

EMC TEST REPORT

Report No.: SET2015-17458

Product: SOLAR OFF-GRID INVERTER

Model No: GF3000, GF5000, GF6000, GF8000

Applicant: EAST Group Co., Ltd.

Address: No 6 Northern Industry Road, Songshan Lake SCI&TECH
Industry Park, DongGuan, P.R.China

Issued by: CCIC Southern Electronic Product Testing (Shenzhen)CO., Ltd.

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Report

Product.....: SOLAR OFF-GRID INVERTER

Model No.: GF3000, GF5000, GF6000, GF8000

Brand Name.....: ----

Applicant.....: EAST Group Co., Ltd.

Applicant Address.....: No 6 Northern Industry Road, Songshan Lake
SCI&TECH Industry Park,DongGuan,P.R.China

Manufacturer.....: EAST Group Co., Ltd.

Manufacturer Address.....: No 6 Northern Industry Road, Songshan Lake
SCI&TECH Industry Park,DongGuan,P.R.China

Test Standards.....: **EN 61000-6-2:2005** Electromagnetic compatibility (EMC)
-- Part 6-2: Generic standards - Immunity for industrial environments
EN 61000-6-4:2007+A1:2011 Electromagnetic compatibility (EMC) -- Part 6-4: Generic standards - Emission standard for industrial environments
EN61000-3-3:2008 Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection

Test Result.....: Pass

Tested by:

Chen Weichang Dec. 01, 2015

Signature, Date

Reviewed by.....:

Zhu Qi Dec. 01, 2015

Signature, Date

Approved by.....:

Wu Lian Dec. 01, 2015

Signature, Date

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1 General Information

1.1 Description of EUT

Product: SOLAR OFF-GRID INVERTER

Model No.: GF3000, GF8000

Brand Name: ----

Serial No.: /

GF8000:

DC Input: PV - voltage range: DC192-400 d.c. V

PV current: 80 d.c. A max

DC input: 192 d.c.V

AC Input: 175-280 a.c.V

AC Output: 230 a.c.V,50/60Hz

AC Current: 34.8 a.c. A ,Max. AC current: 63.5 a.c.A

Power :8000W.

GF6000:

DC Input: PV - voltage range: DC192-400 d.c.V

PV current: 80d.c.A max

DC input: 192 d.c.V

AC Input: 175-280 a.c.V

AC Output: 230 a.c.V,50/60Hz

AC Current: 26 a.c. A, Max. AC current: 47.6 a.c.A

Power :6000W.

Rating:

GF5000:

DC Input: PV - voltage range: DC192-400 d.c.V

PV current: 80d.c.A max,

DC input: 192 d.c.V

AC Input: 175-280 a.c.V

AC Output: 230 a.c.V,50/60Hz

AC Current: 21.7 a.c. A , Max. AC current: 39.7 a.c.A

Power :5000W.

GF3000:

DC Input: PV - voltage range: DC192-400d.c.V

PV current: 60d.c.A max

DC input: 192 d.c.V

AC Input: 175-280 a.c.V

AC Output: 230 a.c.V,50/60Hz

AC Current: 13 a.c. A, Max. AC current: 23.8 a.c.A

Power :3000W.

Accessories: /

NOTE:

1. For more detailed features description about the EUT, please refer to User's Manual.

2. Model GF3000, GF5000, GF6000, GF8000 are a series of solar off-grid inverter which converts direct current generated from the PV array field and batteries to alternating current, and it is intended to be connected in parallel with the mains to charge batteries to supply common load. It is intended for professional incorporation into PV system, and it is assessed on a component test basis. Models listed above differ only on their electrical rating, transformer and power component. All tests were performed on Model GF8000. Mains terminal disturbance voltage and Radiated disturbance were performed on the model GF3000.

1.2 Objective

Perform ElectroMagnetic Interference (EMI) and ElectroMagnetic Susceptibility (EMS) tests for CE Marking.

2 Test Facilities and Configuration

2.1 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35°C
- Humidity: 30-60 %
- Atmospheric pressure: 86-106 kPa

2.2 Measurement Uncertainty

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in Measurement” (GUM) published by ISO.

- Uncertainty of Conducted Emission, $U_c = \pm 3.6\text{dB}$
- Uncertainty of Radiated Emission, $U_c = \pm 4.7\text{dB}$

2.3 Test Standards and Results

The EUT has been tested according to the following specifications:

EMISSION		
Standard	Test Type	Result
EN 61000-6-4:2007+A1:2011	Mains terminal disturbance voltage	PASS
	Radiated disturbance	PASS
EN61000-3-3: 2008	Voltage fluctuation & flicker	PASS
IMMUNITY (EN61000-6-2:2005)		
Basic Standard	Test Type	Result
IEC 61000-4-2	Electrostatic discharge immunity	PASS
IEC 61000-4-3	Radiated, radio frequency electromagnetic field immunity	PASS
IEC 61000-4-4	Electrical fast transient/burst immunity	PASS
IEC 61000-4-5	Surge immunity	PASS
IEC 61000-4-6	Immunity to conducted disturbances induced by RF fields	PASS
IEC 61000-4-8	Power frequency magnetic field immunity	PASS
IEC 61000-4-11	Voltage dips and short interruptions immunity	PASS

NOTE: The latest versions of basic standards are applied.

2.4 List of Equipments Used

Description	Manufacturer	Model No.	Calibration Due Date	Serial No.
Test Receiver	ROHDE&SCHWARZ	ESCS30	Jun.10, 2016	A0304260
Test Receiver	ROHDE&SCHWARZ	ESIB26	Jun.10, 2016	A0304218
LISN	SCHWARZBECK	ESH2-Z5	Jun.10, 2016	A0304221
Broadband Ant.	ROHDE&SCHWARZ	HL562	Jun.10, 2016	A0304262
Antenna	Amplifier Research	AR AT1080	Jun.10, 2016	A0304249
Antenna	Amplifier Research	AT4002A	Jun.10, 2016	A0304250
ESD Test System	EM TEST	ESD30C	Jul.03, 2016	A0712513
EFT Test System	EVERFINE	EMS61000-4A	Feb.19, 2016	YY106898N 1010005
Surge Test System	EM TEST	VCS500M10	Jun.10, 2016	A0712509
Signal Generator	ROHDE&SCHWARZ	SML01	Jun.10, 2016	A0502382
Signal Generator	ROHDE&SCHWARZ	SMR27	Jun.10, 2016	A0304219
Power Amplifier	Amplifier Research	150W1000	/	A0304247
Power Amplifier	Amplifier Research	25S1g4AM1	/	A0304248
Signal Generator	ROHDE&SCHWARZ	SML01	Jun.10, 2016	1090.3000.11
Power Amplifier	Amplifier Research	75A250AM	/	A0304255
CDN	ROHDE&SCHWARZ	M3	/	A0304258
Anechoic Chamber	Albatross	EMC 12.8*6.8*6.4(m)	Mar.09, 2016	A0802520
Magnetic Field Tester	HAEFELY	MAG 100.1	Jun.10, 2016	A0103109
Power Quality Analyzer	Fluke	F435	Jun.10, 2016	--
Power Frequency Test System	CI	15003iX-400-CT S	Aug.10, 2016	A0801521

NOTE: Equipments above have been calibrated and are in the period of validation.

3 Emission Test

3.1 EUT Setup and Operating Conditions

The EUT was powered by 230V 50Hz AC mains and continuously operated.

Environment Condition:

Temperature: 23°C; Relative Humidity: 56%; Pressure:101kPa

Test Date: 2012-12-25

Test Engineer: Zeng Wenying

Test Site: EMC Lab

3.2 Mains Terminal Disturbance Voltage Measurement

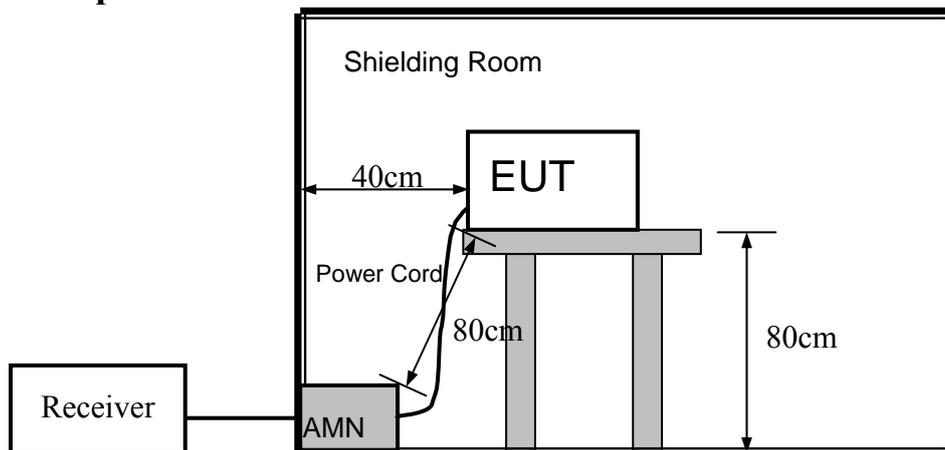
3.2.1 Limits of Mains Terminal Disturbance Voltage

Frequency range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	79	66
0.5 - 30	73	60

NOTE:

1. The lower limit shall apply at the transition frequencies.

3.2.2 Test Setup



3.2.3 Test Result

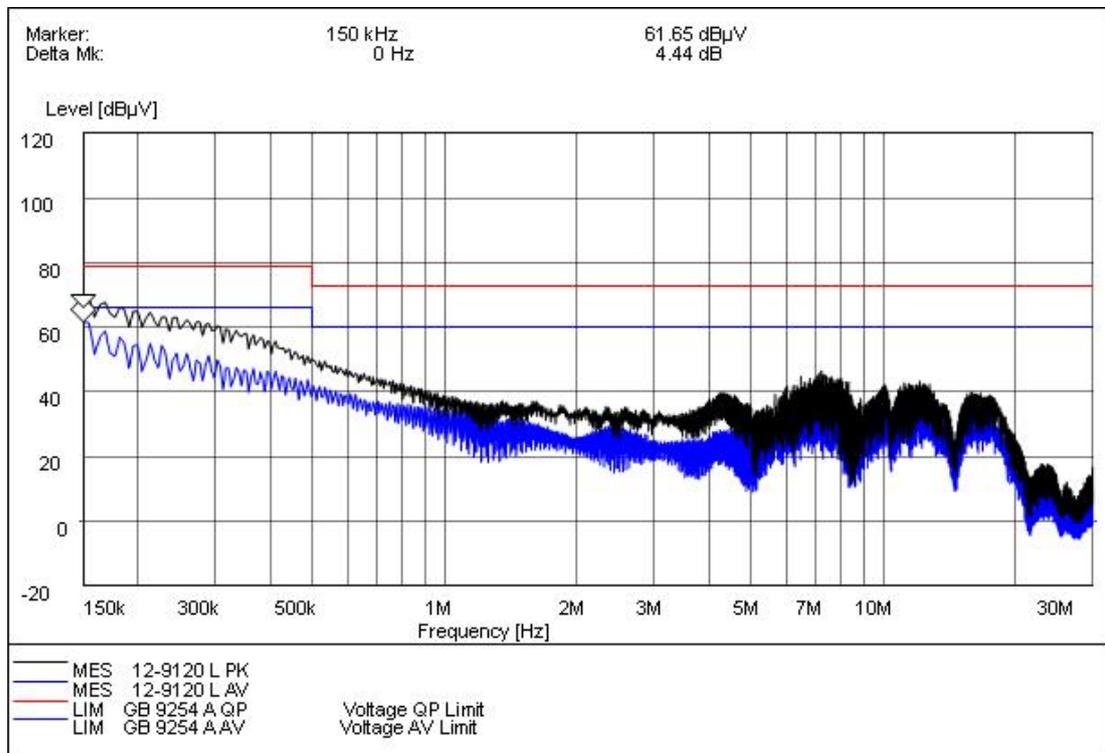
No.	Freq. (MHz)	Limit Value (dB μ V)		Emission Level (dB μ V)	
		QP	AV	QP	AV
GF3000					
1	0.1500	79	66	67.00	61.50
2	0.1680	79	66	66.20	59.70
3	5.0000	73	60	45.90	NOTE(2)
4	7.2185	73	60	46.30	NOTE(2)
GF8000					
1	0.1545	79	66	61.20	NOTE(2)
2	0.1680	79	66	62.60	NOTE(2)
3	0.1815	79	66	60.80	NOTE(2)
4	8.4110	73	60	59.70	NOTE(2)
5	10.0580	73	60	55.40	NOTE(2)

NOTE:

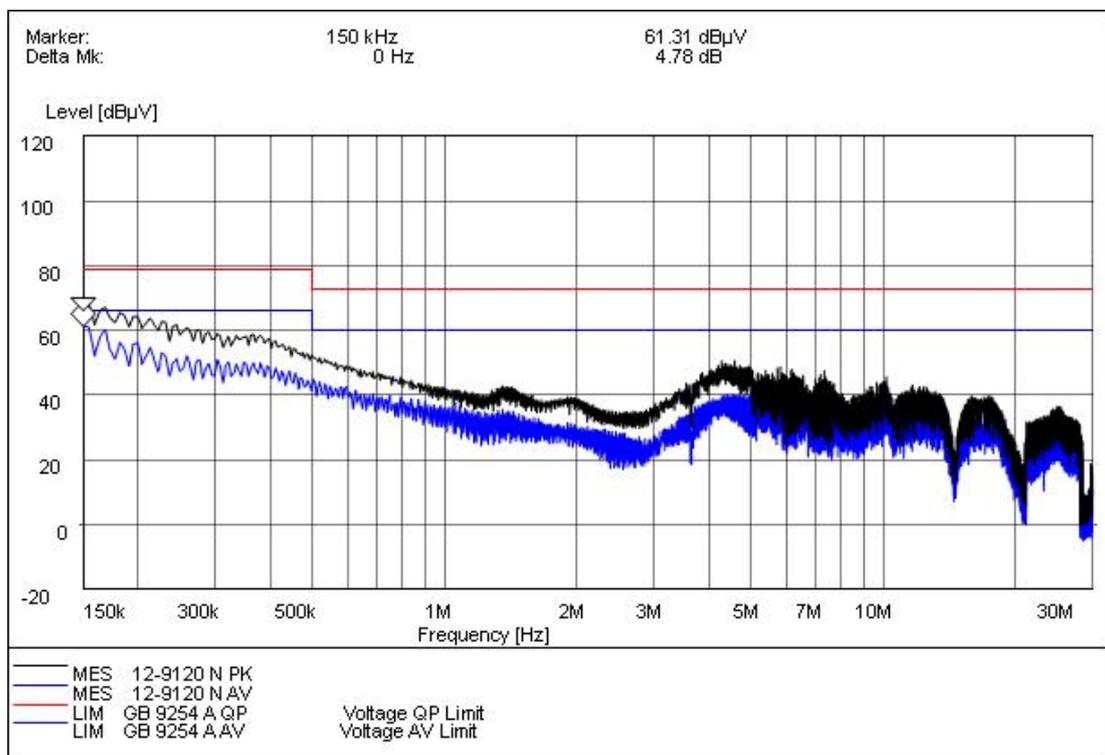
1. QP and AV are abbreviations of the quasi-peak and average individually.
2. If the emission levels measured with QP detector are lower than AV limits, there is unnecessary to measure with AV detector.
3. The emission levels recorded above is the larger ones of each phase.

Measurement Plots of GF3000

Test Curve : Mains terminal disturbance voltage, L phase

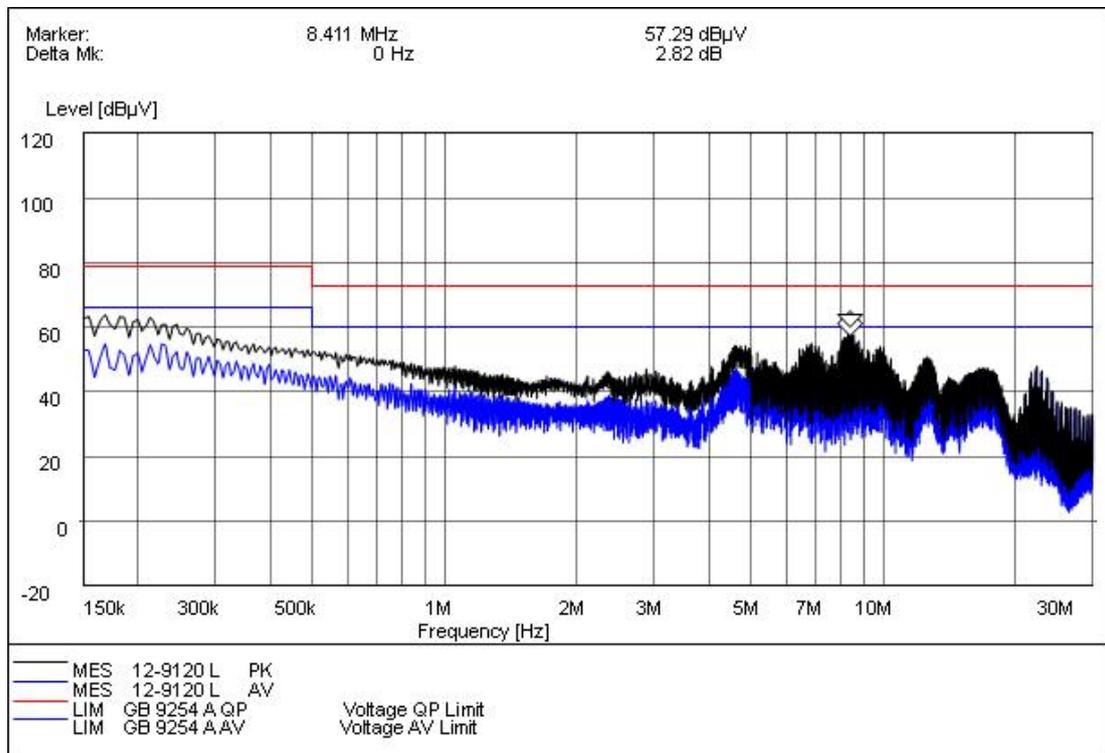


Mains terminal disturbance voltage, N phase

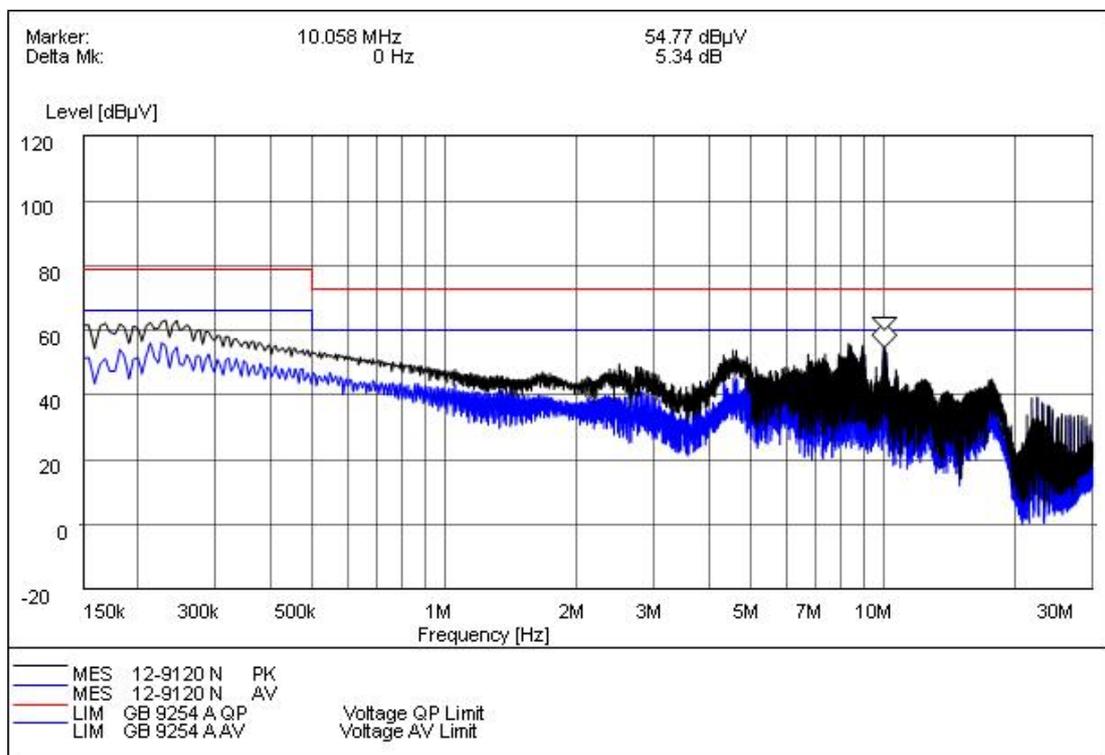


Measurement Plots of GF8000

Test Curve : Mains terminal disturbance voltage, L phase



Mains terminal disturbance voltage, N phase



3.3 Radiated Disturbance Measurement

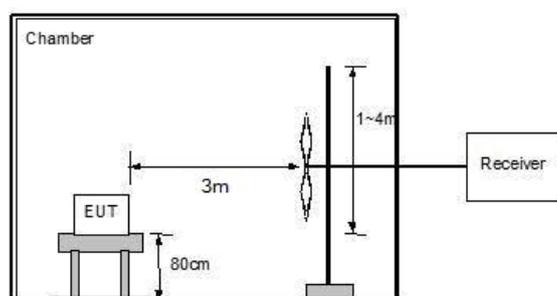
3.3.1 Limits of Radiated Disturbance

Frequency range (MHz)	Quasi peak limits(dB μ V/m), at 3m measurement distance
30 – 230	50
230 - 1000	57

Notes:

- (1) The lower limit shall apply at the transition frequency.
- (2) Additional provisions may be required for cases where interference occurs.

3.3.2 Test Setup



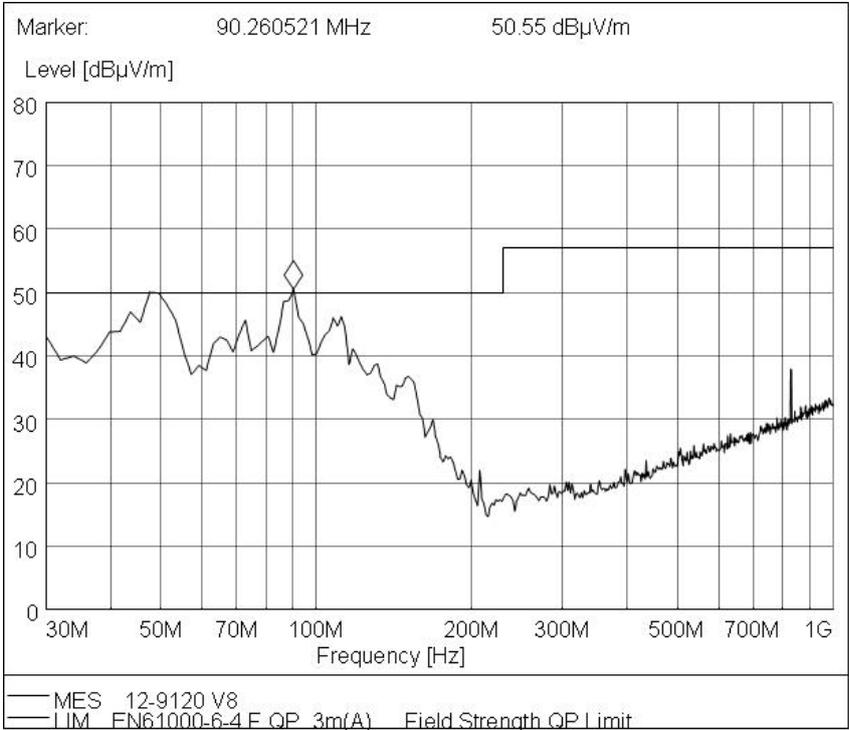
3.3.3 Test Result

No.	Frequency (MHz)	Antenna Polarization	Antenna Height (cm)	Table Angle (Degree)	QP Limits (dB μ V/m)	Emission Level (dB μ V/m)
GF3000						
1	90.61	H	200	0	50	45.20
2	48.91	V	100	20	50	43.76
3	89.77	V	100	100	50	43.13
4	112.57	V	100	60	50	40.36
5	230 - 1000	H/V	100~400	0~360	57	< 40
GF8000						
1	30 - 230	H	100~400	0~360	50	< 40
2	31.52	V	100	0	50	43.55
3	43.99	V	100	0	50	39.11
4	85.91	V	100	0	50	35.60
5	230 - 1000	H/V	100~400	0~360	57	< 40

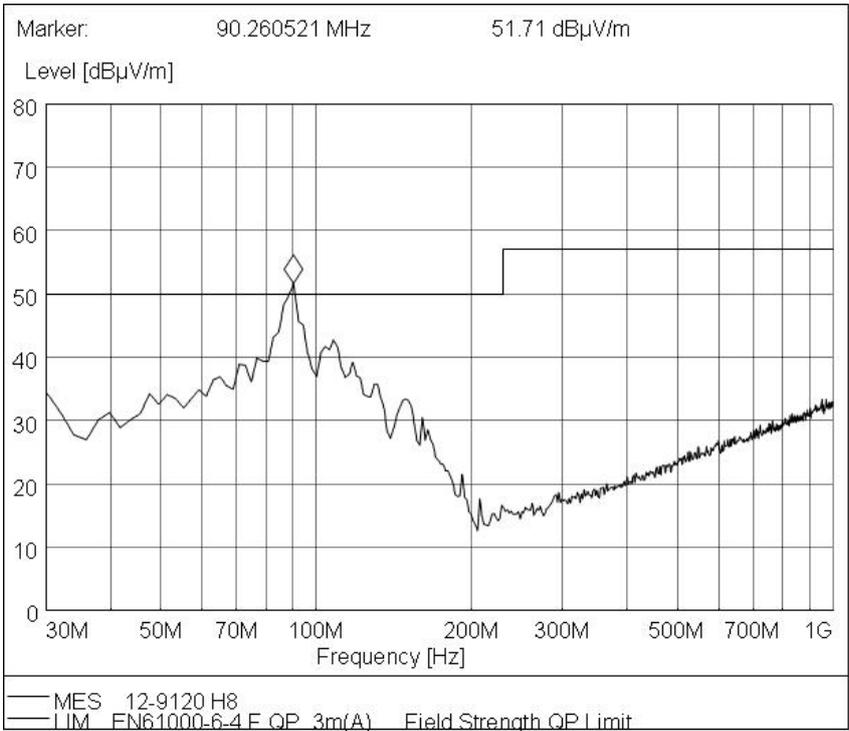
Measurement Plots of GF3000

Test Curve

1. Electromagnetic radiation disturbances, max peak detector, antenna polarization: Vertical



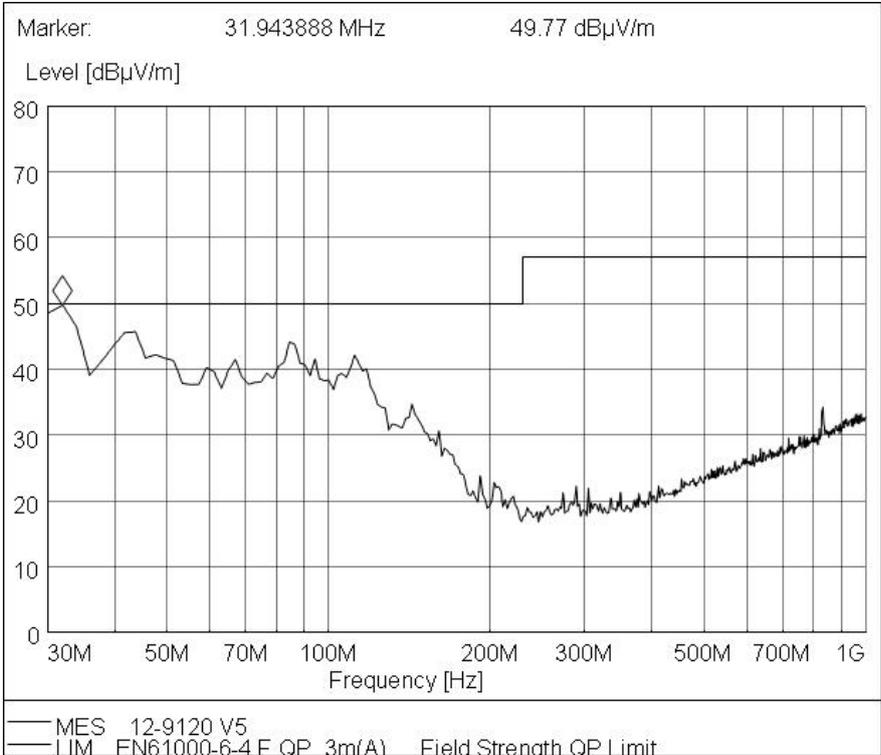
2. Electromagnetic radiation disturbances, max peak detector, antenna polarization: Horizontal



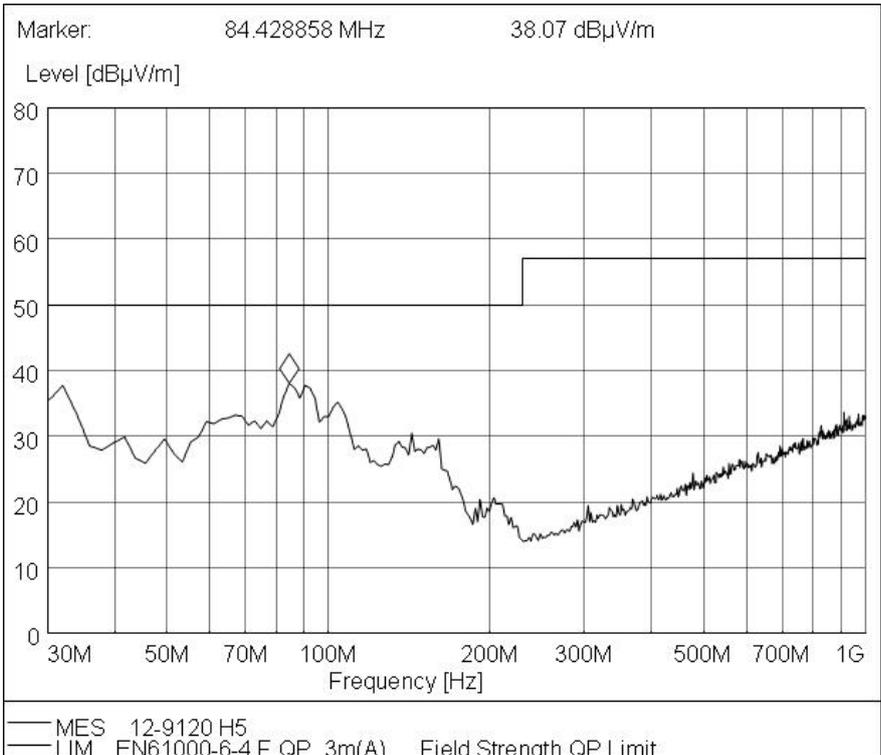
Measurement Plots of GF8000

Test Curve

1. Electromagnetic radiation disturbances, max peak detector, antenna polarization: Vertical



2. Electromagnetic radiation disturbances, max peak detector, antenna polarization: Horizontal



3.4 Voltage Fluctuation and Flick Measurement

3.4.1 Limits of Voltage Fluctuation and Flick

Test Item	Limit	Note
P_{st}	1.0	P_{st} means Short-term flicker indicator
P_{lt}	0.65	P_{lt} means long-term flicker indicator
T_{dt}	500mS	T_{dt} means maximum time that d_t exceeds 3%
$d_{max}(\%)$	4%	d_{max} means maximum relative voltage change.
$d_c(\%)$	3.3%	d_c means relative steady-state voltage change.

3.4.2 Test Procedure

- The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the most unfavorable sequence of voltage changes under normal conditions
- During the flick measurement, the measure time shall include that part of whole operation changes. The observation period for short-term flicker indicator is 10 minutes and the observation period for long-term flicker indicator is 2 hours.

3.4.3 Test Result

Test Specification

Test Frequency:	50Hz	Test Voltage:	230Vac
Waveform:	Sine	Test Time:	10 minutes(P_{st}); 2 hours (P_{lt})

Test Result

Test Parameter	Measurement Value	Limit	Remarks
P_{st}	0.064	1.0	Pass
P_{lt}	0.028	0.65	Pass
$T_{dt(s)}$	0.0	500mS	Pass
$d_{max}(\%)$	0.00%	4%	Pass
$d_c(\%)$	0.00%	3.3%	Pass

4 Immunity Test

4.1 EUT Setup and Operating Conditions

The EUT was powered by 230V 50Hz AC mains and continuously operated.

Environment Condition:

Temperature: 23°C; Relative Humidity: 55%; Pressure: 101kPa

Test Date: 2013-1-4~2013-1-12

Test Engineer: Li Xiaojun

Test Site: EMC Lab

4.2 Performance Criteria

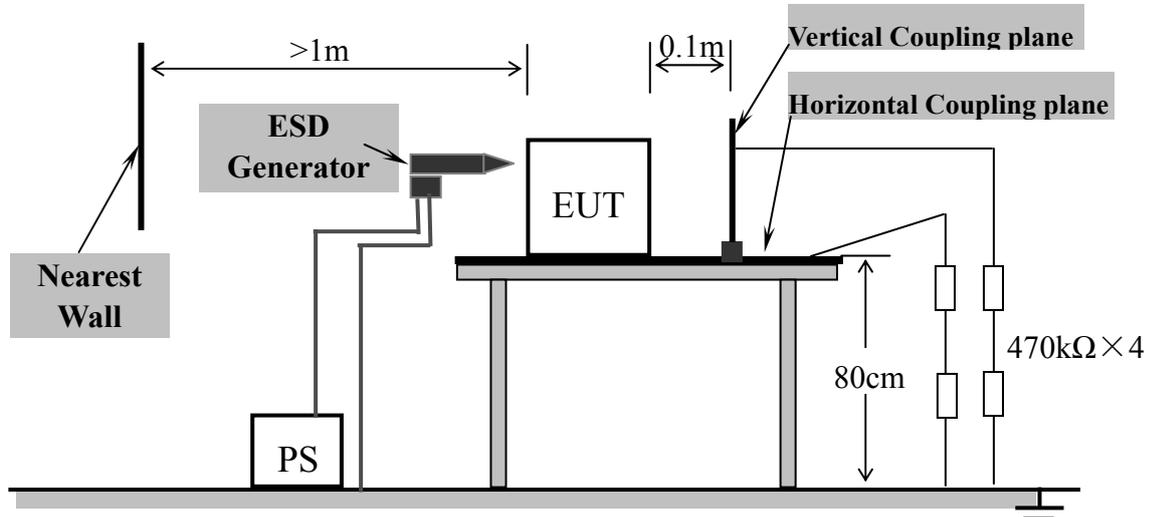
Criterion A	The apparatus shall continue to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended.
Criterion B	The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended.
Criterion C	Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls.

4.3 Electrostatic Discharge Immunity Test

4.3.1 Test Specification

Basic Standard:	IEC 61000-4-2
Discharge Impedance	330 Ω / 150 pF
Discharge Voltage:	Air Discharge : 8 kV Contact Discharge : 4kV
Polarity:	Positive / Negative
Number of Discharge:	Minimum 20 times at each test point
Discharge Mode:	Single discharge
Discharge Period:	1-second minimum
Criterion:	B

4.3.2 Test Setup



For the actual test configuration, please refer to Appendix II: Photographs of the Test Configuration.

4.3.3 Test Result

Test Points	Discharge Level (kV)	Discharge Mode	Observation	Comply with Criterion
Aperture of the cover	±8	Air	Note(1)	A
Screen	±8	Air	Note(1)	A
Button	±8	Air	Note(1)	A
Metallic shell of connectors	±4	Contact	Note(1)	A
HCP	±4	Contact	Note(1)	A
VCP	±4	Contact	Note(1)	A

NOTE:

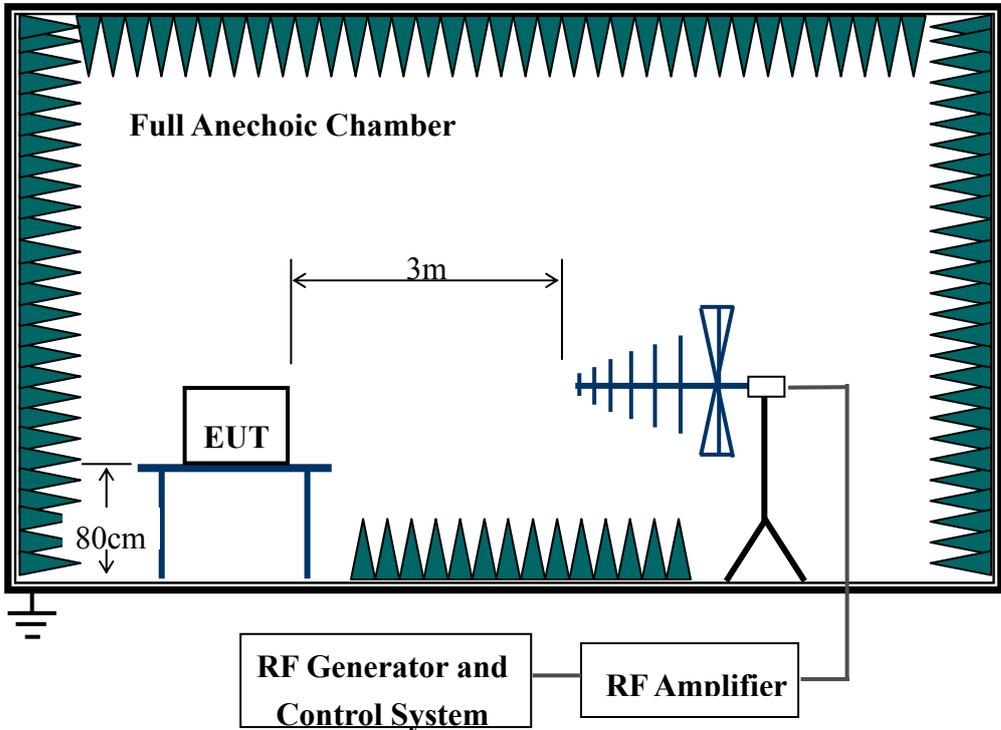
(1). The EUT continued to operate as intended. No degradation of performance was observed.

4.4 Radiated, Radio Frequency Electromagnetic Field Immunity Test

4.4.1 Test Specification

Basic Standard:	IEC 61000-4-3		
Frequency Range:	80 MHz – 1000MHz	1.4GHz – 2.0GHz	2.0GHz – 2.7GHz
Field Strength:	10V/m	3V/m	1V/m
Modulation:	1kHz sine wave, 80%, AM modulation		
Frequency Step:	1% of fundamental		
Polarity of Antenna	Horizontal and Vertical		
Test Distance:	3m		
Antenna Height:	1.5m		
Dwell Time:	3 seconds		
Criterion:	A		

4.4.2 Test Setup



4.4.3 Test Result

Frequency	Polarity	Azimuth	Field Strength (V/m)	Observation	Comply with Criterion
80-1000 MHz	V&H	0,90,180, 270	10	Note(1)	A
1.4-2.0GHz	V&H	0,90,180, 270	3	Note(1)	A
2.0-2.7GHz	V&H	0,90,180, 270	1	Note(1)	A

NOTE:

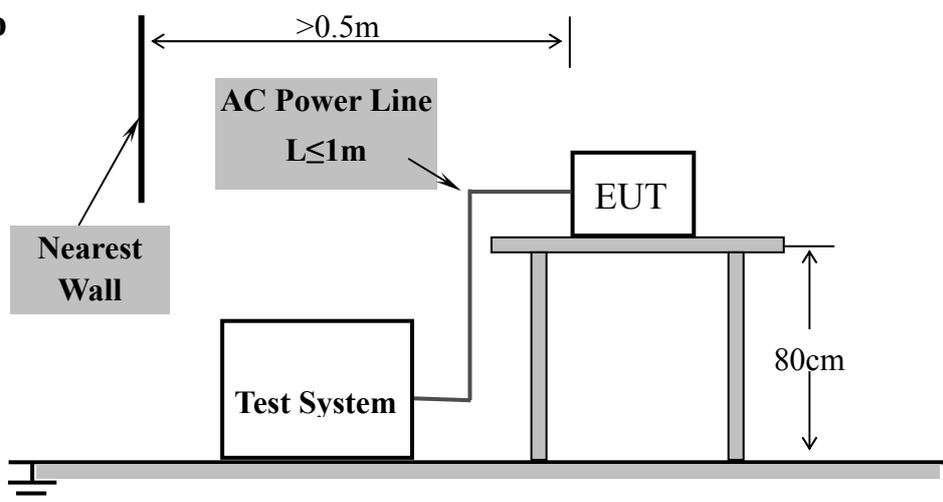
(1). The EUT continued to operate as intended. No degradation of performance was observed.

4.5 Electrical Fast Transient/Burst Immunity Test

4.5.1 Test Specification

Basic Standard:	IEC 61000-4-4
Test Voltage:	AC. power port:2 kV
Polarity:	Positive/Negative
Impulse Frequency:	5kHz
Impulse wave shape:	5/50ns
Burst Duration:	15ms
Burst Period:	300ms
Test Duration:	Not less than 1 min.
Criterion:	B

4.5.2 Test Setup



4.5.3 Test Result

Test Point	Polarity	Test Level (kV)	Observation	Comply with Criterion
AC Power Port	+/-	2	Note (1)	B

NOTE:

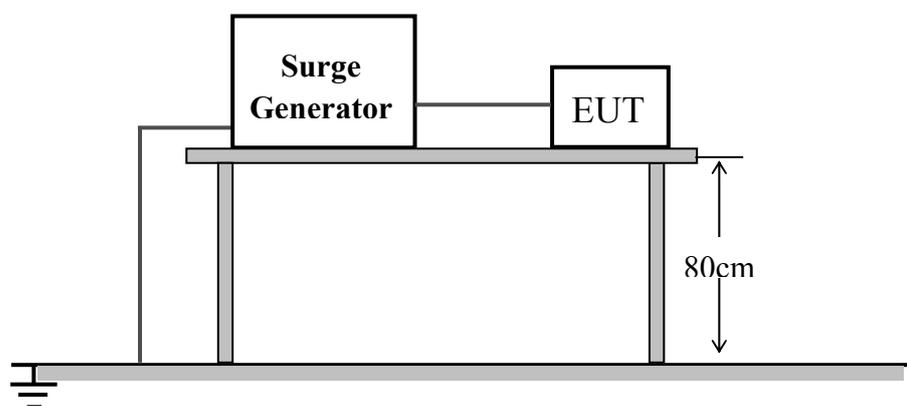
(1). The EUT continued to operate as intended. No degradation of performance was observed.

4.6 Surge Immunity Test

4.6.1 Test Specification

Basic Standard:	IEC 61000-4-5
Waveform:	Voltage 1.2/50 μ s; Current 8/20 μ s
Test Voltage:	a.c. power port, line to line 1 kV, line to earth 2kV
Polarity:	Positive/Negative
Phase Angle:	0° , 90° , 180° , 270°
Repetition Rate:	60sec
Times:	5 time/each condition.
Criterion:	B

4.6.2 Test Setup



4.6.3 Test Result

Coupling Line	Polarity	Voltage (kV)	Observation	Comply with Criterion
AC power, Line-Line	+/-	1	Note (1)	B
AC power, Line-Earth	+/-	2	Note (1)	B

NOTE:

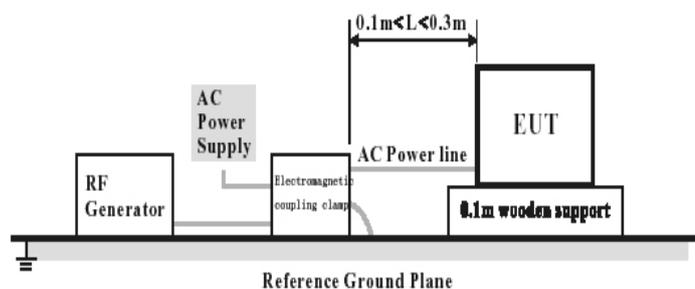
(1). The EUT continued to operate as intended. No degradation of performance was observed.

4.7 Immunity to Conducted Disturbances Induced by RF Fields

4.7.1 Test Specification

Basic Standard:	IEC 61000-4-6
Frequency Range:	0.15 MHz – 80 MHz
Field Strength:	10V
Modulation:	1 kHz Sine Wave, 80%, AM Modulation
Frequency Step:	1% of fundamental
Coupled Cable:	AC. power line
Coupling Device:	Electromagnetic coupling clamp
Criterion:	A

4.7.2 Test Setup



4.7.3 Test Result

Test Point	Frequency	Field Strength (Vrms)	Observation	Comply with criterion
AC. power line	0.15 – 80 MHz	10	Note(1)	A

NOTE:

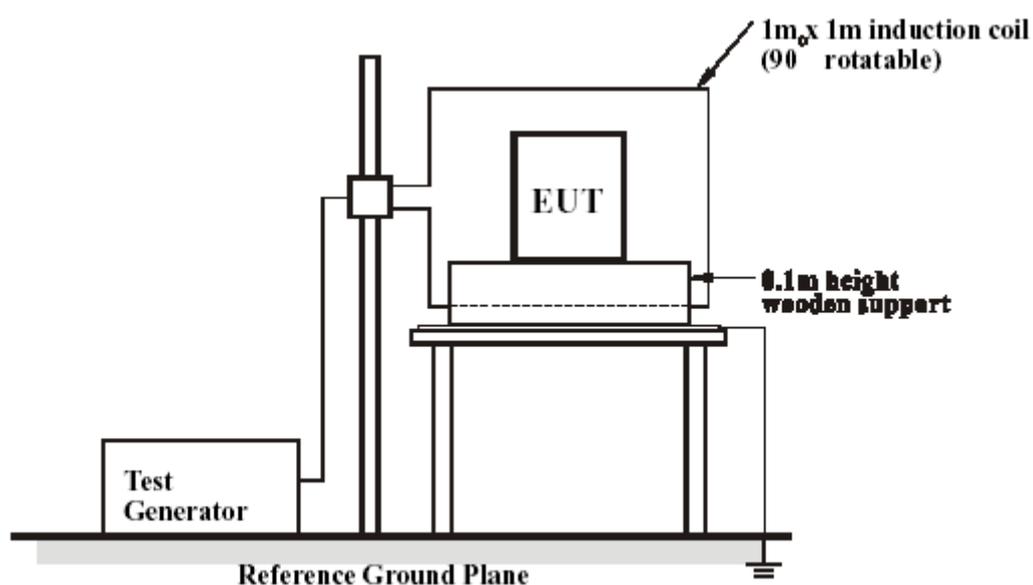
(1). The EUT continued to operate as intended. No degradation of performance was observed.

4.8 Power Frequency Magnetic Field Immunity Test

4.8.1 Test Specification

Basic Standard:	IEC 61000-4-8
Frequency Range:	50Hz
Field Strength:	30A/m
Observation Time:	2 minute
Inductance Coil:	Rectangular type, 1m × 1m

4.8.2 Test Setup



4.8.3 Test Result

Direction	Field Strength(A/m)	Observation	Comply with Criterion
X	30	Note(1)	A
Y	30	Note(1)	A
Z	30	Note(1)	A

NOTE:

(1). The EUT continued to operate as intended. No degradation of performance was observed

4.9 Voltage Dips and Short Interruptions Immunity Test

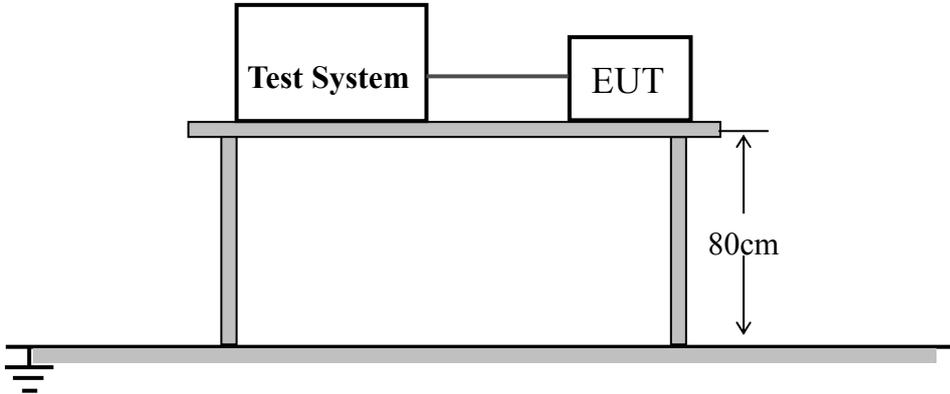
4.9.1 Test Specification

Basic Standard:	IEC 61000-4-11
Voltage Dips:	100% reduction, 0.5 period 60% reduction, 10 periods 30% reduction, 25 periods
Voltage Interruptions:	100% reduction, 250 periods
Voltage Phase Angle:	0°

4.9.2 Test Procedure

- The power cord was used as supplied by the manufacturer. The EUT was connected to the line output of the Voltage Dips and Interruption Generator.
- The EUT was tested for (I) 100% voltage dip of supplied voltage with duration of 10ms, (II)60% voltage dip of supplied voltage and duration 200ms, (III)30% voltage dip of supplied voltage and duration 500ms.
- 100% voltage interruption of supplied voltage with duration of 5000ms was followed, which was a sequence of three voltage interruptions with intervals of 10 seconds.
- Voltage reductions occur at 0 degree crossover point of the voltage waveform. The performance of the EUT was checked after the voltage dip or interruption.

4.9.3 Test Setup



For the actual test configuration, please refer to Appendix II: Photographs of the Test Configuration.

4.9.4 Test Result

Test Mode	Voltage Reduction	Duration (ms)	Times	Interval (Sec)	Observation	Comply with Criterion
Voltage dips	100%	10	3	10	Note (1)	B
	60%	200	3	10	Note (2)	C
	30%	500	3	10	Note (2)	C
Voltage interruptions	100%	5000	3	10	Note (3)	C

Note:

- (1). The EUT continued to operate as intended. No degradation of performance was observed.
- (2). The output voltage shift of the EUT was larger than 10% during the voltage dips test. After the test, the EUT output restored automatically.
- (3). The voltage output of the EUT became zero during the voltage interruption test. After the test, the EUT output restored automatically.

Appendix I: Photographs of the EUT

1. Appearance



Front view



Back view

2, Inside



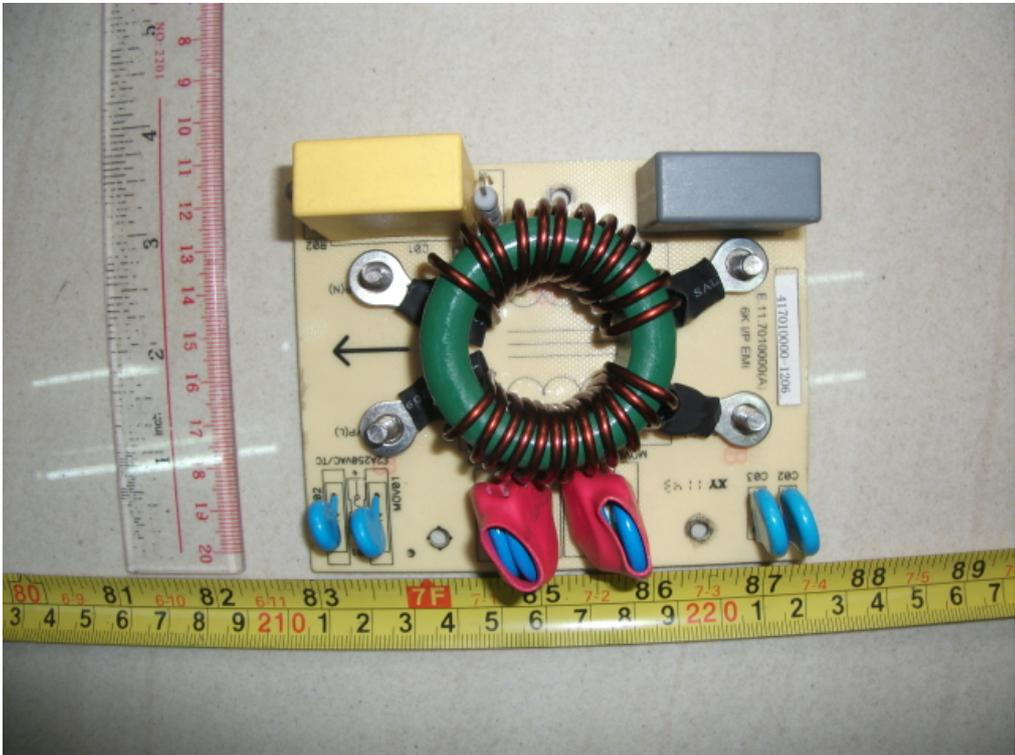
Inside instruction



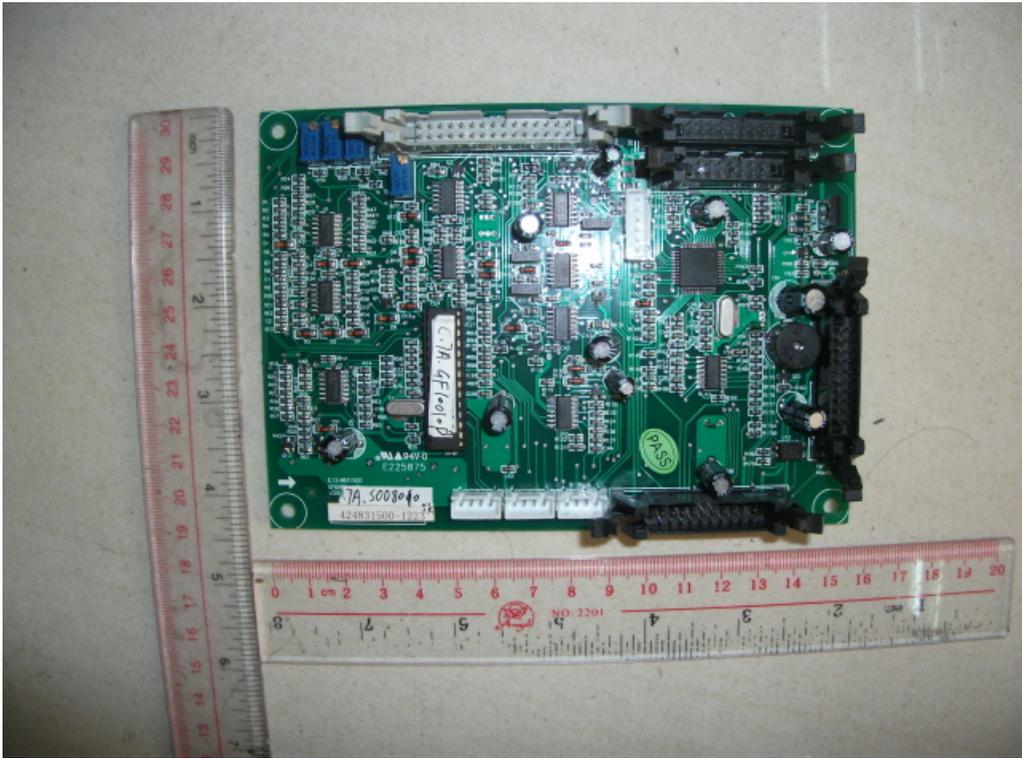
Inside instruction



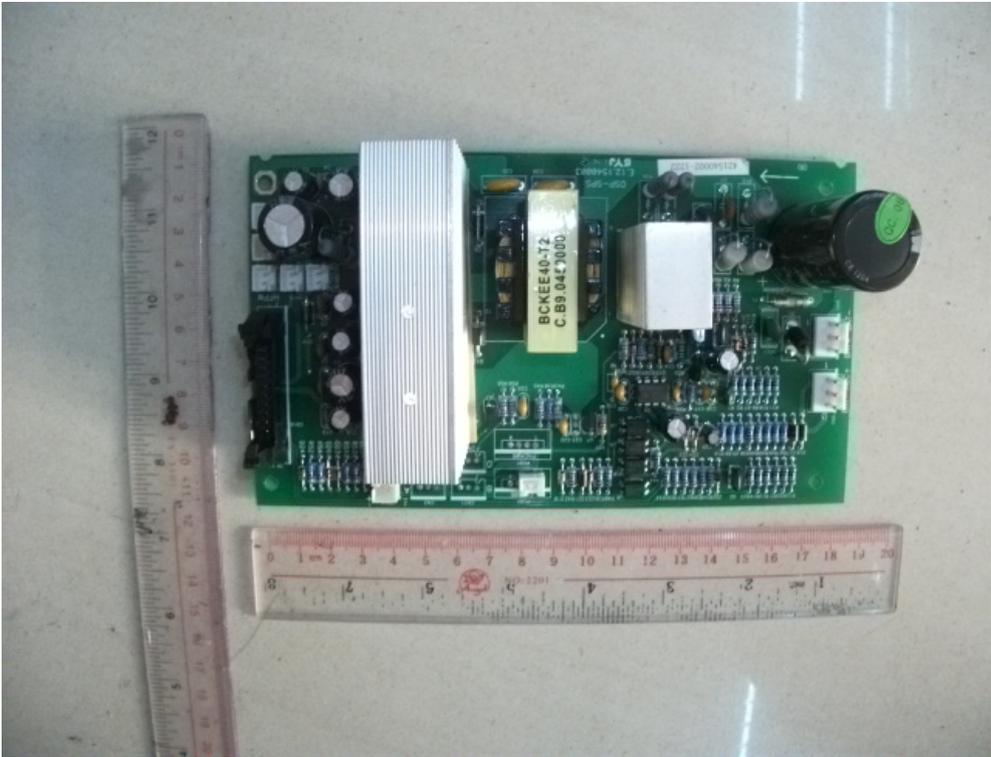
RS232 board



EMC board



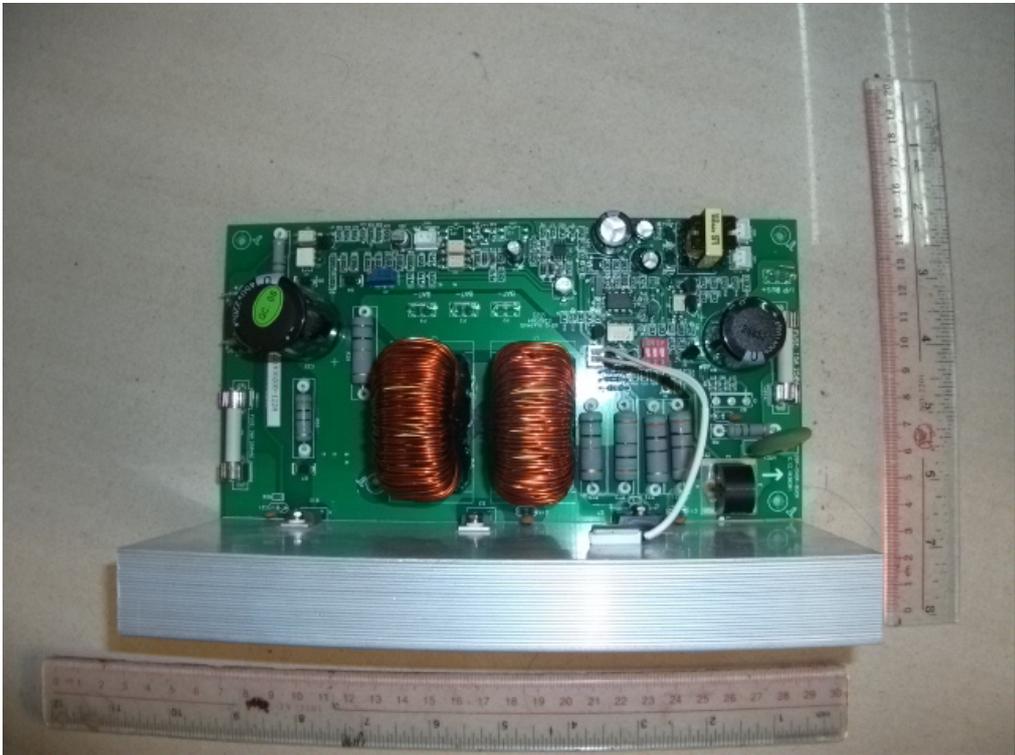
Control board



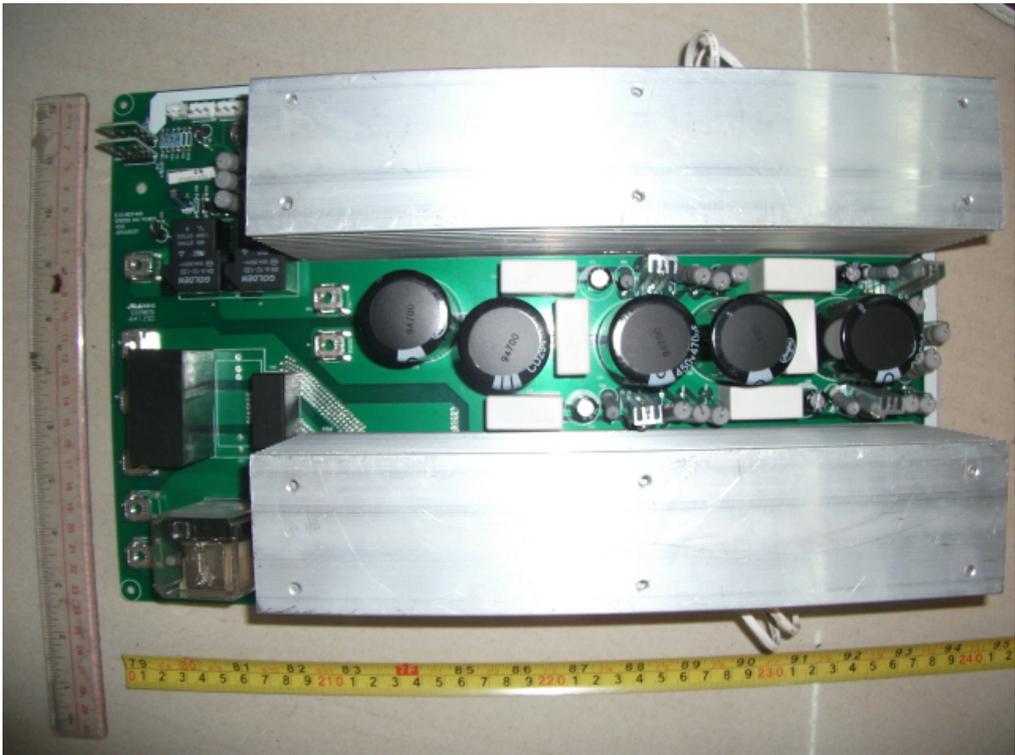
SMPS board



Main board



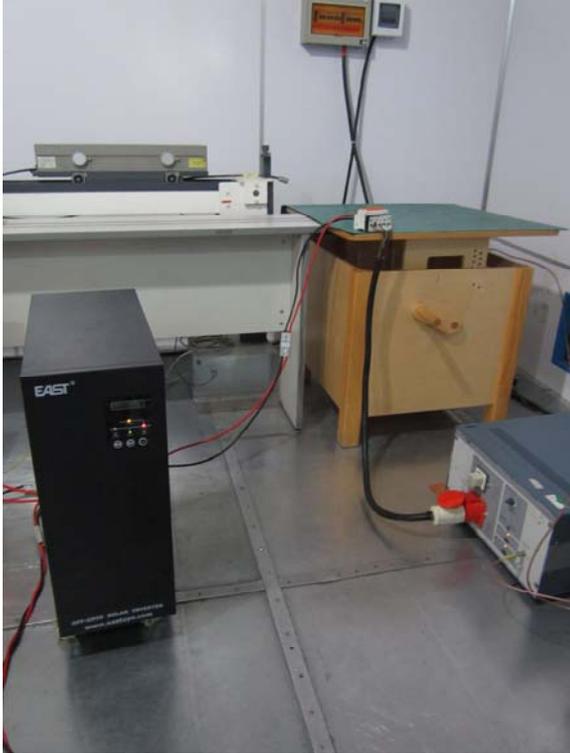
AC charge board



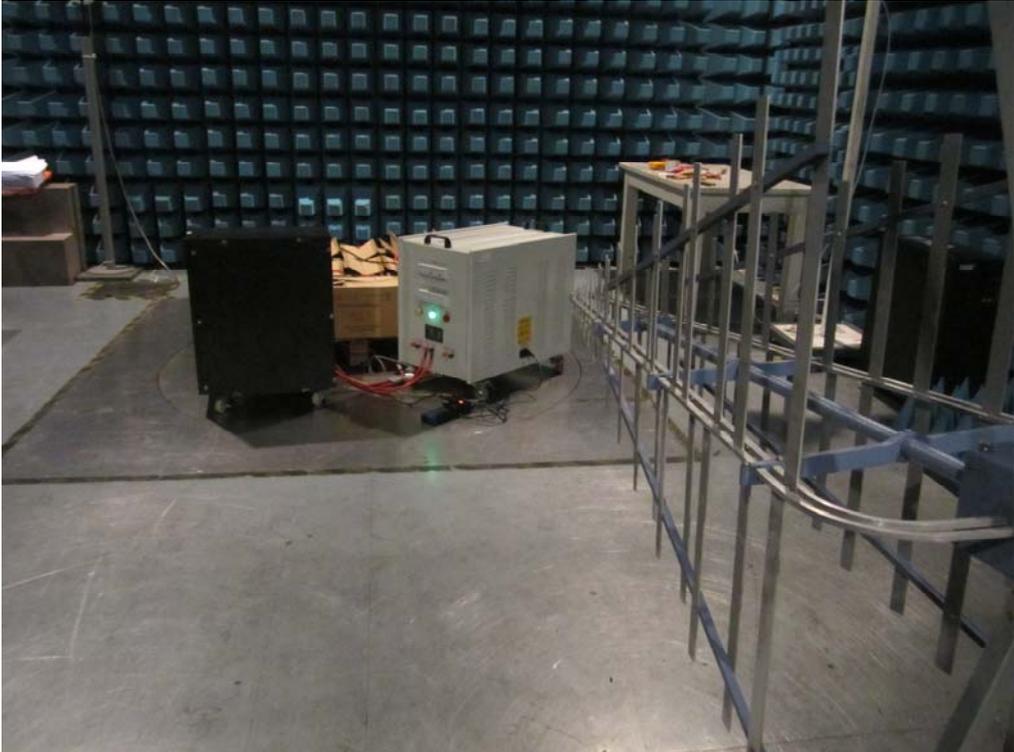
Inverter board

Appendix II: Photographs of EMC Test Configuration

1. Mains Terminal Disturbance Voltage Measurement



2. Radiated Field Strength Measurement



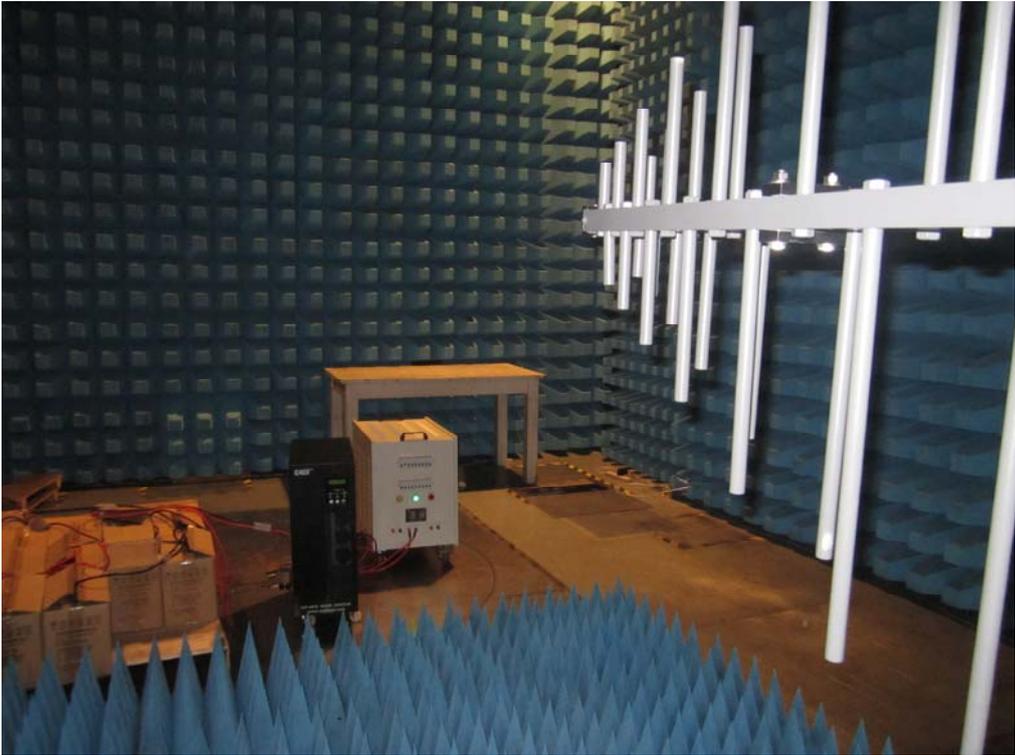
3. Voltage Fluctuation and Flick Measurement, and Voltage Dips and Short Interruptions Immunity Test



4. Electrostatic Discharge Immunity Test



5. Radiated, Radio Frequency Electromagnetic Field Immunity Test (below 1GHz)



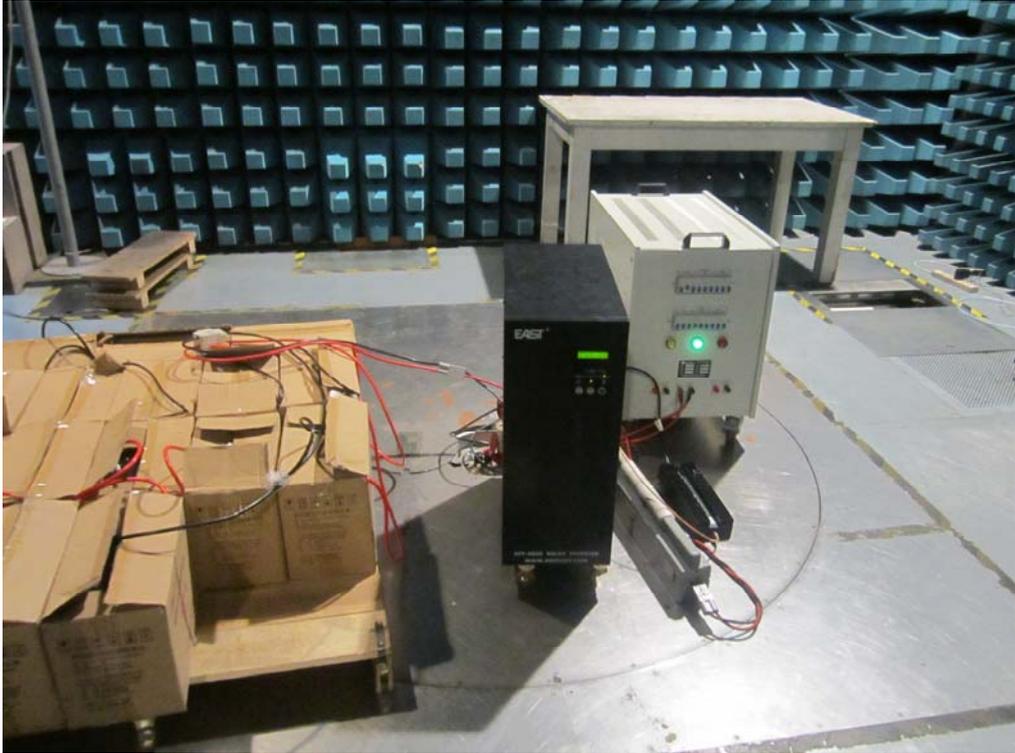
6. Electrical Fast Transient/Burst Immunity Test



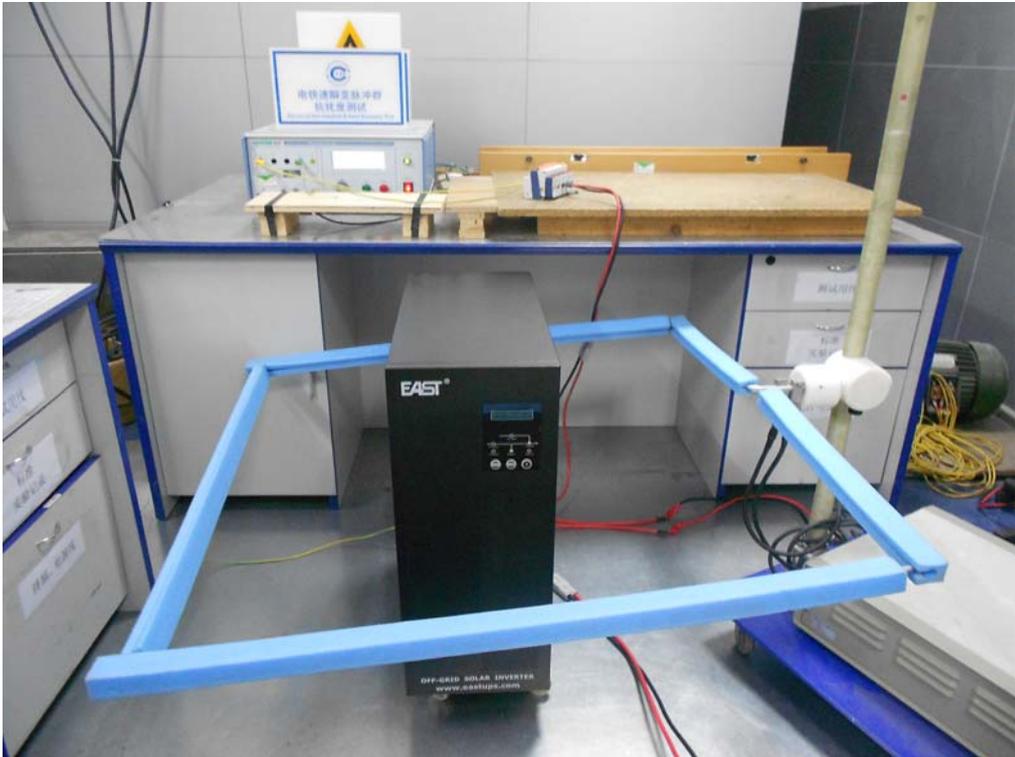
7. Surge Immunity Test



8. Immunity to Conducted Disturbances Induced by RF Fields



9. Power Frequency magnetic Field Immunity



STATEMENT

- 1. This test laboratory is accredited by CNAS, Accreditation Certificate No.L1659.**
- 2. The test report is invalid without stamp of laboratory.**
- 3. The test report is invalid without signature of person(s) testing and authorizing.**
- 4. The test report is invalid if erased and corrected.**
- 5. Test results of the report is valid to the test samples if sampling by client.**
- 6. “☆” item cannot be Accredited by CNAS.**
- 7. The test report shall not be reproduced except in full, without written approval of the laboratory.**
- 8. If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.**

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