applied voltage (kV)	Test voltage (kV)	Duration(s)	Result
Phase to phase and phase to earth	/	A	BCF	42	42.12	60	No destructive discharge occurred
		B	ACF	42	41.99	60	No destructive discharge occurred
		C	ABF	42	41.98	60	No destructive discharge occurred

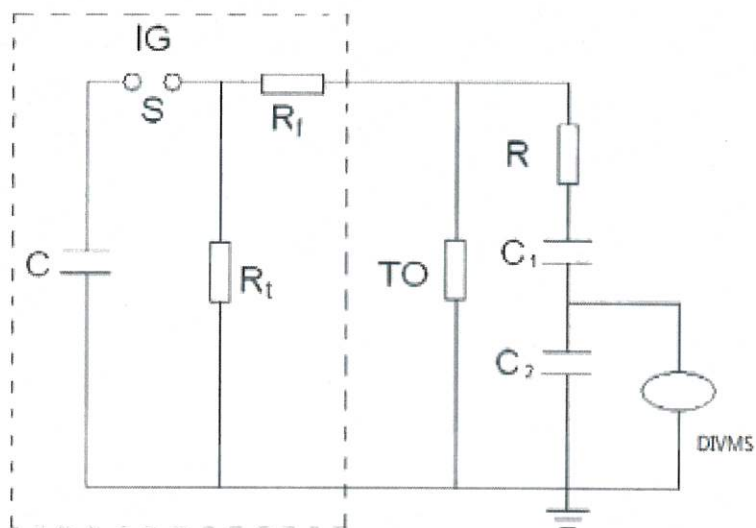
Note:

1. Voltage applied to/Earth connected to : A, B, C - incoming side; a, b, c-outlet side; F - Frame.
2. During the test, the atmospheric correction factor is corrected by $K_t=1.0000$, and the altitude correction factor $K_a=1$.

Verdict	Pass
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Lightning impulse test

Schematic diagram of the test



C	Main capacitance of shock generator	R _f	Wave resistance
R _t	Wave-tail resistor	S	Impact ignition gap
R	Damping resistance	C ₁	High voltage arm capacitor
TO	Samples	C ₂	Low voltage arm capacitor
DIVMS	Oscilloscope		

Lightning impulse test

Test date	12 May 2025	Temperature (°C)	24.8	Relative humidity (%RH)	59
Atmospheric conditions(kPa)	101.2	Correction factor	/	Altitude (m)	6

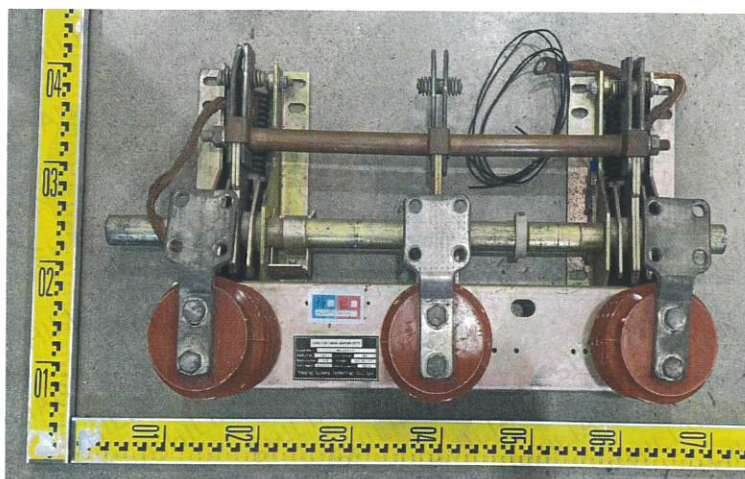
Testing position/Switching device	Voltage applied to	Earthed terminal	Expected voltage(kV)	Positive polarity			Negative polarity		
				Test voltage(peak value) kV	Application number	Discharge number	Test voltage(peak value) kV	Application number	Discharge number
Phase to phase and phase to earth	A	BCF	75	72.96~77.21	15	0	73.14~77.14	15	0
	B	ACF	75	72.98~77.09	15	0	73.41~77.12	15	0
	C	ABF	75	73.41~77.16	15	0	72.90~77.20	15	0

Note:

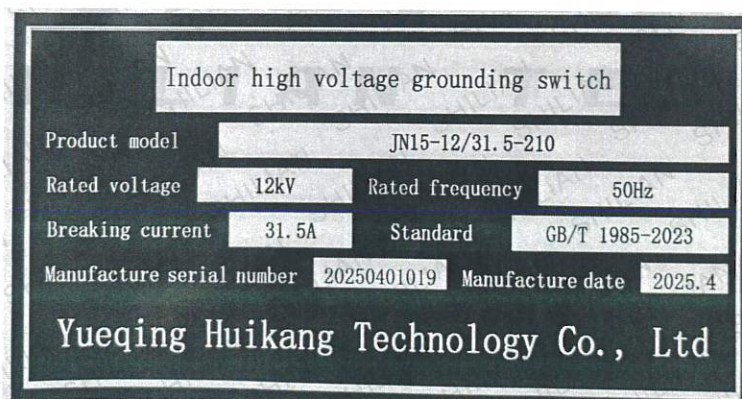
1. Voltage applied to/Earth connected to : A, B, C - incoming side; a, b, c-outlet side; F - Frame.
2. During the test, the atmospheric correction factor is corrected by $K_t=1.0000$, and the altitude correction factor $K_a=1$.

Verdict	Pass
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Appendix A Test object information



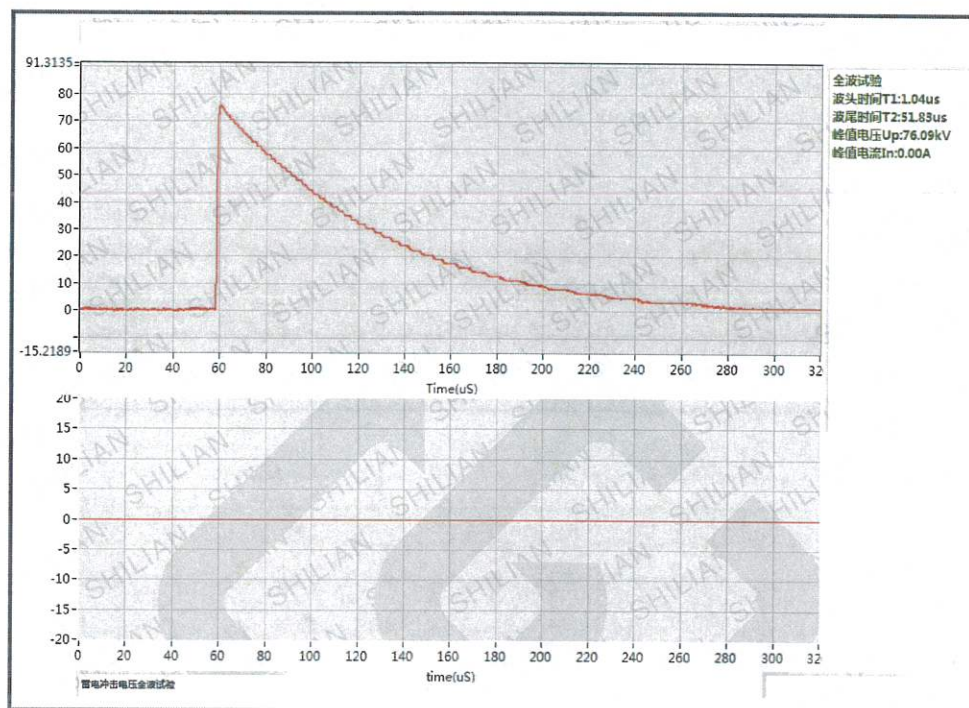
Sample photos



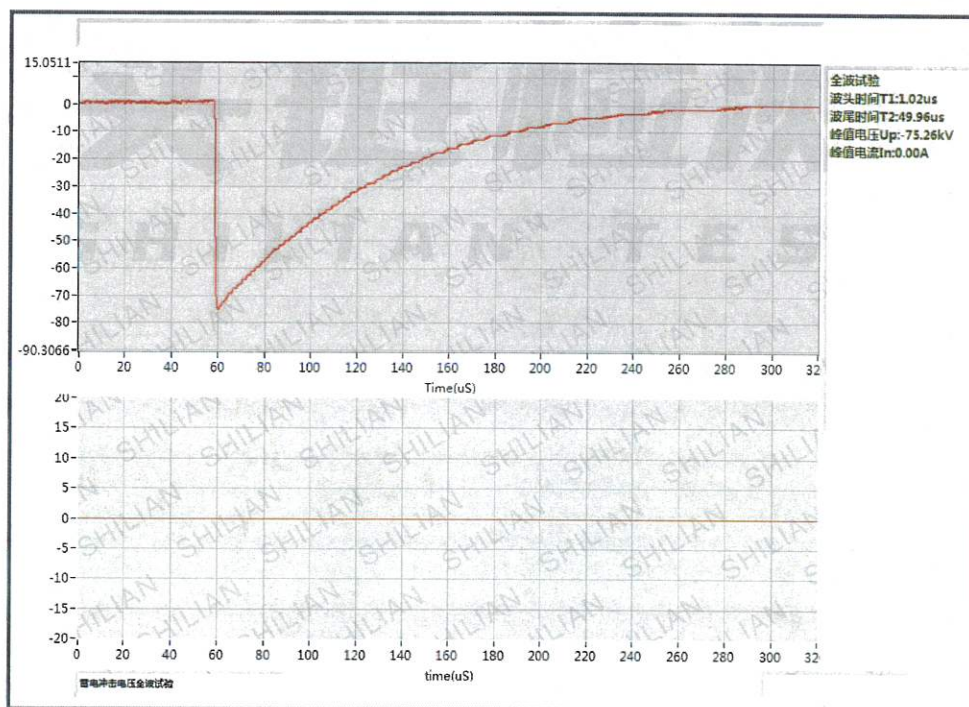
Nameplate

Appendix B Waveform Diagram

A+

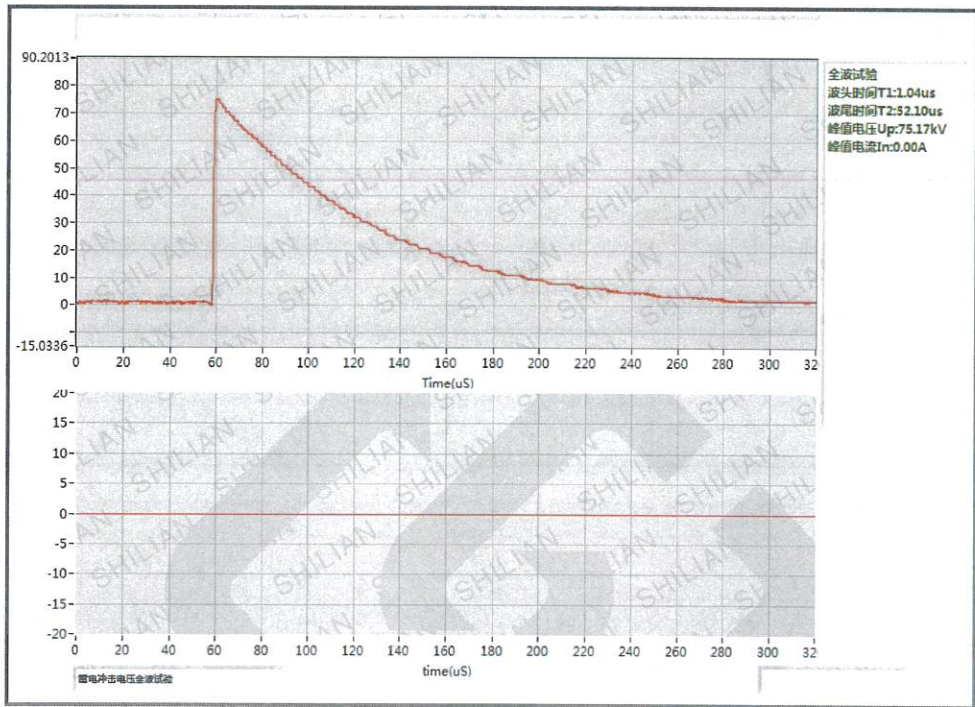


A-

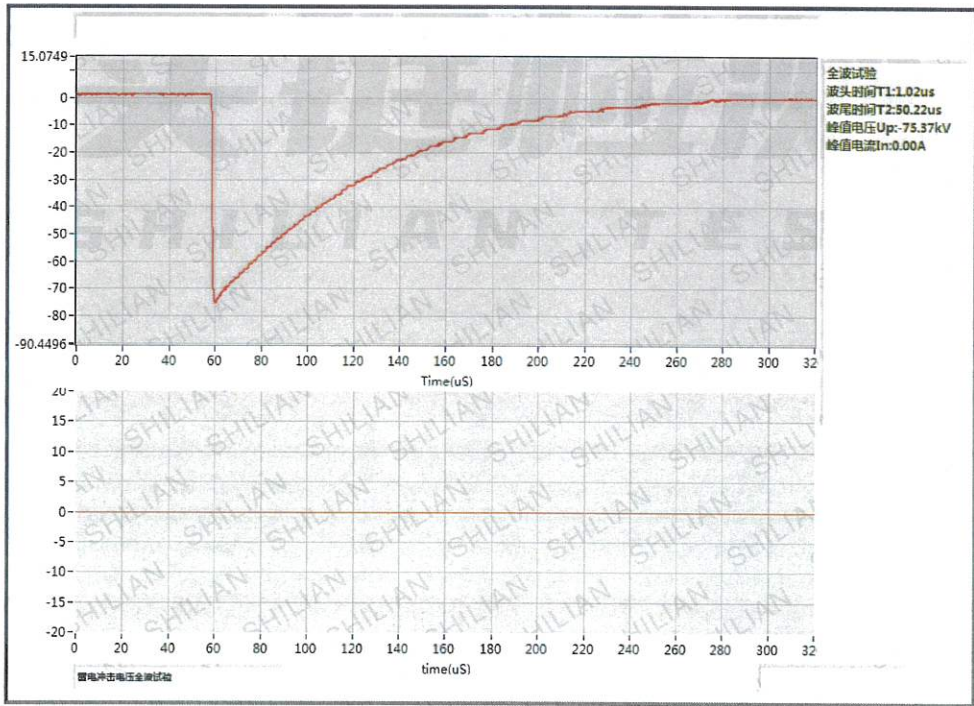


Appendix B Waveform Diagram

B+

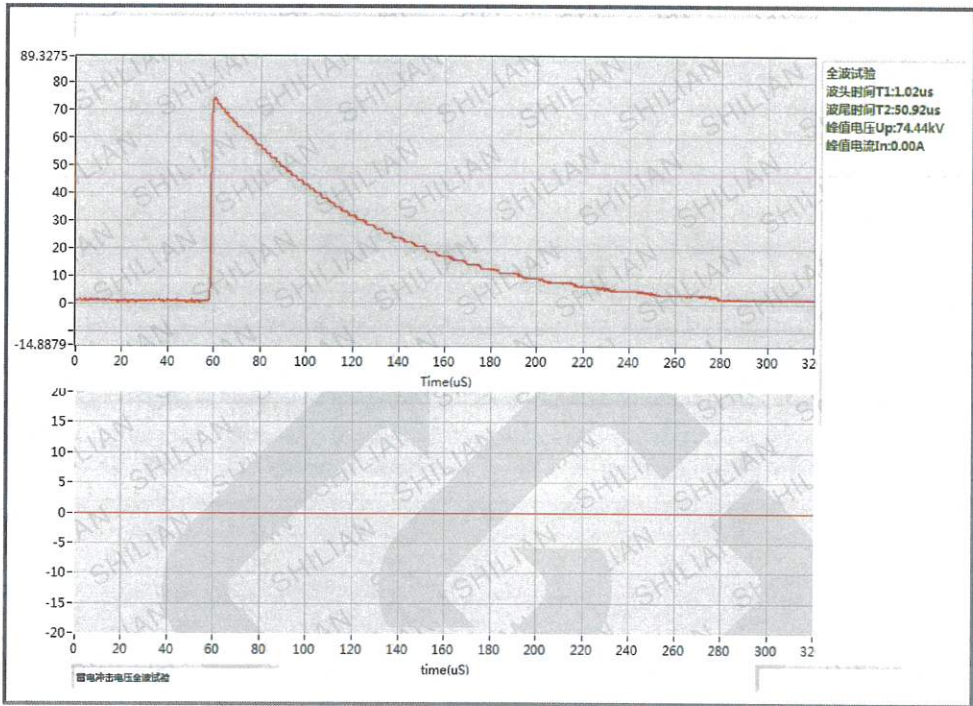


B-

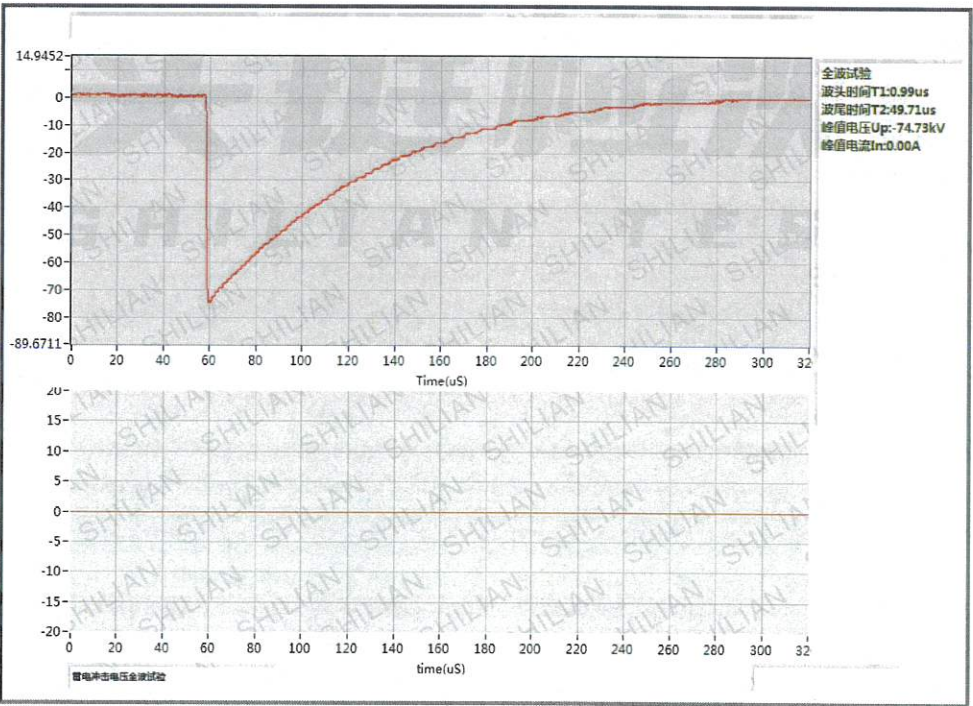


Appendix B Waveform Diagram

C+



C-



Appendix C Main Testing Instruments and Equipment

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