Voltage Dips And Interruptions Test Results

SHENZHEN EMTEK CO., LTD.

Applicant	:	SHENZHEN KSTAR SCIENCE AND TECHNOLOGY CO., LTD.	Test Date	:	January 16, 2014
EUT	:	Uninterruptible power systems	Temperature	:	22℃
M/N	:	YDC3320S/H	Humidity	:	50%
Power Supply	:	AC 380V/50Hz	Test Engineer	:	YU

Test Mode: Line mode

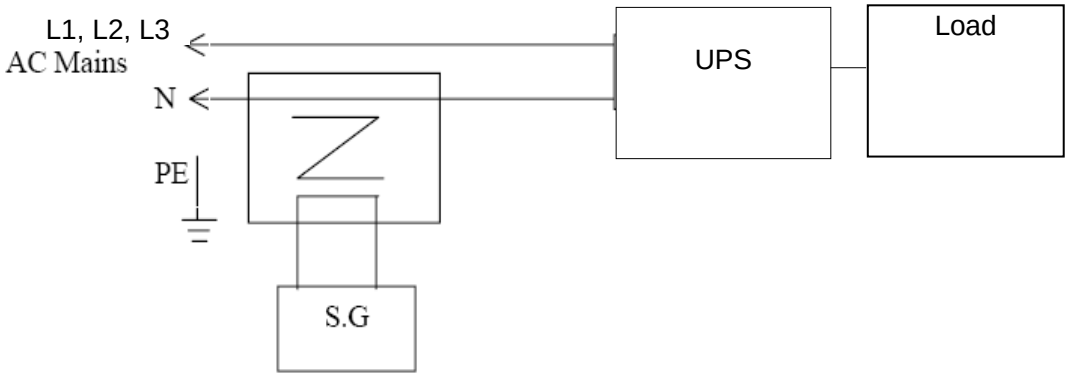
Test Level % U_T	Voltage Dips & Short Interruptions % U_T	Duration (in periods)	Criterion ☐ A ☒ B ☐ C ☐ D	Result
0	100	0.5P	B	A
40	60	10P	B	A
70	30	25P	B	A
0	100	250P	B	B

Note: Test in 0%, 250P, light appears flicker, but can self-recovery.

16. LOW FREQUENCY SIGNALS TEST

16.1. Block Diagram of Test Setup

15.1.1 Block Diagram of the EUT



(EUT: Uninterruptible power systems)
Note: Above test setup is worst case by pretest.

16.2. Test Standard

IEC 61000-2-2:2002, Performance: A

	Criterion A
External and internal indications and metering (LCD)	No change
Output characteristics (Load)	No change
Control signals to external devices (Signal line)	No change
Mode of operation	No change

16.3. Operating Condition of EUT

Same as Section 4.4, Except the test setup replaced by Section 16.1.

16.4. Test Results

PASS.

Please refer to following page.

Low Frequency Signals Test Result

SHENZHEN EMTEK CO., LTD.

Applicant	: SHENZHEN KSTAR SCIENCE & TECHNOLOGY CO., LTD.	Test Date	: September 05, 2014
EUT	: Uninterruptible power systems	Temperature	: 21℃
M/N	: YDC3340H	Humidity	: 50%
Power Supply	: AC 380V/50Hz	Test Mode	: Line mode
Test Engineer	: KY	Actual Criterion	: A

Frequency Range (Hz)	Position	Strength	Result	Note
140	See Fig.1	10V(rms) Sinusoidal	A	/
160			A	/
200			A	/
240			A	/
280			A	/
320			A	/
360			A	/

Note

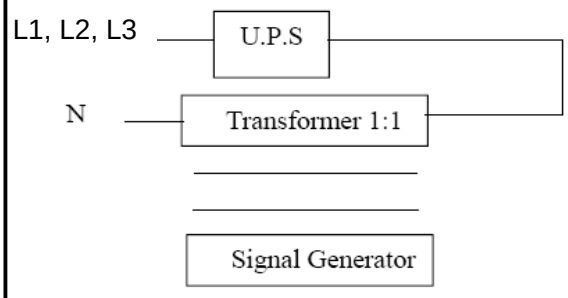


Fig.1

Test Equipment:
1. Isolation transformer
   Primary: Secondary=1:1
2. Signal Generator
   AC Source: 6530(Chroma)

Low Frequency Signals Test Result

SHENZHEN EMTEK CO., LTD.

Applicant	:	SHENZHEN KSTAR SCIENCE AND TECHNOLOGY CO., LTD.	Test Date	:	January 16, 2014
EUT	:	Uninterruptible power systems	Temperature	:	21℃
M/N	:	YDC3320S/H	Humidity	:	50%
Power Supply	:	AC 380V/50Hz	Test Mode	:	Line mode
Test Engineer	:	YU	Actual Criterion	:	A

Frequency Range (Hz)	Position	Strength	Result	Note
140	See Fig.1	10V(rms) Sinusoidal	A	/
160			A	/
200			A	/
240			A	/
280			A	/
320			A	/
360			A	/

Note

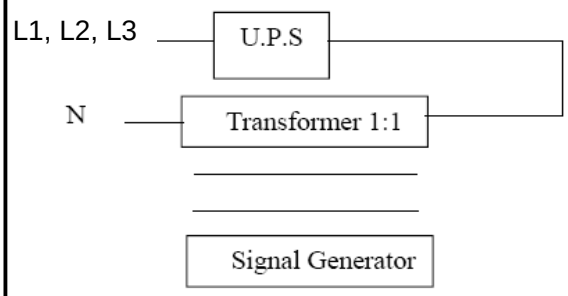


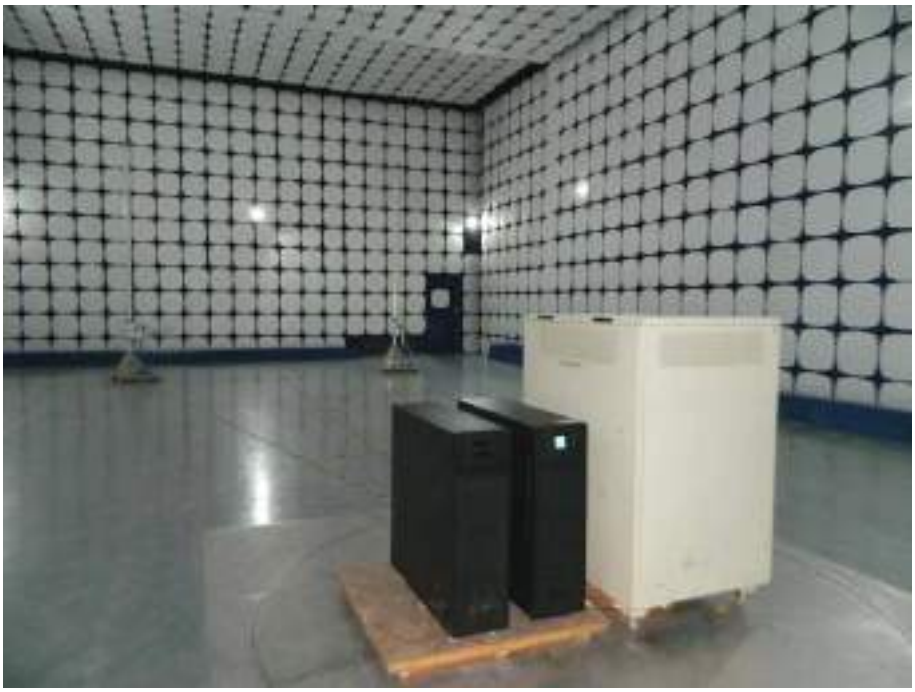
Fig.1

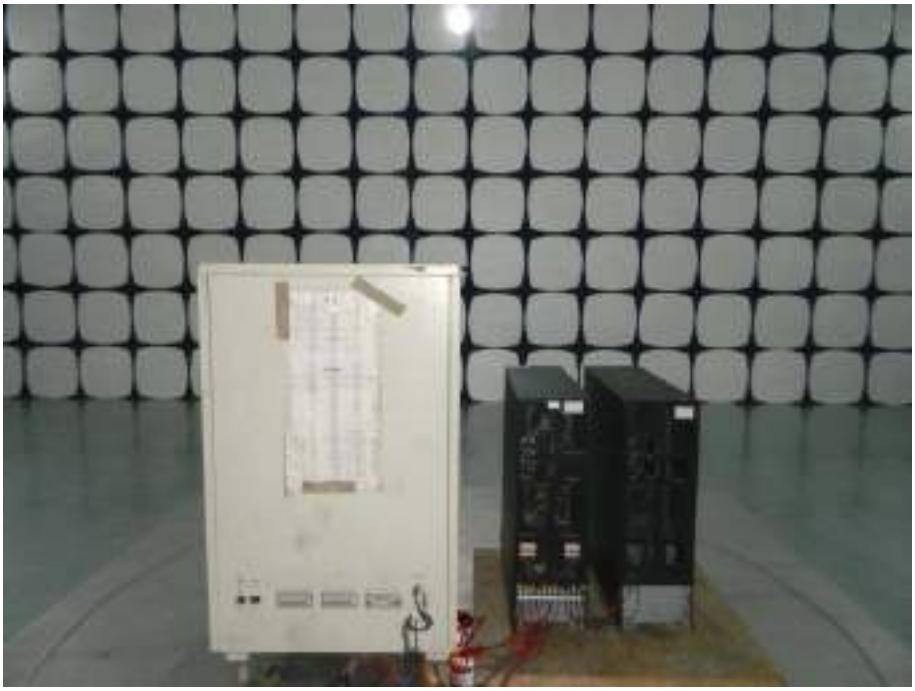
Test Equipment:
3. Isolation transformer
Primary: Secondary=1:1
4. Signal Generator
AC Source: 6530(Chroma)

17. TEST PHOTOGRAPH

17.1.Photos of Conducted Emission Measurement

17.2.Photo of Radiation Emission Measurement



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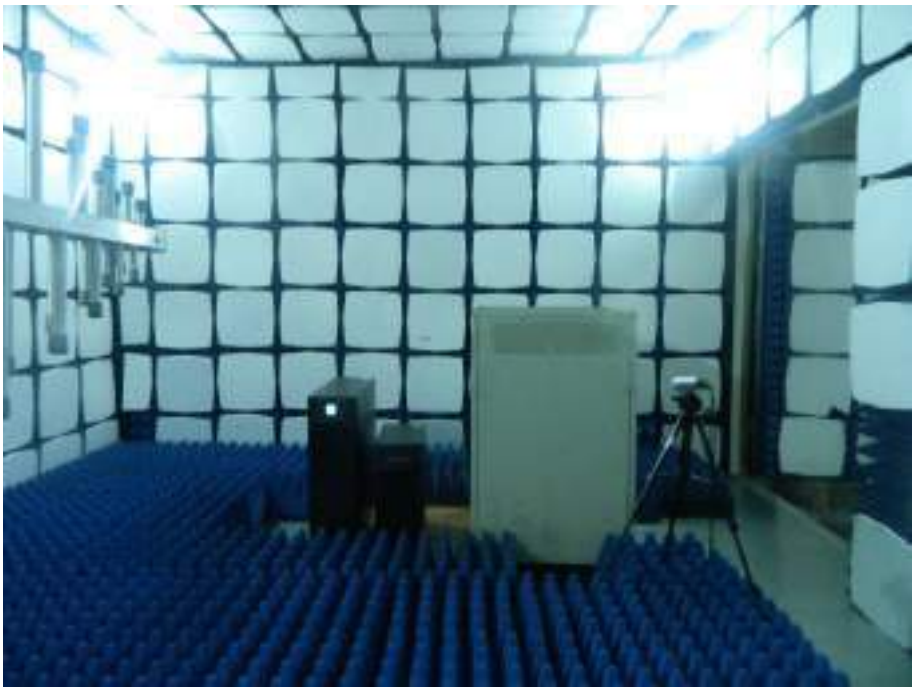
17.3.Photo of Harmonic / Flicker Measurement

17.4.Photo of Electrostatic Discharge Test

17.5.Photo of RF Field Strength susceptibility Test



17.6.Photos of Electrical Fast Transient/Burst Test

17.7.Photo of Surge Test

17.8.Photo of Injected Currents Susceptibility Test

17.9.Photo of Magnetic Field Immunity Test

17.10.Photo of Voltage dips and interruption Test

17.11.Photo of Low Frequency Signals Test

APPENDIX
(Photos of EUT)