YIXING NAIER WIND POWER TECHNOLOGY CO., LTD

CE EMC REPORT

Prepared For :	Yixing Naier wind power technology Co., Ltd No.288 Hubin North Road, Zhou Tie Town, Wuxi, Jiangsu, China
Product Name:	Wind generator
Trade Name:	/
Model :	NE-50K
Additional :	NE-100、NE-200、NE-300、NE-400、NE-500、NE-600、NE-800、NE-50K0、NE-1500、NE-2000、NE-2500、NE-3000、NE-5000、NE-10K、NE-20K、NE-30K、NE-40K、NE-60K、NE-70K、NE-75K、NE-80K、NE-90K、NE-50KK、NE-200K、NE-250K、NE-300K、NE-400K、NE-500K、NE-50K0K
Prepared By :	BST Testing (Shenzhen) Co., Ltd. No.7, New Era Industrial Zone, Guantian, Bao'an District, Shenzhen, Guangdong, China
Test Date:	Jun. 02- Jun. 10, 2025
Date of Report :	Jun. 10, 2025
Report No.:	XDAY45

BST TESTING (SHENZHEN) CO.,LTD. APPROVED

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1. TEST RESULTS SUMMARY

Table 1 Test Results Summary

Test Items	Test Results
Radiated Emission	PASS
Conducted Disturbance	PASS
Electrostatic Discharge Immunity	PASS
Radiated Electromagnetic Fields Immunity	PASS
Electric Fast Transient Burst Immunity	PASS
Surge Immunity	PASS
Injected currents susceptibility test	PASS
Voltage dips and interruptions Immunity	PASS

2. GENERAL INFORMATION

2.1. Report information

2.1.1. This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that BST approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that BST in any way guarantees the later performance of the product/equipment.

2.1.2. The sample/s mentioned in this report is/are supplied by Applicant, BST therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.

2.1.3. Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through BST, unless the applicant has authorized BST in writing to do so.

2.2. Measurement Uncertainty

(95% confidence levels, k=2)

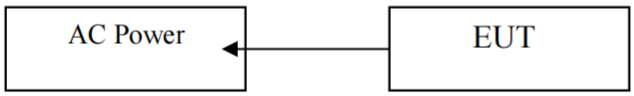
Test Item	**Uncertainty**
Uncertainty for Radiation emission test (30MHz to 1GHz)	4.0dB

3. PRODUCT DESCRIPTION

3.1. EUT Description

Description	:	Wind generator
Applicant	:	Yixing Naier wind power technology Co., Ltd No.288 Hubin North Road, Zhou Tie Town, Wuxi, Jiangsu, China
Manufacturer	:	Yixing Naier wind power technology Co., Ltd No.288 Hubin North Road, Zhou Tie Town, Wuxi, Jiangsu, China
Model Number	:	NE-50K (Note: The series products have the same circuit diagram, PCB layout and functionality. The differences are the model name and appearance, so, we select,NE-50K to test.)

3.2. Block Diagram of EUT Configuration



3.3. Operating Condition of EUT

Test mode 1: ON

3.4. Test Conditions

Temperature: 23-26℃
Relative Humidity: 55-68 %

3.5. Modifications

No modification was made.

3.6. Abbreviations

AC	Alternating Current
AMN	Artificial Mains Network
DC	Direct Current
EM	ElectroMagnetic
EMC	ElectroMagnetic Compatibility
EUT	Equipment Under Test
IF	Intermediate Frequency
RF	Radio Frequency
rms	root mean square
EMI	Electromagnetic Interference
EMS	Electromagnetic Susceptibility

3.7. Performance Criterion

Criterion A: The equipment shall continue to operate as intended without operator intervention. No degradation of performance of loss of function is allowed below a performance level specified by the manufacturer when the equipment is used as intended.

Criterion B: After the test, the equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacturer, when the equipment is used as intended.

Criterion C: Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions.

4. TEST EQUIPMENT USED

4.1. For Conducted Emission Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS30	828985/018	Sep. 28, 24	1 Year
2.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	Sep. 28, 24	1 Year
3.	L.I.S.N.	Rohde & Schwarz	ESH2-Z5	834549/005	Sep. 28, 24	1 Year
4.	Conical	Emtek	N/A	N/A	N/A	N/A
5.	Voltage Probe	Schwarzbeck	TK9416	N/A	Sep. 28, 24	1 Year
6.	Coaxial Switch	Anritsu	MP59B	6100214550	Sep. 28, 24	1 Year

4.2. For Radiated Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	ANRITSU	MS2661C	6200140915	Sep. 28, 24	1 Year
2.	Test Receiver	Rohde&Schwarz	ESC830	828982/018	Sep. 28, 24	1 Year
3.	Bilog Antenna	Schwarzbeck	VULB9163	142	Sep. 28, 24	1 Year
4.	50 Coaxial Switch	Anritsu Corp	MP59B	6100237248	Sep. 28, 24	1 Year
5.	Cable	Schwarzbeck	AK9513	ACRX1	Sep. 28, 24	1 Year
6.	Cable	Rosenberger	N/A	FR2RX2	Sep. 28, 24	1 Year
7.	Cable	Schwarzbeck	AK9513	CRRX2	Sep. 28, 24	1 Year
8.	Cable	Schwarzbeck	AK9513	CRRX2	Sep. 28, 24	1 Year
9.	Signal Generator	HP	864A	3625U00573	Sep. 28, 24	1 Year

4.3. For Harmonic / Flicker Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Harmonic and Flicker analyzer	Laplace	AC2000A	309709	Sep. 28, 24	1 Year

4.4. For Electrostatic Discharge Immunity Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	ESD Tester	HAEFELY	PSD 1600	H911'292	Sep. 28, 24	1 Year

4.5. For RF Strength Susceptibility Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Signal Generator	HP	8648A	3633A02081	Sep. 28, 24	1 Year
2.	Amplifier	A&R	500A100	17034	NCR	NCR
3.	Amplifier	A&R	100W/1000M1	17028	NCR	NCR
4.	Isotropic Field Monitor	A&R	FM2000	16829	NCR	NCR
5.	Isotropic Field Probe	A&R	FLW220100	16755	Sep. 28, 24	1 Year
6.	Biconic Antenna	EMCO	3108	9507-2534	NCR	NCR
7.	Log-periodic Antenna	A&R	AT1080	16812	NCR	NCR
8.	PC	N/A	486DX2	N/A	N/A	N/A

4.6. For Electrical Fast Transient/Burst Immunity Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Burst Tester	HAEFELY	PEFT 4010	080981-16	Sep. 28, 24	1 Year

4.7. For Surge Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Surge Tester	HAEFELY	PSURGE4.1	080107-04	Sep. 28, 24	1 Year

4.8. For Injected Currents Susceptibility Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Simulator	EMTEST	CWS 500C	0900-12	Sep. 28, 24	1 Year
2.	CDN	EMTEST	CDN-M2	510010010010	Sep. 28, 24	1 Year
3.	VDN	EMTEST	CDN-M3	0900-11	Sep. 28, 24	1 Year
4.	Injection Clamp	EMTEST	F-2031-23MM	368	Sep. 28, 24	1 Year
5.	Attenuator	EMTEST	ATT6	0010222a	Sep. 28, 24	1 Year

4.9. For Magnetic Field Immunity Test

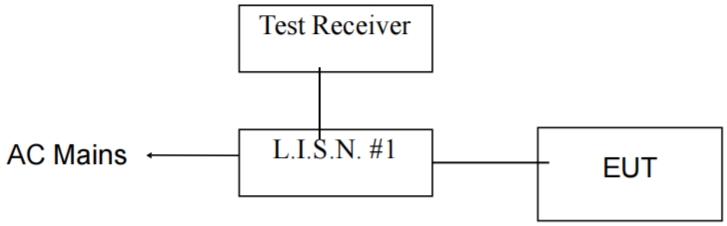
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Magnetic Field Tester	HEAFELY	MAG100.1	083858-10	Sep. 28, 24	1 Year

4.10. For Voltage Dips and Interruptions Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Dips Tester	HEAFELY	PLINE 1610	083732-18	Sep. 28, 24	1 Year

5. POWER LINE CONDUCTED EMISSION TEST

5.1. Block Diagram of Test Setup



5.2. Test Standard

EN IEC 61000-6-3:2021

5.3. Power Line Conducted Emission Limit

Frequency MHz	Limits dB(V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

5.4. EUT Configuration on Test

The following equipments are installed on conducted emission test to meet EN61000-6-3 requirement and operating in a manner, which tends to maximize its emission characteristics in a normal application.

5.4.1. EUT Information

Model Number	:	NE-50K
Serial Number	:	NE-100、NE-200、NE-300、NE-400、NE-500、NE-600、NE-800、NE-50K0、NE-1500、NE-2000、NE-2500、NE-3000、NE-5000、NE-10K、NE-20K、NE-30K、NE-40K、NE-50K、NE-60K、NE-70K、NE-75K、NE-80K、NE-90K、NE-50KK、NE-200K、NE-250K、NE-300K、NE-400K、NE-500K、NE-50K0K12/120、Smart E12/134、Smart E12/150、Smart E12/160、Smart E12/180、Smart E12/200、Smart E12/220、NE-50K
Manufacturer	:	Yixing Naier wind power technology Co., Ltd

5.5. Operating Condition of EUT

5.5.1.Setup the EUT and simulators as shown in Section 5.1. 5.5.2.Turn on the power of all equipments.

5.5.3.Let the EUT work in test modes (ON) and test it.

5.6. Test Procedure

The EUT is put on the ground and connected to the AC mains through a Artificial Mains Network (AMN). This provided 50ohm-coupling impedance for the tested equipments. Both sides of AC line are checked to find out the maximum conducted emission levels according to the EN61000-6-3 regulations during conducted emission test.

The bandwidth of the test receiver is set at 9kHz.

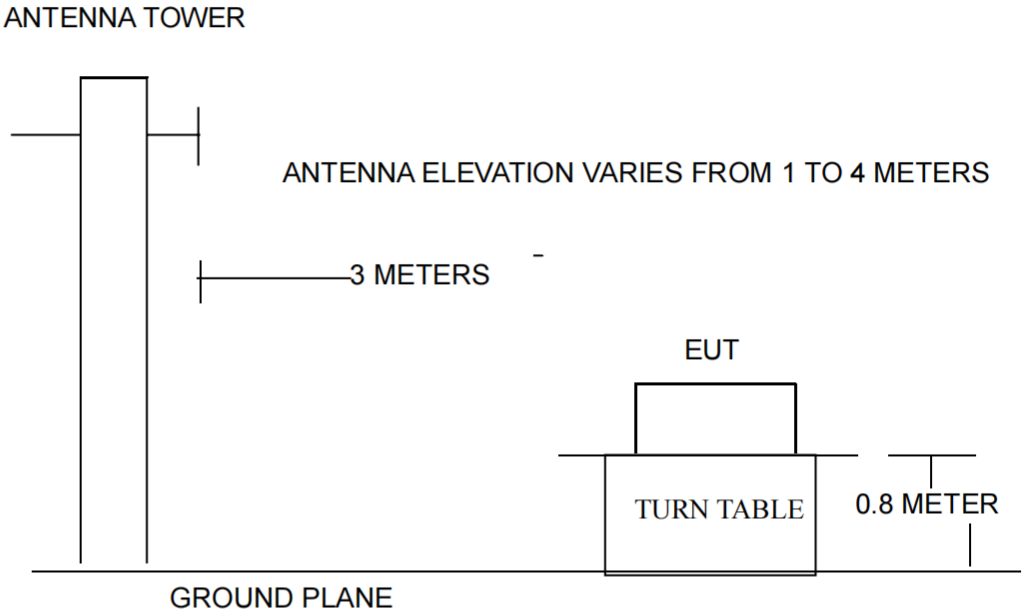
The frequency range from 150 kHz to 30 MHz is investigated.

5.7. Test Result

PASS

6. RADIATED EMISSION TEST

6.1. Setup Diagram



6.2. Test Standard

EN IEC 61000-6-3:2021

6.3. Radiated Emission Limit

All emanations from a Class B computing devices or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMITS (dB V/m)
30 ~ 230	3	40
230 ~ 1000	3	47

Note:(1) The tighter limit shall apply at the edge between two frequency bands.
(2) Distance refers to the distance in meters between the measuring instruments antenna and the closed point of any part of the EUT.

6.4. EUT Configuration on Test

The EN61000-6-3 Class B regulations test method must be used to find the maximum emission during radiated emission test.

6.5. Operating Condition of EUT

6.5.1.Setup the EUT as shown on

Section 6.1. 6.5.2.Turn on the power

of all equipments.

6.5.3.Let the EUT work in test mode(On) and measure it.

6.6. Test Procedure

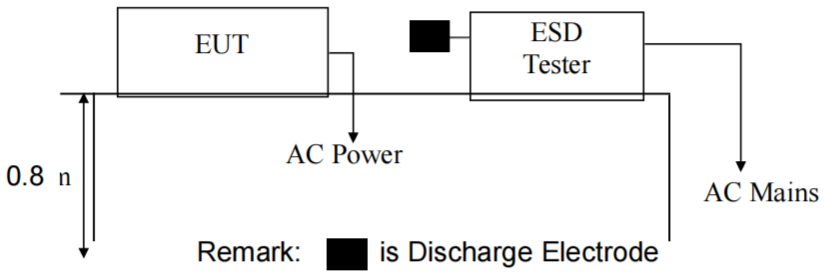
The EUT is placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna (calibrated by dipole antenna) are used as a receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.
The bandwidth setting on the test receiver is 120 KHz.
The EUT is tested in Semi-Anechoic Chamber. and all the scanning waveform is put in **Appendix I.**

6.7. Test Results

PASS

7. ELECTROSTATIC DISCHARGE TEST

7.1. Block Diagram of ESD Test Setup



7.2. Test Standard

EN IEC 61000-6-1: 2019 (EN61000-4-2:2009)

Severity Level 3 for Air Discharge at 8KV

Severity Level 2 for Contact Discharge at 4KV

7.3. Severity Levels and Performance Criterion

7.3.1Severity level

Level	Test Voltage Contact Discharge (KV)	Test Voltage Air Discharge (KV)
1.	2	2
2.	4	4
3.	6	8
4.	8	15
X.	Special	Special

7.3.2Performance criterion: B

7.4. EUT Configuration on Test

The configuration of EUT are listed in Section 3.2.

7.5. Operating Condition of EUT

7.5.1.Setup the EUT as shown in Section
7.5.2.Turn on the power of all equipments.
7.5.3.Let the EUT work in test mode (on) and test i

7.6. Test Procedure

7.6.1.Air Discharge:

This test is done on a non-conductive surfaces. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

7.6.2.Contact Discharge:

All the procedure shall be same as Section 9.6.1. except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

7.6.3.Indirect discharge for horizontal coupling plane

At least 20 single discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode positions vertically at a distance of 0.1m from the EUT and with the discharge electrode touching the coupling plane.

7.6.4.Indirect discharge for vertical coupling plane

At least 20 single discharge shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

7.7. Test Results

PASS.

Please refer to the following page.

1.ELECTROSTATIC DISCHARGE TEST RESULTS

BST Testing (Shenzhen) Co.,Ltd.

Applicant :	Yixing Naier wind power technology Co., Ltd	Test Date :	Jun. 02, 2024
EUT :	Wind generator	Temperature :	22℃
M/N :	NE-50K	Humidity :	50%
Power Supply :	AC 380V	Test Mode :	on

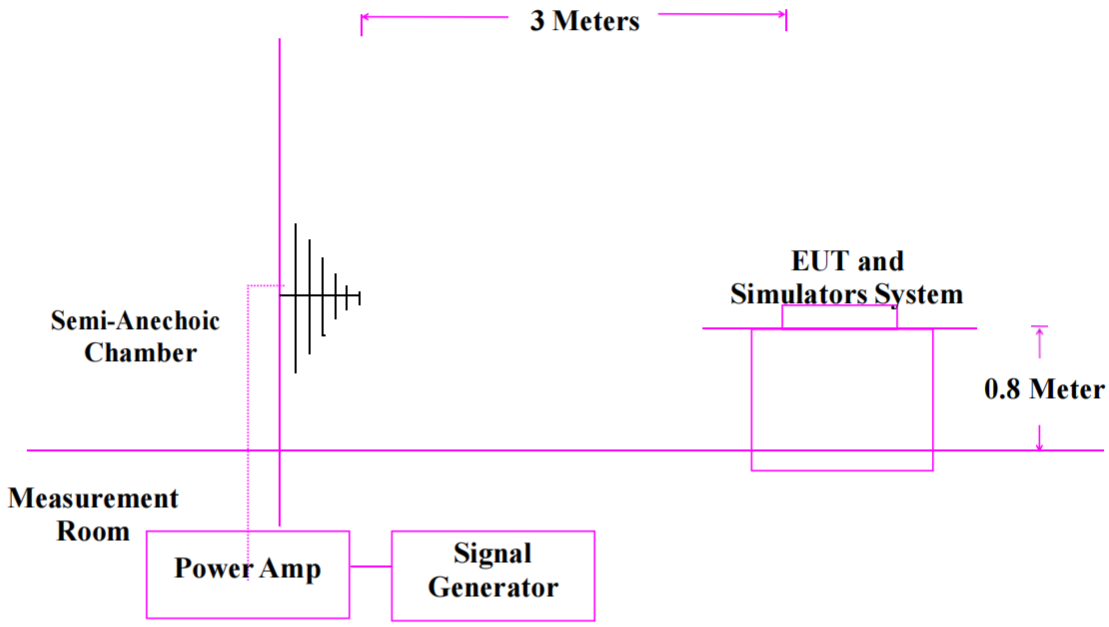
Air Discharge: ±8KV For each point positive 10 times and negative 10 times discharge. Contact Discharge: ±4KV

Location	Kind A-Air Discharge C-Contact Discharge	Result
Slots 10points	A	PASS
Metal 10points	A	PASS
HCP 8points	C	PASS
VCP 8points	C	PASS

Discharge should be considered on Contact and Air and Horizontal Coupling Plane (HCP) and Vertical Coupling Plane (VCP).

8. RF FIELD STRENGTH SUSCEPTIBILITY TEST

8.1. R/S Test Setup



8.2. Test Standard

EN IEC 61000-6-1: 2019 (EN 61000-4-3:2006 + A1:2008 + A2:2010)
Severity Level 2 at 3V / m

8.3. Severity Levels and Performance Criterion

8.3.1. Severity level

Level	Field Strength V/m
1.	1
2.	3
3.	10
X.	Special

8.3.2. Performance criterion : A

8.4. EUT Configuration on Test

The configuration of EUT are listed in Section 3.2

8.5. Operating Condition of EUT

Setup the EUT as shown in Section 10.1.. The operating condition of EUT are listed in section 3.3.

8.6. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above the ground. The EUT is set 3 meters away from the transmitting antenna which is mounted on an antenna tower. Both horizontal and vertical polarization of the antenna are set on test. Each of the four sides of EUT must be faced this transmitting antenna and measured individually.
In order to judge the EUT performance, a CCD camera is used to monitor the EUT. All the scanning conditions are as follows :

Condition of Test	Remarks
1. Fielded Strength	3 V/m (Severity Level 2)
2. Radiated Signal	Modulated
3. Scanning Frequency	80 - 1000 MHz, 1.4GHz-2.7GHz
4. Sweeping time of radiated	0.0015 decade/s
5. Dwell Time	1 Sec.

8.7. Test Results

PASS.

Please refer to the following page.

2.RF FIELD STRENGTH SUSCEPTIBILITY TEST RESULTS

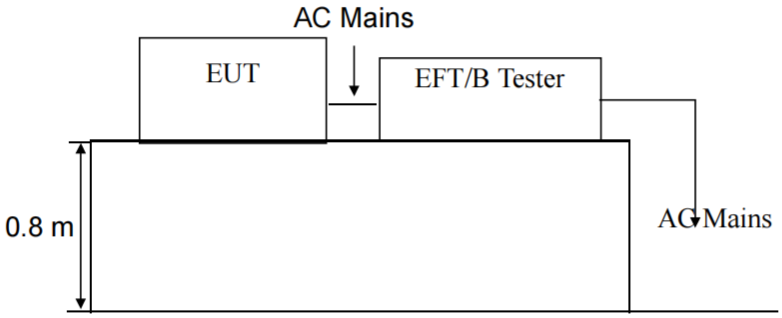
BST Testing (Shenzhen) Co.,Ltd.

Applicant :	Yixing Naier wind power technology Co., Ltd	Test Date :	Jun. 02, 2024
EUT :	Wind generator	Temperature :	22℃
M/N :	NE-50K	Humidity :	50 %
Power Supply :	AC 380V	Test Mode :	on
Frequency Range :	80 MHz to 1000 MHz, 1.4GHz-2.7GHz		
Modulation:	AM Pulse none 1 KHz 80%		
Criterion : A			

	Frequency Rang : 80-1000	
Steps	1%	1%
	Horizontal	Vertical
Front	Pass	Pass
Right	Pass	Pass
Rear	Pass	Pass
Left	Pass	Pass

9. ELECTRICAL FAST TRANSIENT/BURST TEST

9.1. EFT Test Setup



9.2. Test Standard

EN IEC 61000-6-1: 2019 (EN61000-4-4:2012)
Severity Level 2 at 1KV

9.3. Severity Levels and Performance Criterion

9.3.1. Severity level

Open Circuit Output Test Voltage ±10%		
Level	On Power Supply Lines	On I/O (Input/Output) Signal data and control lines
1.	0.5 KV	0.25 KV
2.	1 KV	0.5 KV
3.	2 KV	1 KV
4.	4 KV	2 KV
X	Special	Special

9.3.2. Performance criterion : B

9.4. EUT Configuration on Test

The configuration of EUT are listed in Section 3.2..

9.5. Operating Condition of EUT

Setup the EUT as shown in Section 11.1.. The operating condition of EUT are listed in section 3.3.

9.6. Test Procedure

The EUT is put on the table which is 0.8 meter high above the ground. This reference ground plane shall project beyond the EUT by at least 0.1m on all sides and the minimum distance between the EUT and all other conductive structure, except the ground plane beneath the EUT, shall be more than 0.5m.

9.6.1. For input and output AC power ports:

The EUT is connected to the power mains by using a coupling device which couples the EFT interference signal to AC power lines. Both polarities of the test voltage should be applied during compliance test and the duration of the test is 2 mins.

9.6.2. For signal lines and control lines

ports: It's unecessary to test.

9.6.3. For DC output line

ports: It's

unnecessary to test.

9.7. Test Results

PASS

Electrical Fast Transient/Burst Test Results

BST Testing (Shenzhen) Co.,Ltd.

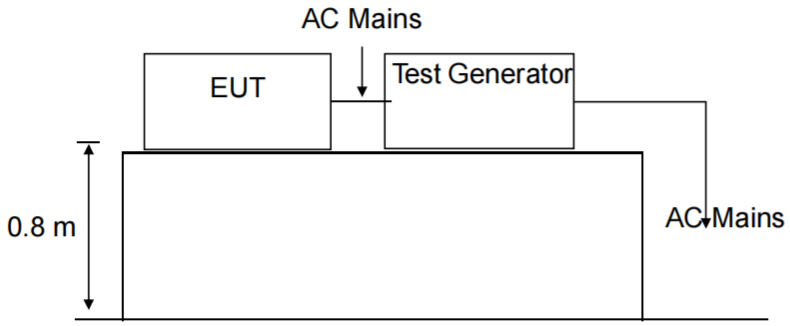
Applicant :	Yixing Naier wind power technology Co., Ltd	Test Date :	Jun. 02, 2024
EUT :	Wind generator	Temperature :	22℃
M/N :	NE-50K	Humidity :	50%
Power Supply :	AC 380V	Test Mode :	on

Inject Place : AC Mains

Inject Line	Voltage KV	Inject Time(s)	Inject Method	Results	Inject Line	Voltage KV	Inject Time(s)	Inject Method	Results
L	±1	120	Direct	Pass					
N	±1	120	Direct	Pass					
L N	±1	120	Direct	Pass					

10. SURGE TEST

10.1. Surge Test Setup



10.2. Test Standard

EN IEC 61000-6-1: 2019 (EN61000-4-5:2014/A1:2017)
Severity Level 2 for Line to Neutral at 1.0KV

10.3. Severity Levels and Performance Criterion

10.3.1. Severity level

Severity Level	Open-Circuit Test Voltage KV
1	0.5
2	1.0
3	2.0
4	4.0
*	Special

Performance criterion : **B**

10.4. EUT Configuration on Test

The configuration of EUT are listed in Section 3.2.

10.5. Operating Condition of EUT

10.5.1. Setup the EUT as shown in Section
10.5.2. Turn on the power of all equipments.
10.5.3. Let the EUT work in test mode (on) and test it.

10.6. Test Procedure

1) Setup the EUT and test generator as shown on Section 12.1.
2) For line to line coupling mode, provide a 0.5KV 1.2/50us voltage surge (at open-circuit condition) and 8/20us current surge to EUT selected points.
3) At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are conducted during test.
4) Different phase angles are done individually.
5) Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

10.7. Test Results

PASS

Surge Immunity Test Results

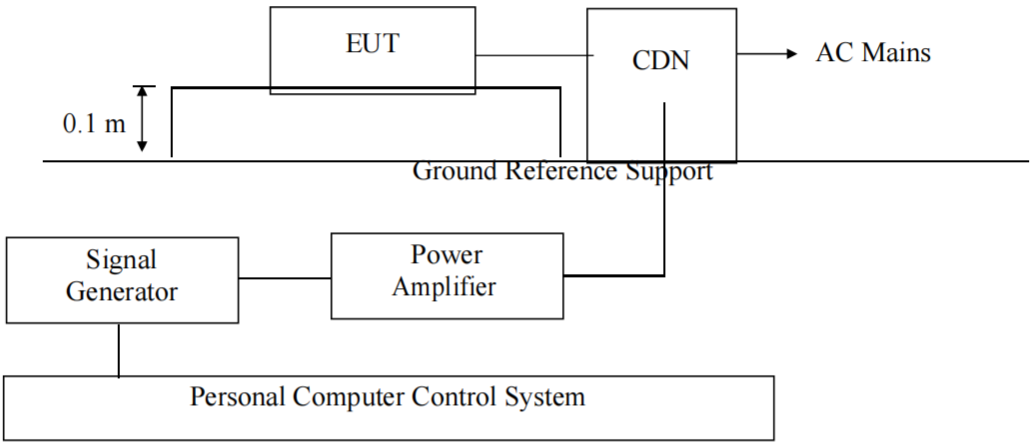
BST Testing (Shenzhen) Co.,Ltd.

Applicant :	Yixing Naier wind power technology Co., Ltd	Test Date :	Jun. 02, 2024
EUT :	Wind generator	Temperature :	22 ℃
M/N :	NE-50K	Humidity :	50 %
Power Supply :	AC 380V	Test Mode :	On

Location	Polarity	Phase Angle	No of Pulse	Pulse Voltage (KV)	Result
L-N	+	0	5	1.0	Pass
	+	90	5	1.0	Pass
	+	180	5	1.0	Pass
	+	270	5	1.0	Pass
	-	0	5	1.0	Pass
	-	90	5	1.0	Pass
	-	180	5	1.0	Pass
	-	270	5	1.0	Pass

11. INJECTED CURRENTS SUSCEPTIBILITY TEST

11.1. Block Diagram of Test AC Mains Setup



11.2. Test Standard

EN IEC 61000-6-1: 2019 (EN61000-4-6:2014/AC:2015)
Severity Level 2 at 3 V (rms), 0.15MHz ~ 80MHz

11.3. Severity Levels and Performance Criterion

11.3.1. Severity level

Level	Field Strength V/m
1.	1
2.	3
3.	10
X	Special

11.3.2. Performance criterion: A

11.4. EUT Configuration on Test

The configuration of EUT are listed in Section 3.2

11.5. Operating Condition of EUT

Setup the EUT as shown in Section 13.1.. The operating condition of EUT are listed in section 3.3

11.6. Test Procedure

1) Set up the EUT, CDN and test generators as shown on Section 13.1.
2) Let the EUT work in test mode and test it.
3) The EUT are placed on an insulating support 0.8m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50 mm (where possible).
4) The disturbance signal described below is injected to EUT through CDN.
5) The EUT operates within its operational mode(s) under intended climatic conditions after power on.
6) The frequency range is swept from 150KHz to 80MHz using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 1KHz sine wave.
7) The rate of sweep shall not exceed $1.5*10^{-3}$decades/s. Where the frequency is swept incrementally, the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.
8) Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

11.7. Test Results

PASS

Injected Currents Susceptibility Test Results

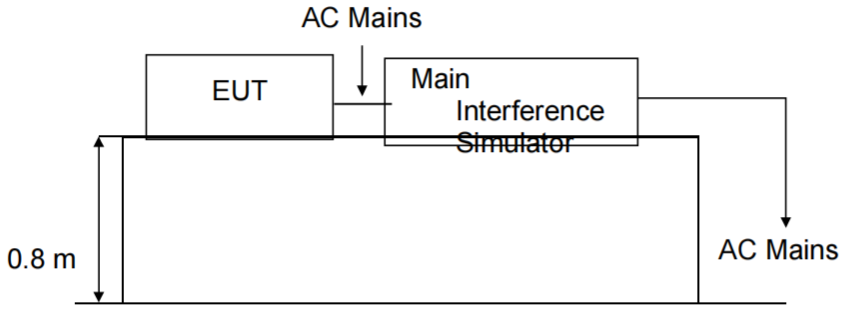
BST Testing (Shenzhen) Co.,Ltd.

Applicant	:	Yixing Naier wind power technology Co., Ltd	Test Date	:	Jun. 02, 2024
EUT	:	Wind generator	Temperature	:	22 ℃
M/N	:	NE-50K	Humidity	:	50 %
Power Supply	:	AC 380V	Test Mode	:	~~on~~

Frequency Range (MHz)	Injected Position	Strength	Criterion	Result
0.15 ~ 20	AC Line	3V(rms), Unmodulated	A	Pass
20 ~ 80	AC Line	3V(rms), Unmodulated	A	Pass

12. VOLTAGE DIPS AND INTERRUPTIONS TEST

12.1. Voltage Dips and Interruptions Test Setup



Remark: Combination wave generator and decoupling network are included in test generator.

12.2. Test Standard

EN IEC 61000-6-1: 2019 (EN61000-4-11:2020)

12.3. Severity Levels and Performance Criterion

12.3.1. Severity level

Test Level %UT	Voltage dip and short interruptions %UT	Duration (in period)
0	100	250p
40	60	5p
70	30	0.5p

12.3.2. Performance criterion : C & B

12.4. EUT Configuration on Test

The configuration of EUT are listed in Section 3.2.

12.5. Operating Condition of EUT

12.5.1. Setup the EUT as shown in Section 14.1. 14.5.2. Turn on the power of all equipments.

14.5.3. Let the EUT work in test mode (SPEAKERS Playing) and test it.

12.6. Test Procedure

1) Set up the EUT and test generator as shown on Section 14.1.
2) The interruptions is introduced at selected phase angles with specified duration.
3) Record any degradation of performance.

12.7. Test Result

PASS

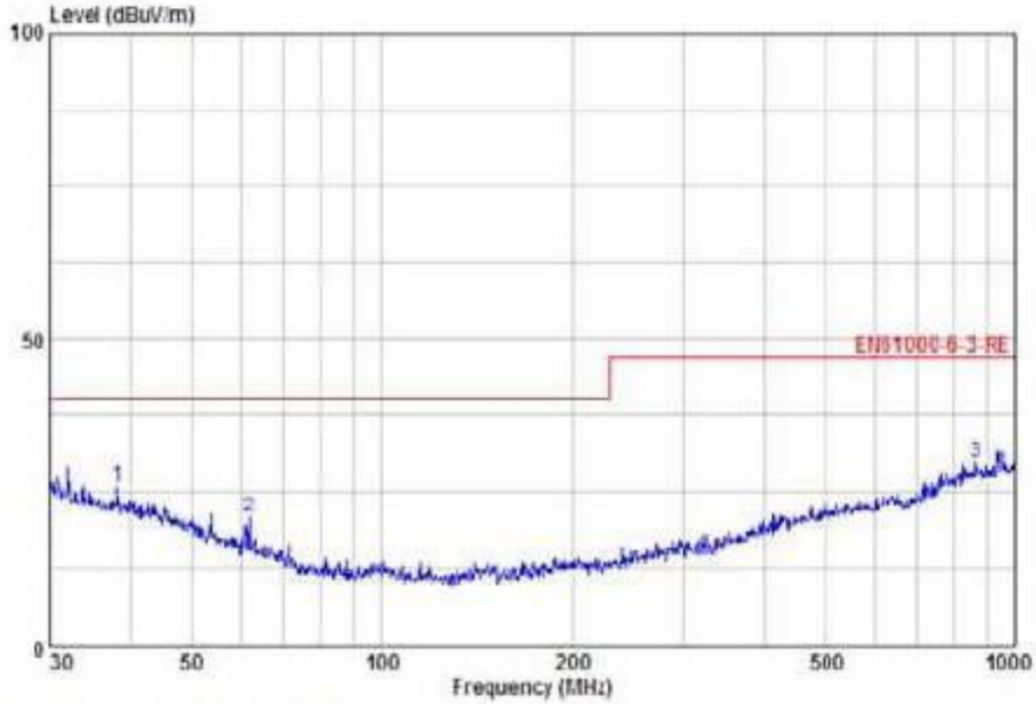
Voltage Dips And Interruptions Test Results

BST Testing (Shenzhen) Co.,Ltd.

Applicant :	Yixing Naier wind power technology Co., Ltd	Test Date :	Jun. 02, 2024
EUT :	Wind generator	Temperature :	22℃
M/N :	NE-50K	Humidity :	50%
Power Supply :	AC 380V	Test Mode :	on

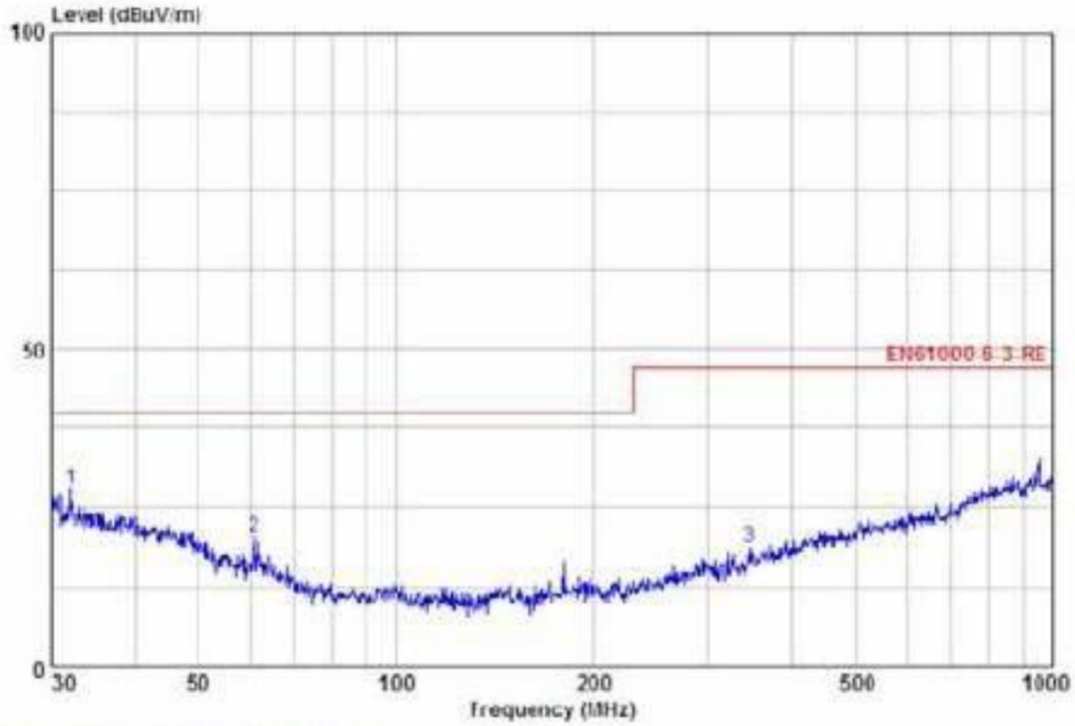
Test Level % U_T	Voltage Dips & Short Interruptions % U_T	Duration (in period)	Phase Angle	Criterion	Result
0	100	250 P	0°~360°	C	Pass
40	60	5P	0°~360°	C	Pass
70	30	0.5P	0°~360°	B	Pass

APPENDIX I



Condition : EN61000-6-3-RE 3m VERTICAL
: RBW:120.000KHz VBW:300.000KHz SWT:Auto

	Freq	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB		
1 max	38.21	25.81	40.00	-14.19	Peak	VERTICAL
2	61.79	20.85	40.00	-19.15	Peak	VERTICAL
3	863.06	29.71	47.00	-17.29	Peak	VERTICAL



Condition : EN61000-6-3-RE 3m HORIZONTAL
: RBW:120.000KHz VBW:300.000KHz SWT:Auto

	Freq	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB		
1	31.95	27.94	40.00	-12.06	Peak	HORIZONTAL
2	60.92	20.28	40.00	-19.72	Peak	HORIZONTAL
3	344.39	18.58	47.00	-28.42	Peak	HORIZONTAL

APPENDIX II

A.2 Photo documentation

Photos General Appearance of the EUT



******END OF REPORT******