

Model	Firmware Version	Report No.
SUN2000-300KTL-H0 SUN2000-280KTL-H0 SUN2000-330KTL-H1 SUN2000-330KTL-H2 SUN2000-250KTL-H1 SUN2000-250KTL-H3 SUN2000-275KTL-H1	V500R023	HW0020221129001

IEC60721-3-4 4K4H

Environment Test Report

Tested by:	Zhanlichao 00465286	Date:	2022-07-10 ~ 2022-11-27
Checked by:	Zhangxiaoli 00618293	Date:	2022-11-29
Approved by:	Fanghongmiao 00493854 Caozhen 00545484	Date:	2022-11-29



Huawei Technologies Co., Ltd

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1 General Information

1.1 Standard Compliance

Product Standard:

IEC60721-3-4:1995

Test Methods:

IEC 60068-2-1: 2007

IEC 60068-2-2: 2007

IEC 60068-2-6: 2007

IEC 60068-2-14: 2009

IEC 60068-2-27: 2008

IEC 60068-2-30 :2005

IEC 60068-2-64:2008

IEC 60068-2-78: 2012

IEC 60529 : 2001

IEC 60068-2-11

NB/T 32004:2018

1.2 Test Location

Test Location 1:

Shanghai Sushi Zhongbo Environment Testing Technology Co., Ltd.

Test Location 2:

Shenzhen Yitong Testing Technology Co., Ltd.

Test Location 3:

Guangdong Sushi Zhongbo Testing Technology Co., Ltd.

Test Location 4:

Reliability Laboratory of Huawei Technologies Co., Ltd.

1.3 Testing Environment Condition

Ambient Temperature:

+20°C to +25°C

Relative Humidity:

45% to 55%

Atmospheric Pressure:

101kPa

2 Test Results

2.1 Test Items and Results

Table 1 Test items and results

SN	Test Item	Standard Compliance	Test Parameter	Result	Location
1	Low temperature storage	IEC 60068-2-1 :2007	-40°C, 24h	Pass	Location 1
2	High temperature storage	IEC 60068-2-2 :2007	+70°C, 24h	Pass	Location 1
3	Damp heat steady state storage	IEC60068-2-78 :2012	+60°C, 95%RH, 96h	Pass	Location 1
4	Low temperature operation	IEC 60068-2-1 :2007	-25°C, 24h	Pass	Location 1
5	High temperature operation	IEC 60068-2-2 :2007	+60°C, 24h	Pass	Location 1
6	Temperature cycle operation	IEC 60068-2-14 :2009	-25°C to +60°C, 1°C/min, 3h soaked at each extreme temperature, 2 cycles	Pass	Location 1
7	Damp heat steady state operation	IEC60068-2-78 :2012	+60°C, 95%RH, 96h	Pass	Location 1
8	Damp heat cyclic operation	IEC 60068-2-30 :2005	+25°C~+60°C,95%, 48h	Pass	Location 1
9	Sinusoidal vibration operation (Test sample: package)	IEC 60068-2-6:2007	5 Hz to 9 Hz, Amplitude: 1.2 mm (O-P) 9 Hz to 200 Hz, Acceleration: 1 g 1oct/min, 3 axes, 5sweep cycles per axis	Pass	Location 2
10	Sinusoidal vibration operation (Test sample: product)	IEC 60068-2-6:2007	5 Hz to 9 Hz, Amplitude: 1.2 mm (O-P) 9 Hz to 200 Hz, Acceleration: 0.4 g 1oct/min, 3 axes, 5sweep cycles per axis	Pass	Location 2
11	Random Vibration operation	IEC 60068-2-64:2008	10Hz to 100Hz, Grms: 0.5 30min/ axis, 3 axes,	Pass	Location 2
12	Shock operation	IEC 60068-2-27:2008	Half sine, 11ms, 50m/s ² , 3 axes, 6 times per axis	Pass	Location 2
13	IP66	IEC60529:2001	IP66	Pass	Location 3
14	Salty Test	IEC 60068-2-11	28 days	Pass	Location 4
15	Acoustic test	NB/T 32004	Measurement surface,75dB(A);	Pass	Location 4

2.2 Test Instruments

See the 3rd lab test report.

2.3 Auxiliary Equipments

Table 2 List of test auxiliary instruments

Name	Model	Manufacturer	Asset Number	Calibration Date	Calibration Interval (month)
DC Power Supply	HPVD S4-D2K/500CM1	ActionPower	A2112170486	2021-12-17	12

3 Product Specification

3.1 Main Product

Table 3 Main product specification

SUN2000-280KTL-H0	
Rated Input Voltage	1080V DC,~800V AC,50Hz
Rated Power	280KW
Output Max Power	308KVA
SUN2000-300KTL-H0	
Rated Input Voltage	1080V DC,~800V AC,50Hz
Rated Power	300KW
Output Max Power	330KVA
SUN2000-250KTL-H3	
Rated Input Voltage	1080V DC,~800V AC,50Hz
Rated Power	250KW
Output Max Power	275KVA
SUN2000-250KTL-H1	
Rated Input Voltage	1080V DC,~800V AC,50Hz/60Hz
Rated Power	250KW
Output Max Power	275KVA
SUN2000-330KTL-H1	
Rated Input Voltage	1080V DC,~800V AC,50Hz/60Hz
Rated Power	300KW
Output Max Power	330KVA
SUN2000-330KTL-H2	
Rated Input Voltage	1080V DC,~800V AC,50Hz/60Hz
Rated Power	275KW
Output Max Power	330KVA
SUN2000-275KTL-H1	
Rated Input Voltage	1080V DC,~800V AC,50Hz/60Hz
Rated Power	250KW
Output Max Power	275KVA
Dimensions of the Sample	1048x732x395 mm
Sample Assembly Level	Module
Quantity of the Sample	7 set

NOTE: The hardware (including the circuits, the PCB and the cabinet) is the same for the SUN2000HA V500R023 serial inverter.

3.2 Product photograph and Test Setup

3.2.1 Product photograph



Figure 1. Product photograph

3.2.2 Test Setup

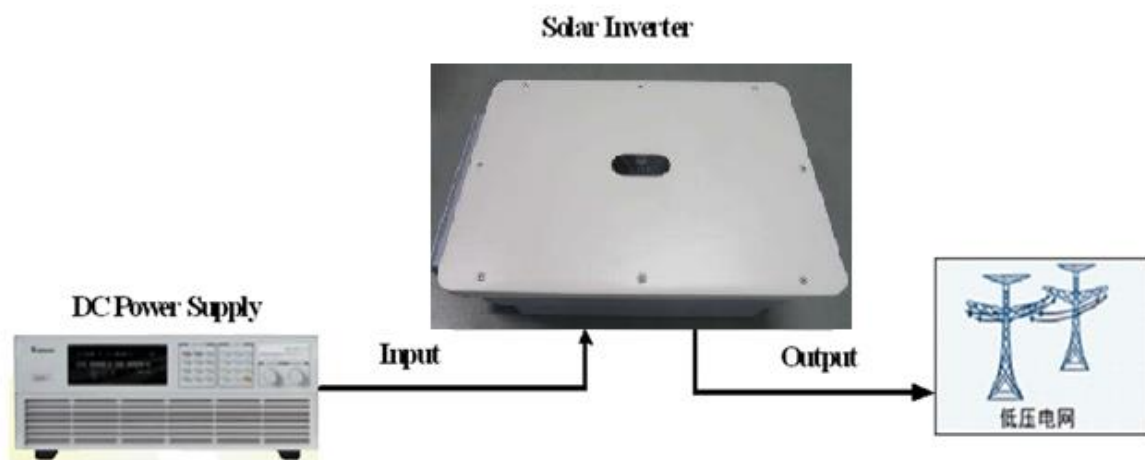


Figure 2. Test Setup

3.3 Board List

Unless otherwise noted in the report, the functional boards installed in the units shall be selected from the below list, but not means all the functional boards listed below shall be installed in one unit.

Table 4 Board list

Board Name	Description	Qty.
ENE9PWRA	Power board	1
ENE9FLTA	Output Board	1
ENE9COMA	Monitor communication Board	1
ENE9FLTB	Output Filter Board	1
ENE9PDBA	Input Filter Board 1	1
ENE9PDBB	Input Filter Board 2	1

ENE8AUPF01	Aux power Board	1
ENE9PDBC	DC switch board 1	1
ENE9PDBD	DC switch board 2	1

4 Detailed Test Data

4.1 Low Temperature Storage

4.1.1 Test Procedure and Test Curve

- 1) Before the test, check mechanical and electronic performance.
- 2) Power off the EUT and put it in the middle of the chamber.
- 3) Decrease the temperature to -40°C at a rate of $1^{\circ}\text{C}/\text{min}$.
- 4) Keep the temperature stay at -40°C for 24 hours.
- 5) Increase the temperature to $+25^{\circ}\text{C}$ at a rate of $1^{\circ}\text{C}/\text{min}$, and keep for 2 hours.
- 6) Power on the EUT and check the mechanical and electronic performance.

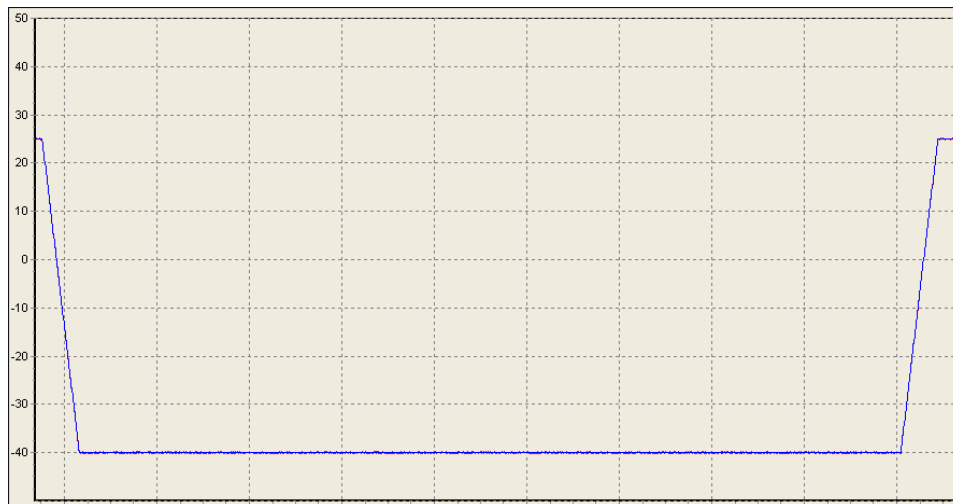


Figure 3. Test curve of low temperature storage

4.1.2 Detailed Test Data

Table 5 Detailed test data of low temperature storage

SN	Check Item	Check Sub-item	Qualification Criterion	Initial Measurement Result	Final Measurement Result
1	Mechanical performance	Connectors	Not broken	Not broken	Not broken
		Components	No distortion or damage	No distortion or damage	No distortion or damage
2	Electrical performance	Device maintenance	Start normally, Output Voltage Within the normal range	Start normally, Output Voltage Within the normal range	Start normally, Output Voltage Within the normal range
		System monitor function	Normal	Normal	Normal
		Alarm information	No any Alarm information	No any Alarm information	No any Alarm information

4.2 High Temperature Storage

4.2.1 Test Procedure and Test Curve

- 1) Before the test, check mechanical and electronic performance.
- 2) Power off the EUT and put it in the middle of the chamber.
- 3) Increase the temperature to +70°C at a rate of 1°C/min.
- 4) Keep the temperature stay at +70°C for 24 hours.
- 5) Decrease the temperature to +25°C at a rate of 1°C/min, and keep for 2 hours.
- 6) Power on the EUT and check the mechanical and electronic performance.

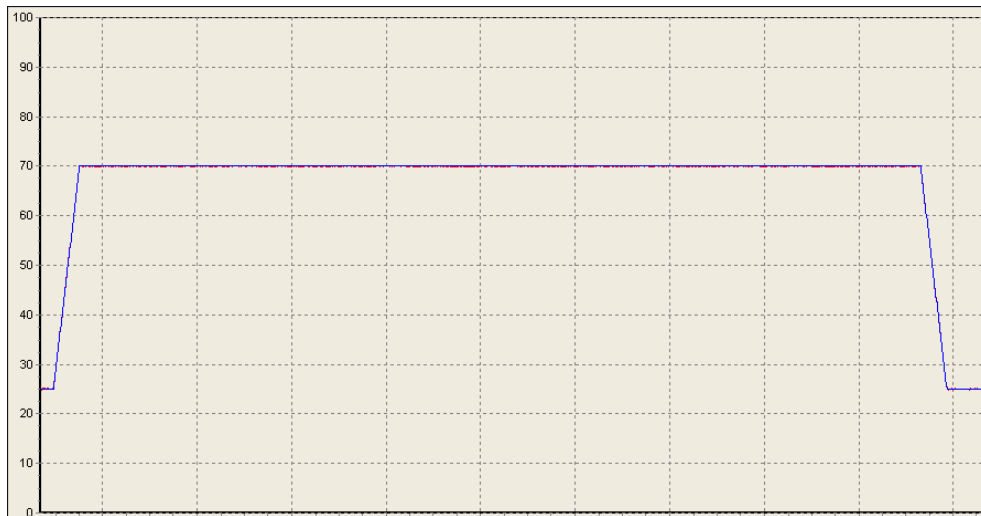


Figure 4. Test curve of high temperature storage

4.2.2 Detailed Test Data

Table 6 Detailed test data of high temperature storage

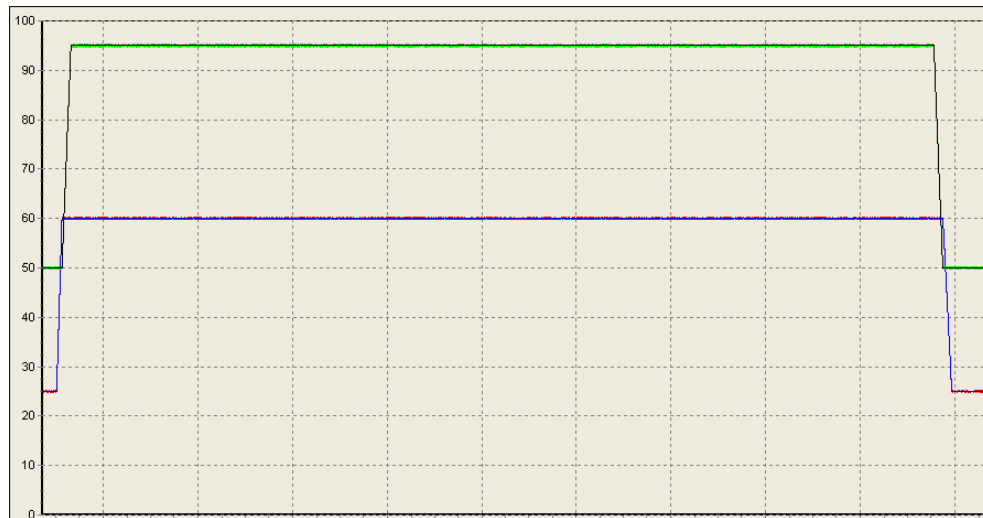
SN	Check Item	Check Sub-item	Qualification Criterion	Initial Measurement Result	Final Measurement Result
1	Mechanical performance	Connectors	Not broken	Not broken	Not broken
		Components	No distortion or damage	No distortion or damage	No distortion or damage
2	Electrical performance	Device maintenance	Start normally, Output Voltage Within the normal range	Start normally, Output Voltage Within the normal range	Start normally, Output Voltage Within the normal range
		System monitor function	Normal	Normal	Normal
		Alarm information	No any Alarm information	No any Alarm information	No any Alarm information

4.3 Damp Heat Steady State Storage

4.3.1 Test Procedure and Test Curve

- 1) Before the test, check the mechanical and electronic performance.
- 2) Power off the EUT and put it in the middle of the chamber.
- 3) Increase the chamber temperature, at a rate of 1°C/min to +60°C.

- 4) While holding the chamber at +60°C, Increase the chamber's RH to 95% in 1 hour.
- 5) Maintain a temperature +60°C and a RH of 95% for at least 96 hours.
- 6) While holding the chamber at +60°C, Decrease the chamber's RH to 50% in 1 hour.
- 7) Decrease the chamber to +25°C in 1 hour.
- 8) Keep +25°C, 50% RH for 2 hours.
- 9) Perform a post-test equipment functionality check after the equipment has recovered at ambient temperature and humidity.



Remark: Blue and red line: temperature, Green line: humidity

Figure 5. Test curve of damp heat steady state storage

4.3.2 Detailed Test Data

Table 7 Detailed test data of damp heat steady state storage

SN	Check Item	Check Sub-item	Qualification Criterion	Initial Measurement Result	Final Measurement Result
1	Mechanical performance	Connectors	Not broken	Not broken	Not broken
		Components	No distortion or damage	No distortion or damage	No distortion or damage
2	Electrical performance	Device maintenance	Start normally, Output Voltage Within the normal range	Start normally, Output Voltage Within the normal range	Start normally, Output Voltage Within the normal range
		System monitor function	Normal	Normal	Normal
		Alarm information	No any Alarm information	No any Alarm information	No any Alarm information

4.4 Low Temperature Operation

4.4.1 Test Procedure and Test Curve

- 1) Before the test, check mechanical and electronic performance.
- 2) Power off the EUT and put it in the middle of the chamber.
- 3) Decrease the temperature to -25°C at a rate of 1°C/min.
- 4) Keep the temperature stay at -25°C for 2 hours, and then power on the EUT.

- 5) Keep the temperature stay at -25°C for 24 hours.
- 6) Increase the temperature to $+25^{\circ}\text{C}$ at a rate of $1^{\circ}\text{C}/\text{min}$, and keep for 2 hours.
- 7) Check the mechanical and electronic performance.



Figure 6. Test curve of low temperature operation

4.4.2 Detailed Test Data

Table 8 Detailed test data of low temperature operation

S N	Check Item	Check Sub-item	Qualification Criterion	Initial Measurement Result	Intermediate Measurement Result	Final Measurement Result
1	Mechanical performanc e	Connectors	Not broken	Not broken	Not broken	Not broken
		Components	No distortion or damage	No distortion or damage	No distortion or damage	No distortion or damage
2	Electrical performanc e	Device maintenance	Start normally, Output Voltage Within the normal range	Start normally, Output Voltage Within the normal range	Start normally, Output Voltage Within the normal range	Start normally, Output Voltage Within the normal range
		System monitor function	Normal	Normal	Normal	Normal
		Alarm information	No any Alarm information	No any Alarm information	No any Alarm information	No any Alarm information

4.5 High Temperature Operation

4.5.1 Test Procedure and Test Curve

- 1) Before the test, check mechanical and electronic performance.
- 2) Power off the EUT and put it in the middle of the chamber.
- 3) Increase the temperature to $+60^{\circ}\text{C}$ at a rate of $1^{\circ}\text{C}/\text{min}$.
- 4) Keep the temperature stay at $+60^{\circ}\text{C}$ for 2 hours, and then power on the EUT.
- 5) Keep the temperature stay at $+60^{\circ}\text{C}$ for 24 hours.
- 6) Decrease the temperature to $+25^{\circ}\text{C}$ at a rate of $1^{\circ}\text{C}/\text{min}$, and keep for 2 hours.
- 7) Check the mechanical and electronic performance.

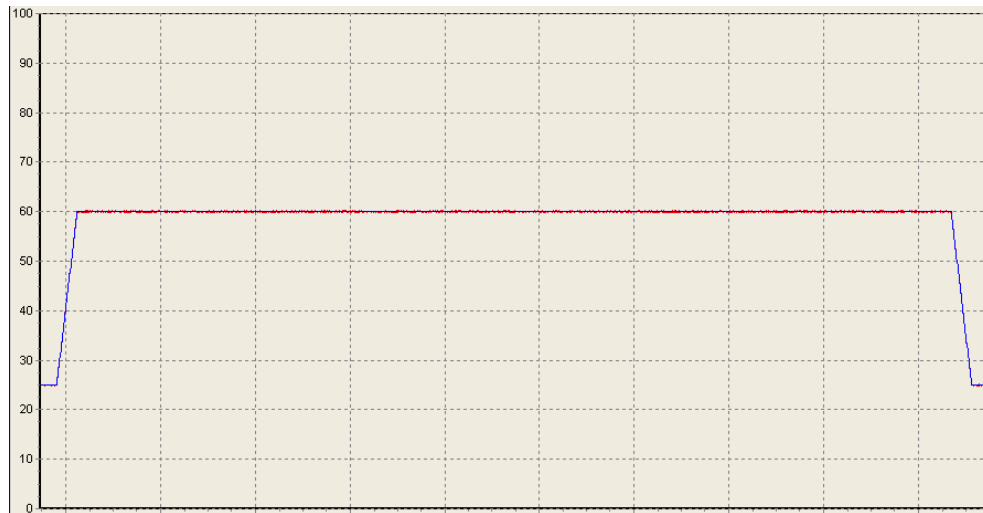


Figure 7. Test curve of high temperature operation

4.5.2 Detailed Test Data

Table 9 Detailed test data of high temperature operation

S N	Check Item	Check Sub-item	Qualification Criterion	Initial Measurement Result	Intermediate Measurement Result	Final Measurement Result
1	Mechanical performance	Connectors	Not broken	Not broken	Not broken	Not broken
		Components	No distortion or damage	No distortion or damage	No distortion or damage	No distortion or damage
2	Electrical performance	Device maintenance	Start normally, Output Voltage Within the normal range	Start normally, Output Voltage Within the normal range	Start normally, Output Voltage Within the normal range	Start normally, Output Voltage Within the normal range
		System monitor function	Normal	Normal	Normal	Normal
		Alarm information	No any Alarm information	No any Alarm information	No any Alarm information	No any Alarm information

4.6 Temperature Cycle Operation

4.6.1 Test Procedure and Test Curve

- 1) Before the test, check mechanical and electronic performance.
- 2) Put the EUT in the middle of the chamber and power on the EUT.
- 3) Decrease the temperature to -25°C at a rate of $1^{\circ}\text{C}/\text{min}$, and then keep the temperature stay at -25°C for 3 hours.
- 4) Increase the temperature to $+60^{\circ}\text{C}$ at a rate of $1^{\circ}\text{C}/\text{min}$, and then keep the temperature stay at $+60^{\circ}\text{C}$ for 3 hours.
- 5) Repeat step 3) and step 4) to check the electric performance during the conditional test.
- 6) Decrease the temperature to $+25^{\circ}\text{C}$ at a rate of $1^{\circ}\text{C}/\text{min}$, and keep for 2 hours.
- 7) Check the mechanical and electronic performance.

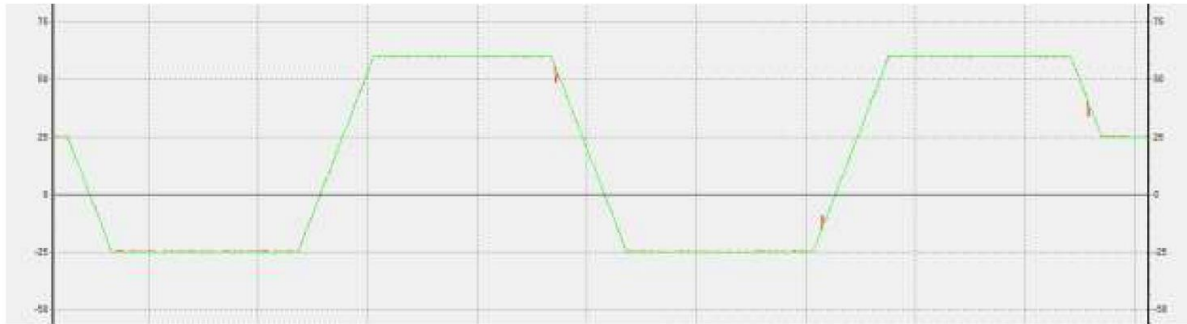


Figure 8. Test curve of temperature cycle operation

4.6.2 Detailed Test Data

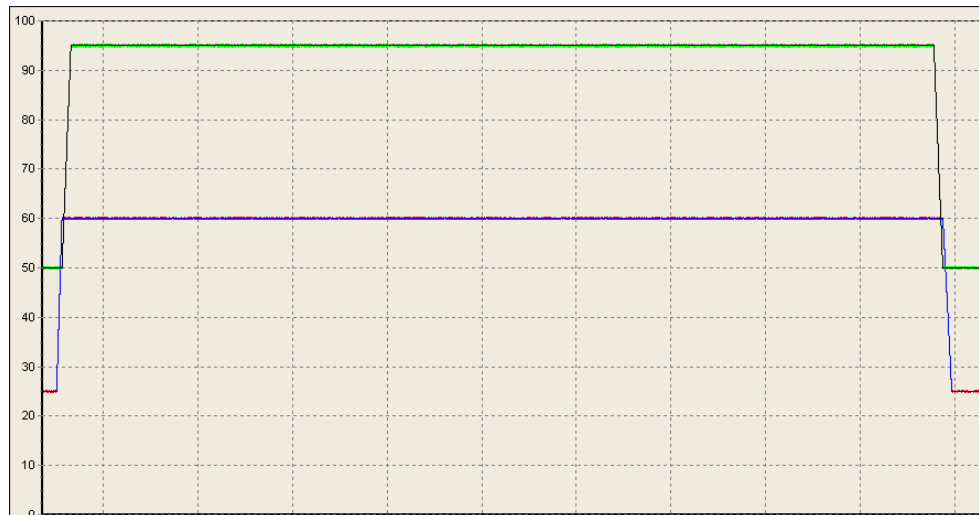
Table 10 Detailed test data of temperature cycle operation

S N	Check Item	Check Sub-item	Qualification Criterion	Initial Measurement Result	Intermediate Measurement Result	Final Measurement Result
1	Mechanical performanc e	Connectors	Not broken	Not broken	Not broken	Not broken
		Components	No distortion or damage	No distortion or damage	No distortion or damage	No distortion or damage
2	Electrical performanc e	Device maintenance	Start normally, Output Voltage Within the normal range	Start normally, Output Voltage Within the normal range	Start normally, Output Voltage Within the normal range	Start normally, Output Voltage Within the normal range
		System monitor function	Normal	Normal	Normal	Normal
		Alarm information	No any Alarm information	No any Alarm information	No any Alarm information	No any Alarm information

4.7 Damp heat steady state operation

4.7.1 Test Procedure and Test Curve

- 1) Before the test, check the mechanical and electronic performance.
- 2) Power off the EUT and put it in the middle of the chamber.
- 3) Increase the chamber temperature, at a rate of 1°C/min to +60°C.
- 4) While holding the chamber at +60°C, Increase the chamber's RH to 95% in 1 hour.
- 5) Maintain a temperature +60°C and a RH of 95% for at least 96 hours.
- 6) While holding the chamber at +60°C, Decrease the chamber's RH to 50% in 1 hour.
- 7) Decrease the chamber to +25°C in 1 hour.
- 8) Keep +25°C, 50% RH for 2 hours.
- 9) Check the mechanical and electronic performance (final measurement).



Remark: Blue and red line: temperature, Green line: humidity

Figure 9. Test curve of damp heat steady state storage

4.7.2 Detailed Test Data

Table 11 Detailed test data of damp heat cyclic operation

S N	Check Item	Check Sub-item	Qualification Criterion	Initial Measurement Result	Intermediate Measurement Result	Final Measurement Result
1	Mechanical performanc e	Connectors	Not broken	Not broken	Not broken	Not broken
		Components	No distortion or damage	No distortion or damage	No distortion or damage	No distortion or damage
2	Electrical performanc e	Device maintenance	Start normally, Output Voltage Within the normal range	Start normally, Output Voltage Within the normal range	Start normally, Output Voltage Within the normal range	Start normally, Output Voltage Within the normal range
		System monitor function	Normal	Normal	Normal	Normal
		Alarm information	No any Alarm information	No any Alarm information	No any Alarm information	No any Alarm information

4.8 Damp Heat Cyclic Operation

4.8.1 Test Procedure and Test Curve

- 1) Before the test, check mechanical and electronic performance (initial measurement).
- 2) Put the EUT in the middle of the chamber.
- 3) Increase the humidity of the chamber to 95%RH within 1 hour with the temperature at +25°C.
- 4) Increase the temperature in the chamber to +60°C in 3h with the humidity stable at 95% RH.
- 5) Keep the temperature in the chamber at +60°C and 95%RH for 9 hours.
- 6) Decrease the temperature to +25°C within 3 hours, with the humidity stable at 95% RH.
- 7) Keep the temperature in the chamber at +25°C, 95%RH for 9 hours.
- 8) Repeat steps 4) to 7).
- 9) Decrease the humidity to 50% within 1 hour, keep the temperature stay at +25°C, and check the electric performance during the conditional test.
- 10) Keep the EUT stay at +25°C and 50%RH for 2 hours (recovery).

11) Check the mechanical and electronic performance (final measurement).

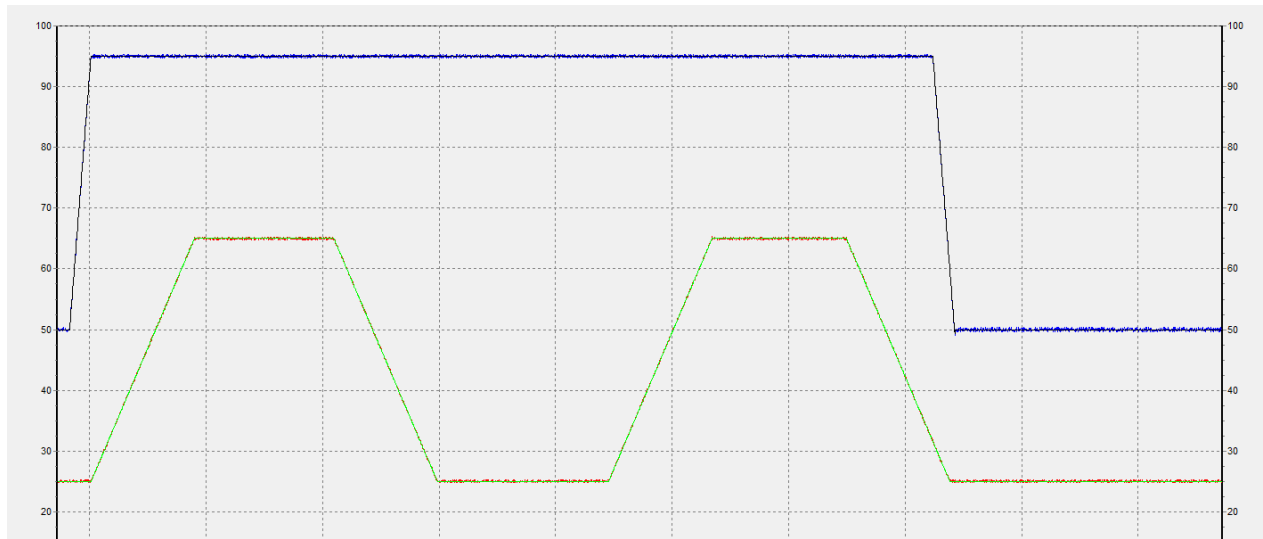


Figure 10. Test curve of damp heat cyclic operation

4.8.2 Detailed Test Data

Table 12 Detailed test data of damp heat cyclic operation

S N	Check Item	Check Sub-item	Qualification Criterion	Initial Measurement Result	Intermediate Measurement Result	Final Measurement Result
1	Mechanical performanc e	Connectors	Not broken	Not broken	Not broken	Not broken
		Components	No distortion or damage	No distortion or damage	No distortion or damage	No distortion or damage
2	Electrical performanc e	Device maintenance	Start normally, Output Voltage Within the normal range	Start normally, Output Voltage Within the normal range	Start normally, Output Voltage Within the normal range	Start normally, Output Voltage Within the normal range
		System monitor function	Normal	Normal	Normal	Normal
		Alarm information	No any Alarm information	No any Alarm information	No any Alarm information	No any Alarm information

4.9 Sinusoidal Vibration Operation

4.9.1 Test Procedure and Test Curve

- 1) Before the test, check all performance.
- 2) Mount the package on the shaker table at its normal position.
- 3) Set the vibration test conditions and begin to test. During testing, monitor all performance.
- 4) Change the package to the other two axes on the table in turn and run the test once for each axis. During testing, monitor all performance.

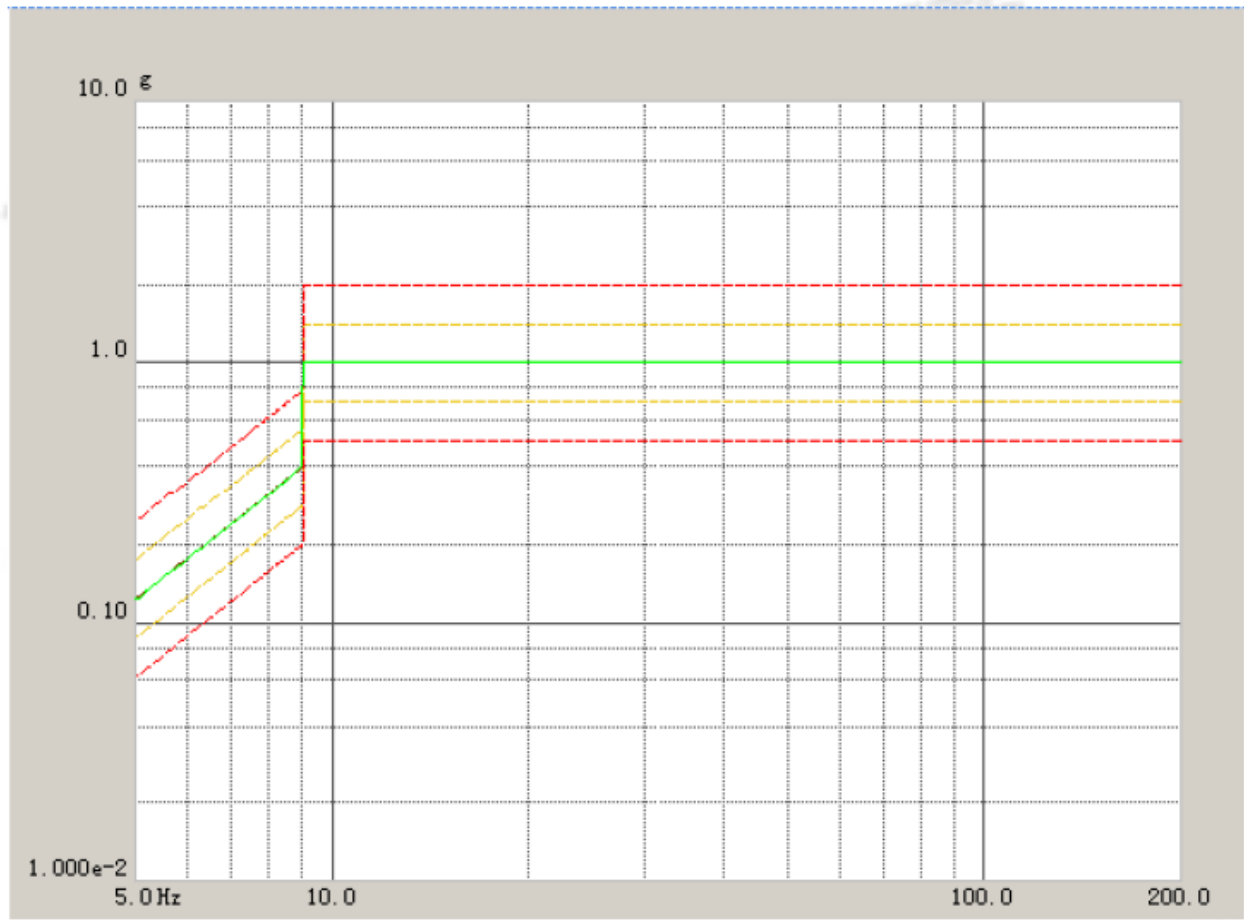


Figure 11. Test curve of sinusoidal vibration operation

4.9.2 Detailed Test Data

Table 13 Detailed test data of sinusoidal vibration operation

S N	Check Item	Check Sub-item	Qualification Criterion	Initial Measurement Result	Intermediate Measurement Result	Final Measurement Result
1	Mechanical performance	Connectors	Not broken	Not broken	Not broken	Not broken
		Components	No distortion or damage	No distortion or damage	No distortion or damage	No distortion or damage
2	Electrical performance	Device maintenance	Start normally, Output Voltage Within the normal range	Start normally, Output Voltage Within the normal range	Normal	Start normally, Output Voltage Within the normal range
		System monitor function	Normal	Normal	Normal	Normal
		Alarm information	No any Alarm information	No any Alarm information	No any Alarm information	No any Alarm information

4.10 Sinusoidal Vibration Operation

4.10.1 Test Procedure and Test Curve

- 5) Before the test, check all performance.
- 6) Mount the EUT on the shaker table at its normal position.

- 7) Power on the EUT.
- 8) Set the vibration test conditions and begin to test. During testing, monitor all performance.
- 9) Change the EUT to the other two axes on the table in turn and run the test once for each axis. During testing, monitor all performance.

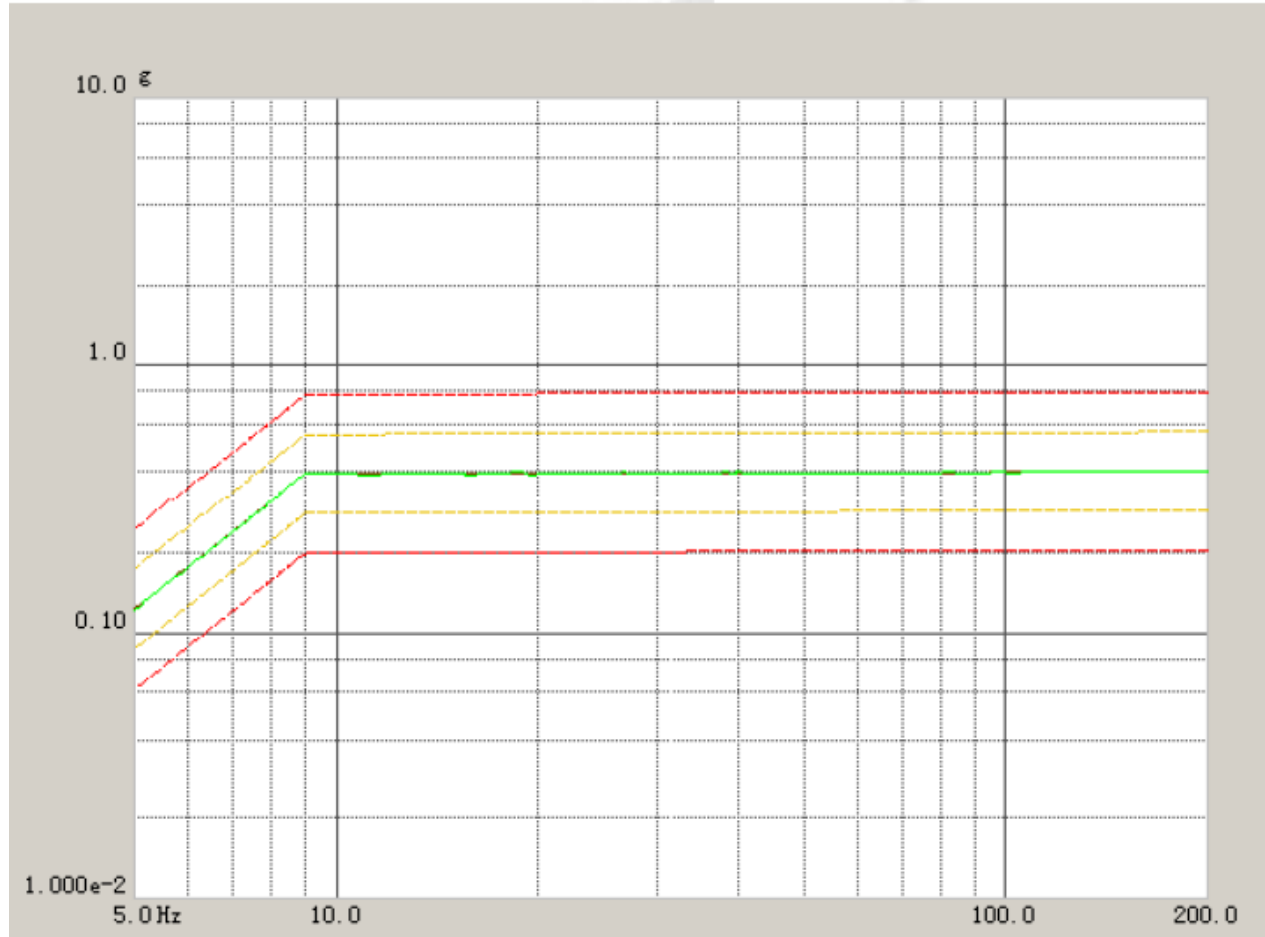


Figure 12. Test curve of sinusoidal vibration operation

4.10.2 Detailed Test Data

Table 14 Detailed test data of sinusoidal vibration operation

S N	Check Item	Check Sub-item	Qualification Criterion	Initial Measurement Result	Intermediate Measurement Result	Final Measurement Result
1	Mechanical performanc e	Connectors	Not broken	Not broken	Not broken	Not broken
		Components	No distortion or damage	No distortion or damage	No distortion or damage	No distortion or damage
2	Electrical performanc e	Device maintenance	Start normally, Output Voltage Within the normal range	Start normally, Output Voltage Within the normal range	Start normally, Output Voltage Within the normal range	Start normally, Output Voltage Within the normal range
		System monitor function	Normal	Normal	Normal	Normal
		Alarm information	No any Alarm information	No any Alarm information	No any Alarm information	No any Alarm information

4.11 Random Vibration operation

4.11.1 Test Procedure and Test Curve

- 1) Before the test, check all performance.
- 2) Mount the EUT on the shock tester table at its normal operating position.
- 3) Power on the EUT.
- 4) Set the shock test conditions and begin to test. During testing, monitor all performance.
- 5) Change the EUT to the other two axes on the table in turn. During testing, monitor all performance.

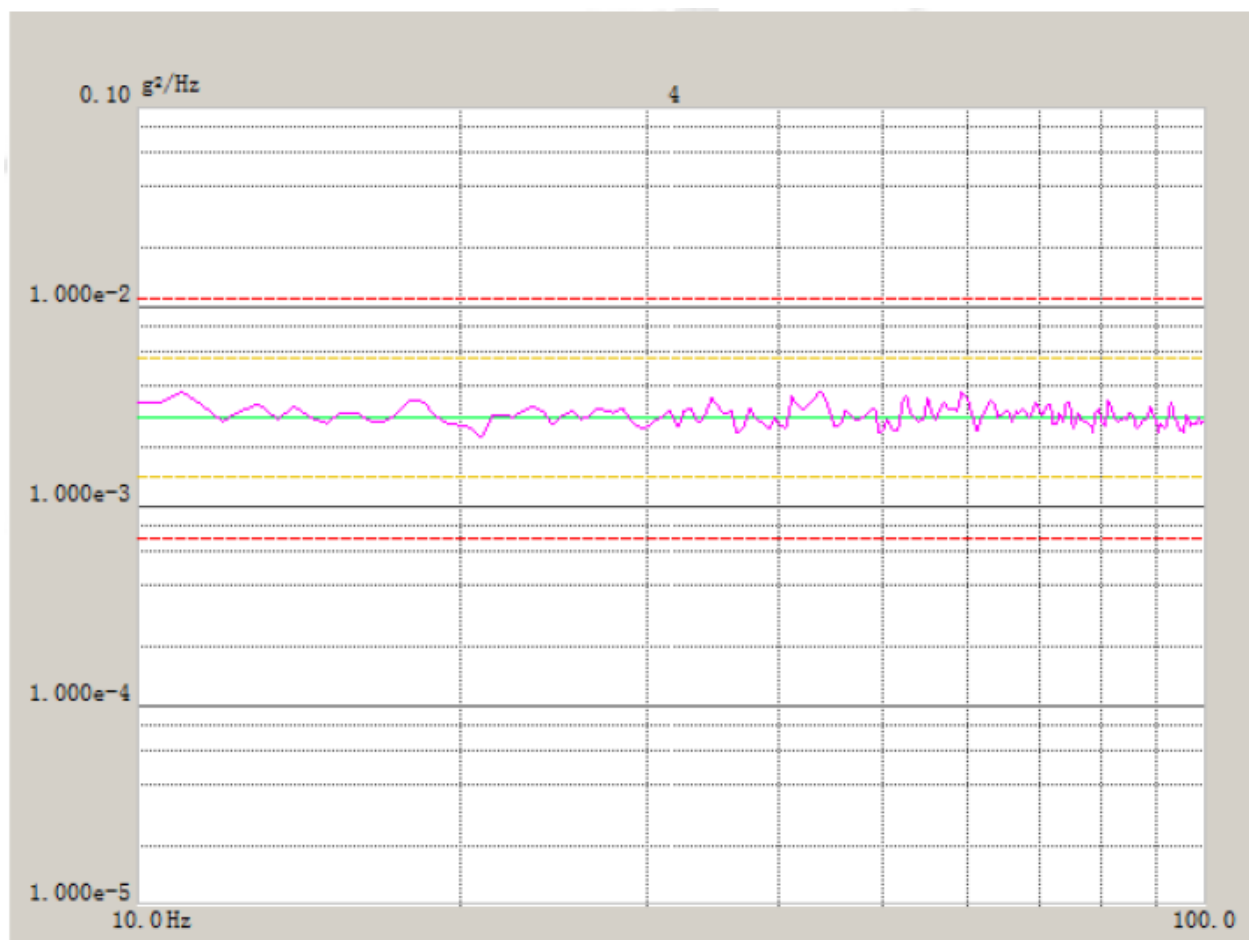


Figure 13. Test curve of Random Vibration operation

4.11.2 Detailed Test Data

Table 15 Detailed test data of shock operation

S N	Check Item	Check Sub-item	Qualification Criterion	Initial Measurement Result	Intermediate Measurement Result	Final Measurement Result
1	Mechanical performance	Connectors	Not broken	Not broken	Not broken	Not broken
		Components	No distortion or damage	No distortion or damage	No distortion or damage	No distortion or damage
2		Device maintenance	Start normally,	Start normally,	Start normally,	Start normally,

	Electrical performance		Output Voltage Within the normal range	Output Voltage Within the normal range	Output Voltage Within the normal range	Output Voltage Within the normal range
		System monitor function	Normal	Normal	Normal	Normal
		Alarm information	No any Alarm information	No any Alarm information	No any Alarm information	No any Alarm information

4.12 Shock Operation

4.12.1 Test Procedure and Test Curve

- 6) Before the test, check all performance.
- 7) Mount the EUT on the shock tester table at its normal operating position.
- 8) Power on the EUT.
- 9) Set the shock test conditions and begin to test. During testing, monitor all performance.
- 10) Change the EUT to the other two axes on the table in turn. During testing, monitor all performance.

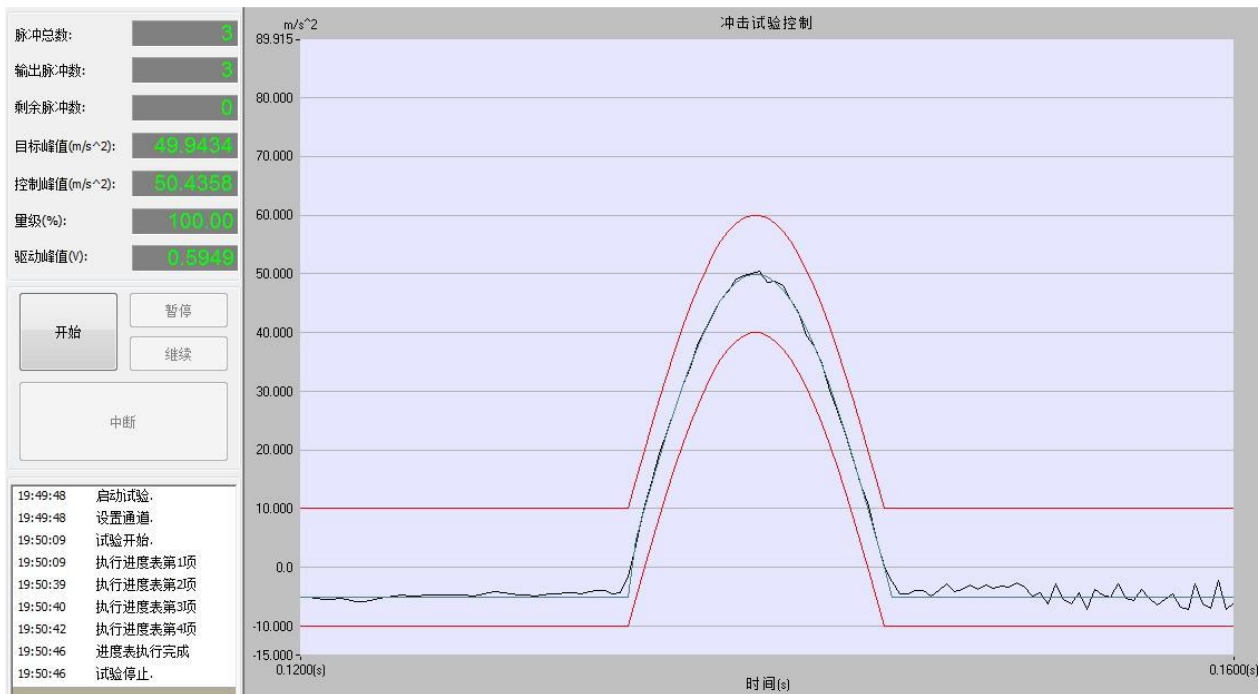


Figure 14. Test curve of shock operation

4.12.2 Detailed Test Data

Table 16 Detailed test data of shock operation

S N	Check Item	Check Sub-item	Qualification Criterion	Initial Measurement Result	Intermediate Measurement Result	Final Measurement Result
1	Mechanical performance	Connectors	Not broken	Not broken	Not broken	Not broken
		Components	No distortion or damage	No distortion or damage	No distortion or damage	No distortion or damage
2	Electrical performance	Device maintenance	Start normally, Output Voltage Within the normal range	Start normally, Output Voltage Within the normal range	Start normally, Output Voltage Within the normal range	Start normally, Output Voltage Within the normal range

		System monitor function	Normal	Normal	Normal	Normal
		Alarm information	No any Alarm information	No any Alarm information	No any Alarm information	No any Alarm information

4.13 IP Test

The test results meet the standard IEC60529-2001. For more details, see test report GDGT-H/R-202209-01-189-EN.

4.14 Salty Test

The test results meet the standard IEC60068-2-11. For more details ,see test report SYBH(H)10137937.

4.15 Acoustic Test

4.15.1 Test Procedure

- 1) Put the sample in the center of the hemi-anechoic room.
- 2) The locations of microphones are lay as the following figure.
- 3) Measure the background noise.
- 4) Power on the EUT, then adjust fan speed.
- 5) Record the data of the measurement points, and then calculate the sound power level.d=1m

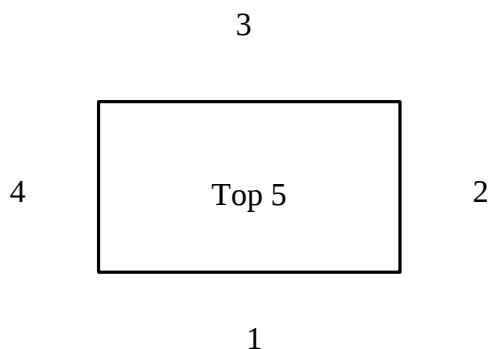


Figure 15. Photograph of Acoustic Test

4.15.2 Detailed Test Data

- 1) Sound pressure level produced by equipment while the rotational speed of air moving devices within the equipment under test is set to the speed that the devices would run at when the equipment is operating in an ambient temperature equal to full speed.

Table 17 Detailed test data of acoustic test

Test Item	Measurement max Point	Sound Pressure Level (dB(A))
Acoustic test		70.3
Background noise		20.6 dB(A)
Qualification criterion		≤75dB(A)

5 Test Photos



Figure 16. Photograph of Climate test



Figure 17. Photograph of Vibration and Shock operation Test



Figure 18. Photograph of IP66 Test



Figure 19. Photograph of Salty Test

Appendix Abbreviations

Abbreviation	Full Name
NA	

END