Produkte
Products

Prüfbericht - Nr.: *Test Report No.:*	**16012823 001**		**Seite 1 von 29** *Page 1 of 29*
Auftraggeber: *Client:*	**Eaglerise Electric & Electronic (Foshan) Co., Ltd** Guicheng Sci-Tech Industrial Park Jianping Road, Nanhai District Foshan, Guangdong, P.R. China		
Gegenstand der Prüfung: *Test Item:*	**Electronic Convertor**		
Bezeichnung: *Identification:*	**EET210LK EET150LK**	**Serien-Nr.:** *Serial No.:*	**Pre-production Model**
Wareneingangs-Nr.: *Receipt No.:*	**173037266**	**Eingangsdatum:** *Date of Receipt:*	**May 09, 2008**
Prüfort: *Testing Location:*	**Refer to section 2.1**		
Prüfgrundlage: *Test Specification:*	**EN 55015:2006** **EN 61547:1995+A1** **EN 61000-3-2:2006** **EN 61000-3-3:1995+A1+A2**		
Prüfergebnis: *Test Result:*	**Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n).** *The test item passed the test specification(s).*		
Prüflaboratorium: *Testing Laboratory:*	**TÜV Rheinland (Guangdong) Ltd.**		

geprüft/ *tested by:*			**kontrolliert/** *reviewed by:*		
Aug.08, 2008	Ken Kuang Project Engineer		08. Aug 2008	Yvonne Zheng Project Manager	
Datum *Date*	**Name/ Stellung** *Name/Position*	**Unterschrift** *Signature*	**Datum** *Date*	**Name/ Stellung** *Name/Position*	**Unterschrift** *Signature*

Sonstiges/ *Other Aspects:*

The installation has to be carried out according to the manufacturers specification accompanying the product.

Abkürzungen:				*Abbreviations:*			
P(ass)	=	*entspricht Prüfgrundlage*		*P(ass)*	=	*passed*	
F(ail)	=	*entspricht nicht Prüfgrundlage*		*F(ail)*	=	*failed*	
N/A	=	*nicht anwendbar*		*N/A*	=	*not applicable*	
N/T	=	*nicht getestet*		*N/T*	=	*not tested*	

TEST SUMMARY

5.1.1 HARMONICS ON AC MAINS
RESULT: Pass

5.1.2 VOLTAGE FLUCTUATIONS ON AC MAINS
RESULT: Pass

5.1.3 TERMINAL CONTINUOUS DISTURBANCE VOLTAGE
RESULT: Pass

5.1.4 RADIATED ELECTROMAGNETIC DISTURBANCES
RESULT: Pass

6.2.1 RADIATED RADIO-FREQUENCY ELECTROMAGNETIC FIELDS (RS)
RESULT: Pass

6.2.2 RADIO-FREQUENCY COMMON MODE / CONDUCTED SUSCEPTIBILITY (CS)
RESULT: Pass

6.3.1 ELECTRICAL FAST TRANSIENTS (EFT)
RESULT: Pass

6.3.2 SURGE
RESULT: Pass

6.3.3 ELECTROSTATIC DISCHARGES (ESD)
RESULT: Pass

6.4.1 VOLTAGE DIP AND INTERRUPTIONS
RESULT: Pass

Contents

1. General Remarks

When applying the basic standard in this test report, the latest amendment is always included.

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix 1: Test Result

2. Test Sites

2.1 Test Facilities

TÜV Rheinland (Guangdong) Ltd. EMC Laboratory

Guangzhou Auto Market, Yuan Gang Section of Guangshan Road
Guangzhou 510650
P. R. China

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
TÜV Rheinland (Guangdong) Ltd. EMC Laboratory				
EMI Test Receiver	ESCS30	Rohde & Schwarz	100316	27.03.2009
Two-Line V-Network	ESH3-Z5	Rohde & Schwarz	100308	27.03.2009
Pulse Limiter	ESH3-Z2	Rohde & Schwarz	100315	27.03.2009
Triple Loop Antenna	HM 020	Rohde & Schwarz	100021	02.06.2010
Harmonic an Flicker Analyzer	DPA 500	EM TEST	0304-01	27.03.2009
AC Source	ACS 500	EM TEST	0304-01	27.03.2009
ESD tester	NSG438	SCHNAFFNER	533	01.04.2009
Ultra Compact Simulator	UCS 500 M4	EM TEST	V070710225 2	02.06.2009
EMC Immunity Test Instrument	BEST EMC V2.3	SCHNAFFNER	20103-006SC	27.03.2009
Coupling Clamp	CDN 8014	SCHNAFFNER	--	26.11.2009
Continuous Wave Simulator	CWS500C	EMTEST	0404-04	27.03.2009
Attenuator	ATT 6	EMTEST	0402-07	02.04.2009
CDN	CDN-M2/M3	EMTEST	0604-02	02.04.2009
EM Clamp	EM 101	EMTEST	35697	03.06.2010
Signal Generator	SMR 27	Rohde &Schwarz	100125	27.04.2009
Power Amplifier	250W1000A	Amplifier Research	0320145	02.04.2009
Dual Channel Power Meter	NRVD	Rohde &Schwarz	101431	26.11.2008
Log-Periodic Antenna	AT1080	Amplifier Research	0320070	--
Field Probe	FP5080 Kit	Amplifier Research	310947	07.02.2010
Fully Anechoic Chamber	--	Albatross Project GmbH	--	12.04.2009

3. General Product Information

The submitted samples EET150LK and EET210LK are independent Electronic Convertors with strict installation instruction by manufacturer. They have the same PCB layout and similar circuitry. The differences between them are HF-transformer TR, feed-back core T2 and inductance L1.

Based on the above information, test plan was showed as following:

Model No.	Har	DV	RE	EMS					
				RS	CS	ESD	EFT	Surge	Dip
EET150LK	√	√	√	--	--	--	--	√	--
EET210LK	√	√	√	√	√	√	√	√	√

3.1 Product Function and Intended Use

Refer to Constructional Data Form and user manual.

3.2 Ratings and System Details

Type Designation:	EET150LK	EET210LK
Rated input voltage:	AC 230-240V	
Frequency:	50/60Hz	
Rated Output Voltage:	AC 11.5V	AC 11.5V
Rated Output Power:	50-150W	50-210W
Protection Class:	II	

Refer to the Constructional Data Form for further information

3.3 Independent Operation Modes

The basic operation modes are:

Off
On
Refer to the Constructional Data Form and user manual for further information.

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Constructional Data Form

3.5 Submitted Documents

Constructional Data Form
Circuit Diagram
PCB Layout
Parts List
Rating Label
User Manual
Photo documents (refer to safety report 16012821 001)

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

Immunity: The equipment under test (EUT) was configured to have its highest possible susceptibility against the tested phenomena. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Physical Configuration for Testing

Refer to the related chapter in this test report.

4.3 Test Operation and Test Software

Refer to test set-up in chapter 5 and chapter 6.

4.4 Special Accessories and Auxiliary Equipment

None

4.5 Countermeasures to Achieve EMC Compliance

The test sample, which has been tested, contained the noise suppression parts as described in the Constructional Data Form or the Technical Documentation. No additional measures were employed to achieve compliance.

5. Test Results EMISSION

5.1 Emission in the Frequency Range up to 30 MHz

5.1.1 Harmonics on AC Mains

RESULT: **Pass**

Date of testing	:	June 17, 2008
Test procedure	:	EN 61000-3-2:2006, clause C5
Measured harmonics	:	1 - 40
Equipment Class	:	C

Test Setup

Input Voltage	:	230V, 50Hz
Operation Mode	:	On with max. load
Artificial Hand	:	N/A
Earthing	:	N/A
Temperature	:	21°C
Humidity	:	50%

Refer to Appendix 1 for test result.

5.1.2 Voltage Fluctuations on AC Mains

RESULT: **Pass**

Date of testing : --,--,----

Test procedure : EN 61000-3-3:1995+A1+A2
Frequency range : 0 - 2kHz
Limits : EN 61000-3-3:1995+A1+A2, Clause 5

With reference to EN 61000-3-3:1995+A1+A2 clause 6.1* the voltage fluctuations and flicker on AC Mains were not measured because the tested equipment does not contain any automatic switching element and rated input lower than 200W. Due to its construction it is unlikely to produce significant voltage fluctuation or flicker.

*) EN 61000-3-3:1995+A1+A2 Clause 6.1: "Tests should not be made on equipment which is unlikely to produce significant voltage fluctuation or flicker."

5.1.3 Terminal Continuous Disturbance Voltage

RESULT: **Pass**

5.1.3.1 Continuous Disturbance Voltage on AC mains

Date of testing	:	June 13, 2008
Test procedure	:	EN 55015:2006
Frequency range	:	0.009 - 30MHz
Kind of test site	:	Shielded room
Limits	:	EN 55015:2006 Clause 4.3, Table 2a

Test setup

Input Voltage	:	AC 240V, 50Hz
Operation Mode	:	On with maximum disturbance
Artificial Hand	:	N/A
Earthing	:	N/A
Temperature	:	21°C
Humidity	:	50%

If the result of the measurement with the Quasi Peak detector is below the Average limit, the measurement with Average Detector has been omitted
Disturbances other than those mentioned are small or not detectable

Refer to Appendix 1 for test results. The test data in Appendix 1 is the worst result when EUT operated with different load.

5.1.3.2 Continuous Disturbance Voltage on Load Terminal

Date of testing	:	--
Test procedure	:	EN 55015:2006
Frequency range	:	0.009 - 30MHz
Kind of test site	:	Shielded room
Limits	:	EN 55015:2006 Clause 4.3, Table 2b

The submitted sample is a build-in converter, the manufacturer gives strict installation instructions which define the position, type and maximum length of cables to be connected to the lamp, then according to EN 55015:2006 clause 5.3.3.3, the converter shall comply with the radiated disturbance limited given in table 3 instead of the terminal voltage limits given in table 2b. So this test is skipped.

5.1.4 Radiated Electromagnetic Disturbances

RESULT: **Pass**

Date of testing	:	June 13, 2008
Test procedure	:	EN 55015:2006
Frequency range	:	0.009 - 30MHz
Limits	:	EN 55015:2006, Clause 4.4 table 3

Test setup

Input Voltage	:	AC 240V, 50Hz
Operation Mode	:	On with maximum disturbance
Artificial Hand	:	N/A
Earthing	:	N/A
Temperature	:	21°C
Humidity	:	50%

Refer to Appendix 1 for test results.

6. Test Results IMMUNITY

6.1 Continuous Disturbances Classification of Apparatus

According to EN 61547:1995+A1, clause 6.3.2 the EUT shall be tested in accordance with clause 5 and compliance with the performance criteria of table 14.

Continuous Disturbances

Radiated Radio-Frequency Electromagnetic Fields, Amplitude Modulation	**Criterion A**
Radio-Frequency Common Mode / Conducted Susceptibility (C/S)	**Criterion A**

Transient Disturbances

Electrical Fast Transients (EFT)	**Criterion B**
Surge	**Criterion C**
Electrostatic Discharges (ESD)	**Criterion B**

Power Supply Alterations

Voltage Dips And Interruptions	**Criterion C+B**

The immunity against power frequency magnetic field was not tested because the EUTs do not contain components, which are susceptible to magnetic fields. According to EN 61547:1995+A1, clause 5.4: "these tests … need only to be applied to equipment containing components susceptible to magnetic fields"

The output port was fixed with lamps and the length of connecting cable was 2m

6.2 Continuous Disturbances

6.2.1 Radiated Radio-frequency Electromagnetic Fields (RS)

RESULT: **Pass**

Date of testing	:	June 17, 2008
Test specification	:	EN 61547:1995+A1, clause 5.3
Basic Standard	:	IEC 61000-4-3
Frequency range	:	80 -1000MHz
Step size	:	1%
Dwell time	:	1s
Test level	:	3V/m (unmodulated, rms.)
Modulation	:	80% AM, 1kHz
Criterion	:	A

Test Setup

Input Voltage	:	AC 230V, 50Hz
Operation Mode	:	On with max load
Earthing	:	N/A
Temperature	:	21°C
Humidity	:	50%

Table 2: Immunity against Radiated Radio-frequency Electromagnetic Fields (RS)

field polarization	Frequency	Side of EUT	result	remarks
Horizontal	80 -1000 MHz	left	Passed	*)
Horizontal	80 -1000 MHz	right	Passed	*)
Horizontal	80 -1000 MHz	front	Passed	*)
Horizontal	80 -1000 MHz	rear	Passed	*)
Vertical	80 -1000 MHz	left	Passed	*)
Vertical	80 -1000 MHz	right	Passed	*)
Vertical	80 -1000 MHz	front	Passed	*)
Vertical	80 -1000 MHz	rear	Passed	*)

*) equipment operated as intended, no degradation of function

6.2.2 Radio-frequency Common Mode / Conducted Susceptibility (CS)

RESULT: **Pass**

Date of testing : June 17, 2008

Test Specification : EN 61547:1995+A1 clause 5.6
Basic Standard : IEC 61000-4-6
Source impedance : 150Ω
Frequency range : 150kHz - 80MHz
Step size : 1%
Dwell time : 1s
Modulation : AM 80%, 1kHz sine-wave
Performance criterion : A

Test Setup

Input Voltage : AC 230V, 50Hz
Operation Mode : On with max load
Earthing : N/A
Temperature : 21°C
Humidity : 50%

Table 3: Immunity against Radio-frequency Common Mode/ Conducted Susceptibility (CS)

Coupling port	coupling method:	Strenght	result	remarks
AC mains: L N	CDN M-2	3V(r.m.s.)	Passed	equipment operated as intended, no degradation of function
Output port:	EM Clamp	3V(r.m.s.)	Passed	equipment operated as intended, no degradation of function

6.3 Transient Disturbances

6.3.1 Electrical Fast Transients (EFT)

RESULT: **Pass**

Date of testing : June 17, 2008

Test Specification : EN 61547:1995+A1 clause 5.5
Basic Standard : IEC 61000-4-4
Pulsform : T_r/T_h=5/50ns
Repetition Freq. : 5kHz
Test duration : 120sec
Performance criterion : B

Test Setup

Input Voltage : AC 230V, 50Hz
Operation Mode : On with max load
Earthing : N/A
Temperature : 21°C
Humidity : 50%

Table 4: Immunity against Electrical Fast Transients (EFT)

Coupling port	Coupling method	test voltage / result		remarks
AC mains	direct injection	±1000V	Passed	equipment operated as intended, no degradation of function
AC output port	EM clamp	±1000V	Passed	equipment operated as intended, no degradation of function

6.3.2 Surge

RESULT: **Pass**

Date of testing	:	June 17, 2008
Test Specification	:	EN 61547:1995+A1 clause 5.7
Basic Standard	:	IEC 61000-4-5
Pulsform	:	T_r/T_h=1.2/50µs
Test voltages	:	±0.5kV, ±1kV
Coupling	:	Coupling Network for AC Mains
Coupling phases	:	0, π/2, π, 3π/2
Number of surges	:	5 (for each combination of parameters)
Repetition rate	:	Max. 1/min
Performance criterion	:	C

Test Setup

Input Voltage	:	AC 230V, 50Hz
Operation Mode	:	On with max load
Earthing	:	N/A
Temperature	:	21°C
Humidity	:	50%

Table 5: Surge Immunity Tests, AC Power Supply

Coupling port	test voltage	coupling phase / result		remarks
AC mains: L – N	±1000V	0	Passed	equipment operated as intended, no degradation of function
		π/2	Passed	
		π	Passed	
		3π/2	Passed	

6.3.3 Electrostatic Discharges (ESD)

RESULT: **Pass**

Date of testing	:	June 17, 2008
Test Specification	:	EN 61547:1995+A1 clause 5.2
Basic Standard	:	IEC 61000-4-2
Performance criterion	:	B
Charge voltage	:	±4.0kV (contact, VCP, HCP) ±8.0kV (air discharge)
Number of discharges	:	>10
Polarity	:	Positive / Negative

Test Setup

Input Voltage	:	AC 230V, 50Hz
Operation Mode	:	On with max load
Earthing	:	N/A
Temperature	:	22°C
Humidity	:	50%

Table 6: Electrostatic Discharge, both Polarities

Discharge points	type of discharge	Result	remarks
Enclosure	Air	Passed	*)
VCP	Contact	Passed	*)
HCP	Contact	Passed	*)

*) Equipment operated as intended - no degradation of function

6.4 Power Supply Alterations

6.4.1 Voltage Dip and Interruptions

RESULT: **Pass**

Date of testing : June 17, 2008

Test Specification : EN 61547:1995+A1 clause 5.8
Basic Standard : IEC 61000-4-11
Performance criterion : C+B

Test Setup

Input Voltage : AC 230V, 50Hz
Operation Mode : On with max load
Earthing : N/A
Temperature : 21°C
Humidity : 50%

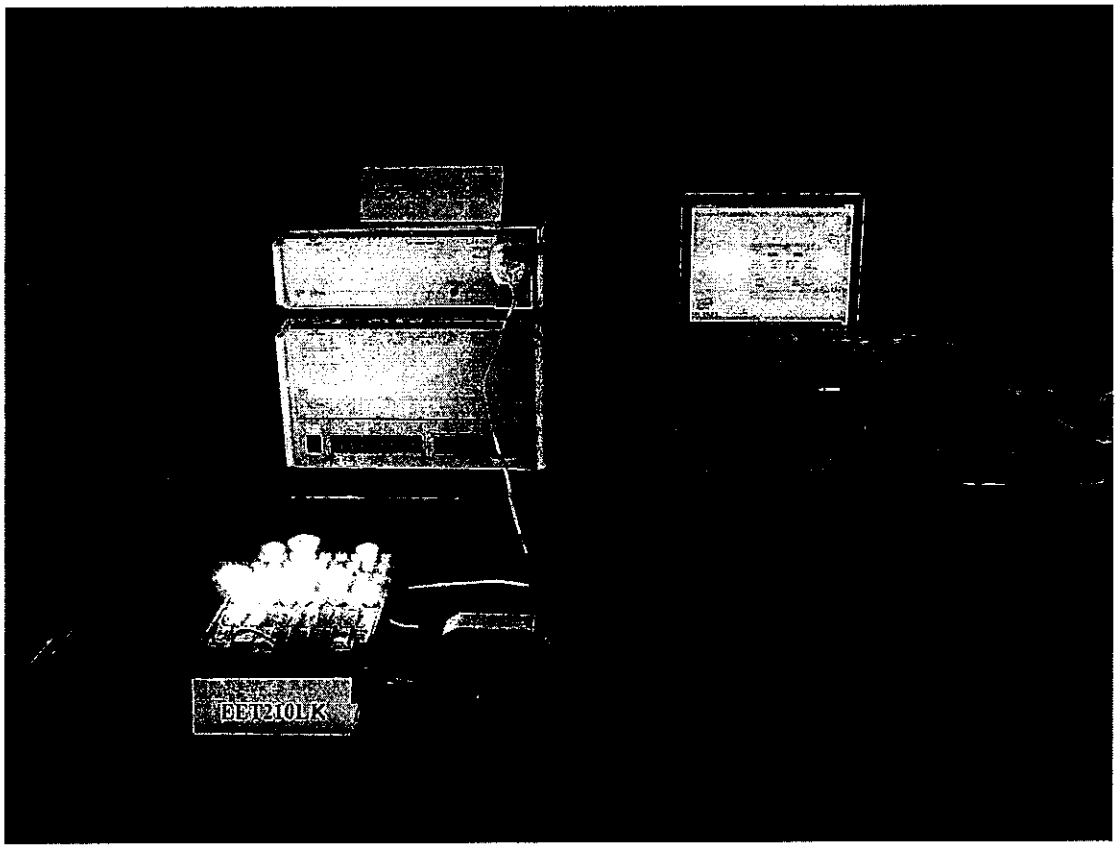
Table 7: Voltage Dip and Interruptions Immunity

voltage reduction [%, appl. voltage V]	Number of periods	criterion	results	remarks
100% (interruption)	0.5	B	Passed	equipment operated as intended - no degradation of function
30%	10	C	Passed	equipment operated as intended - no degradation of function

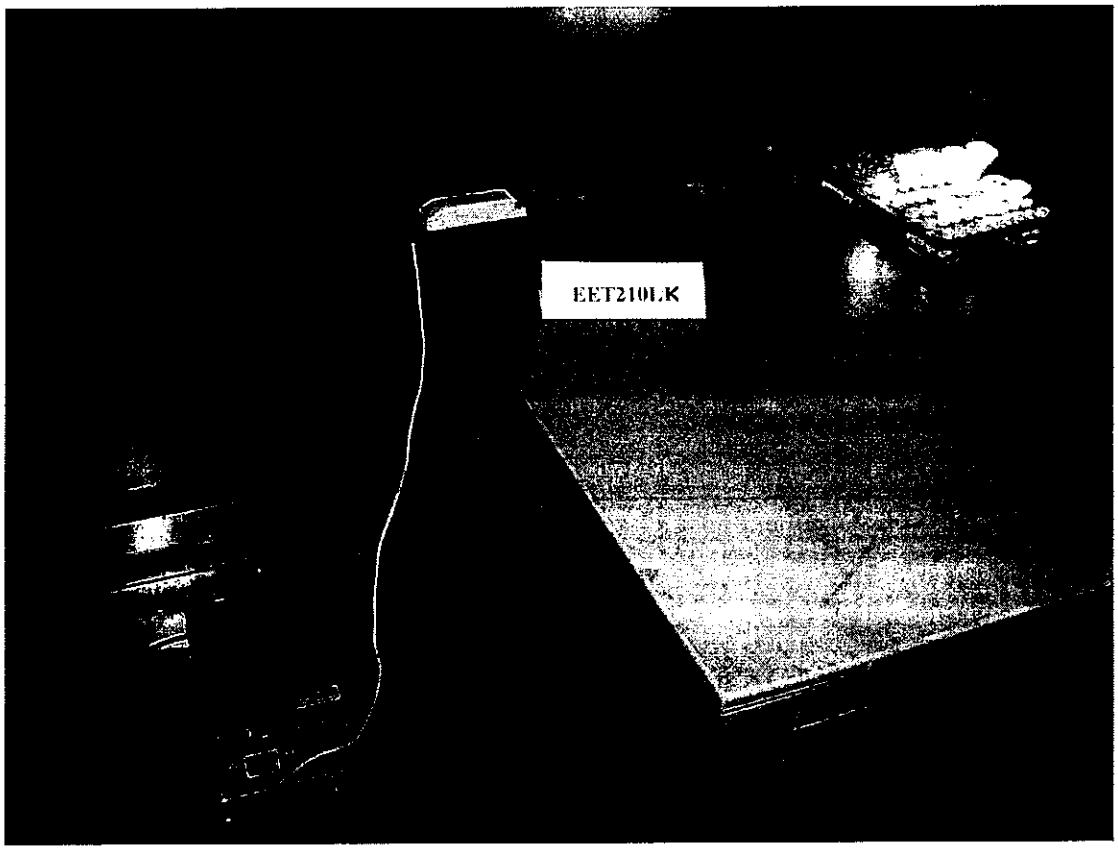
7. Photographs of the Test Set-Up

Note: Test setups of all models are identical and only test setup of model EET210LK are shown here.

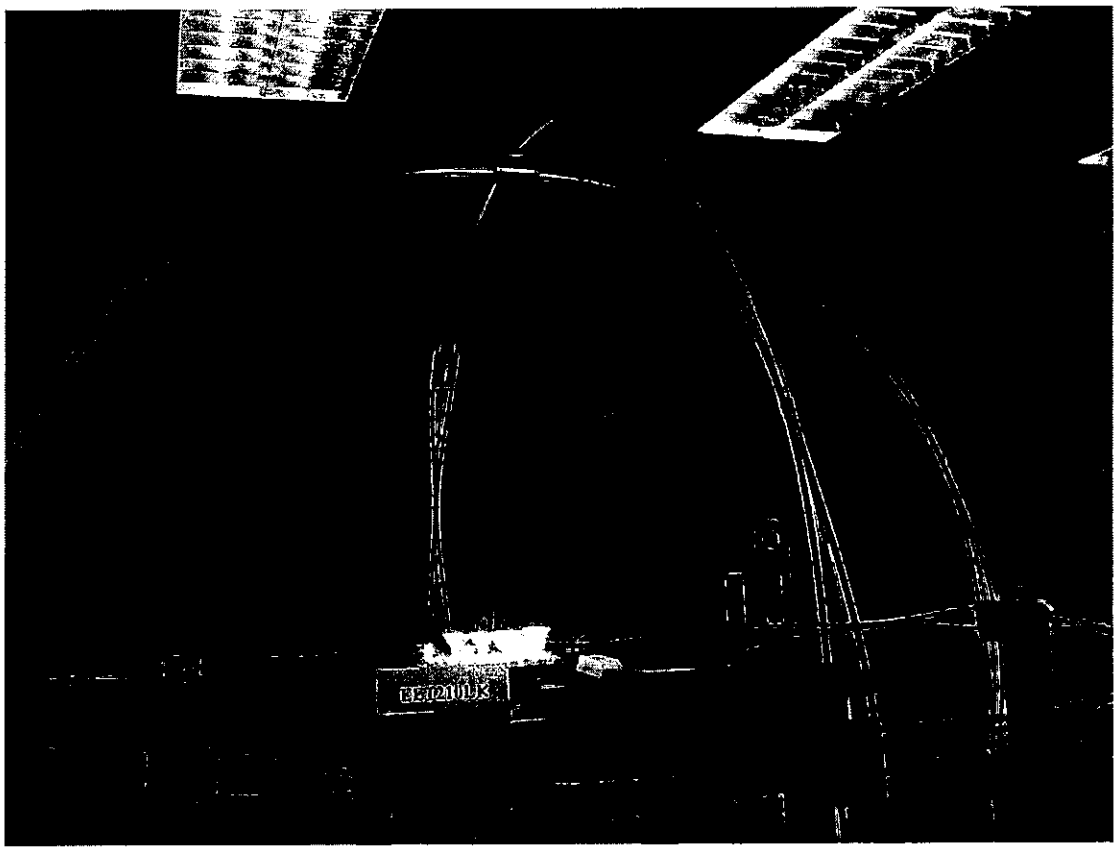
Photograph 1: Set-up for Harmonics



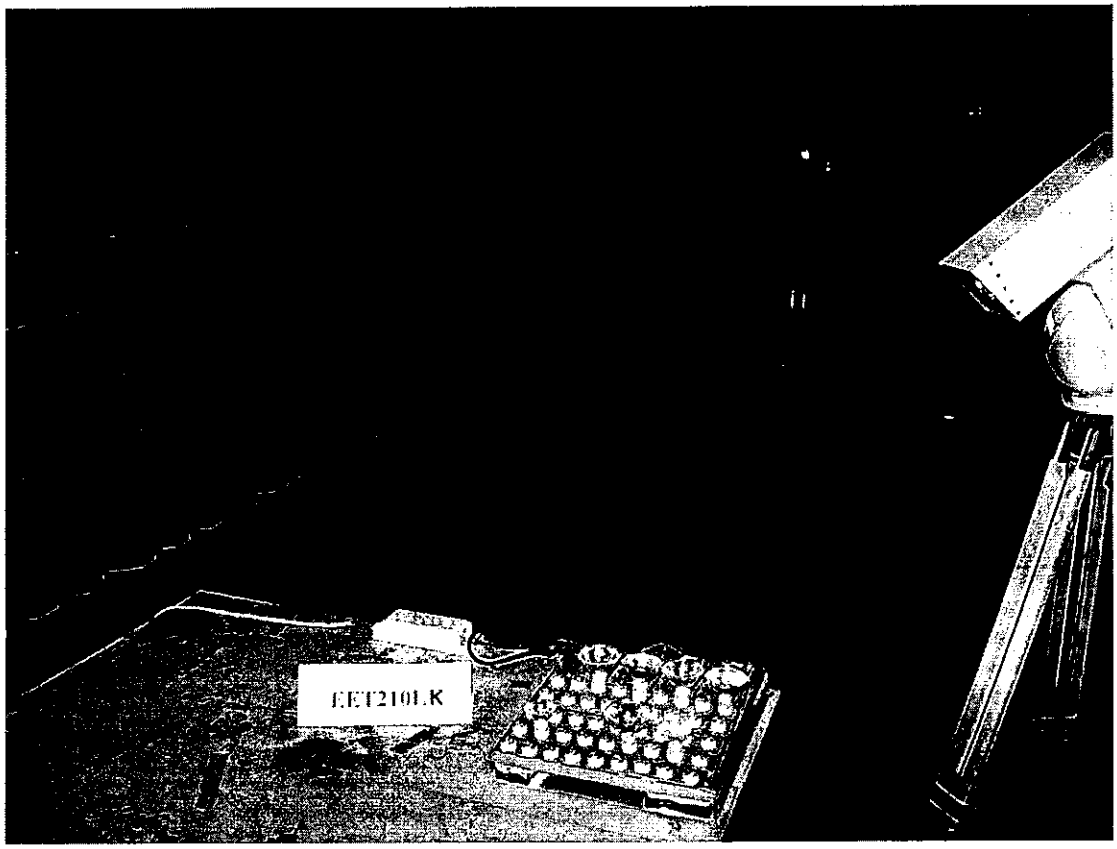
Photograph 2: Set-up for Terminal Disturbance Voltage on AC Mains



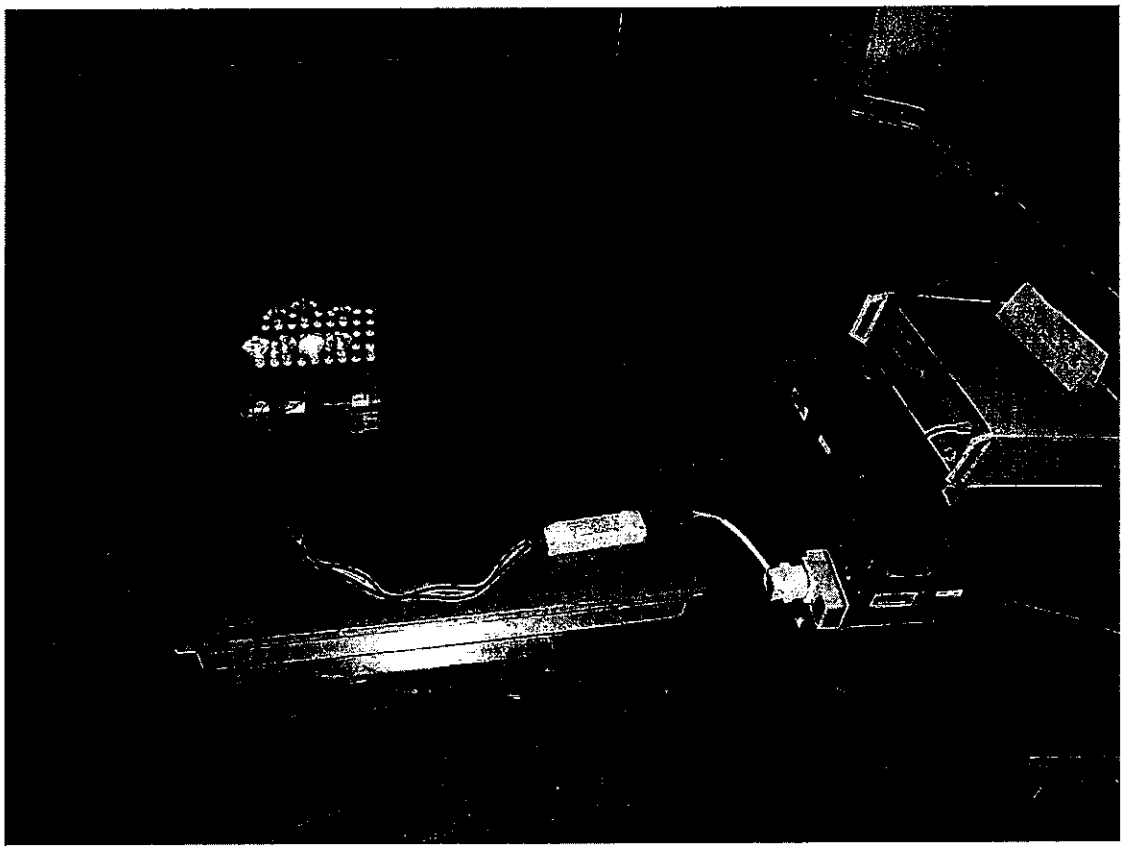
Photograph 3: Set-up for Radiated Electromagnetic Disturbances



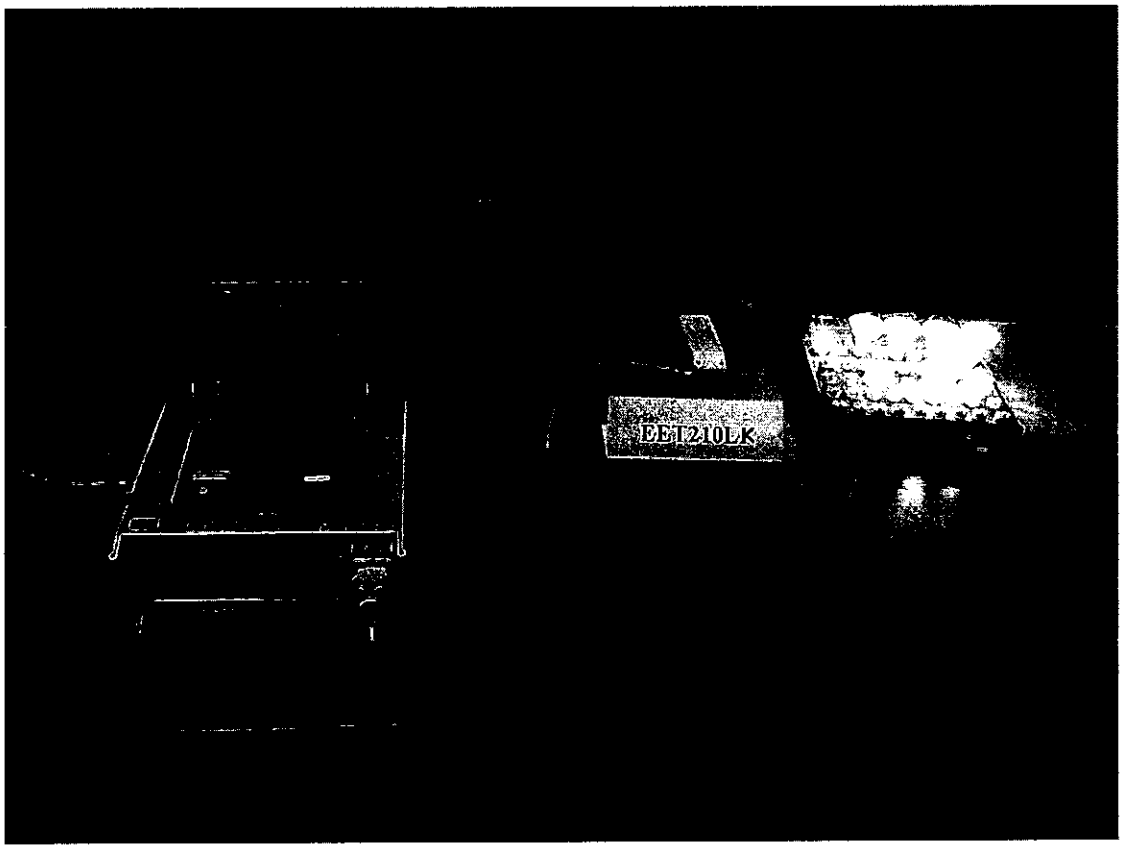
Photograph 4: Set-up for Radiated Susceptibility



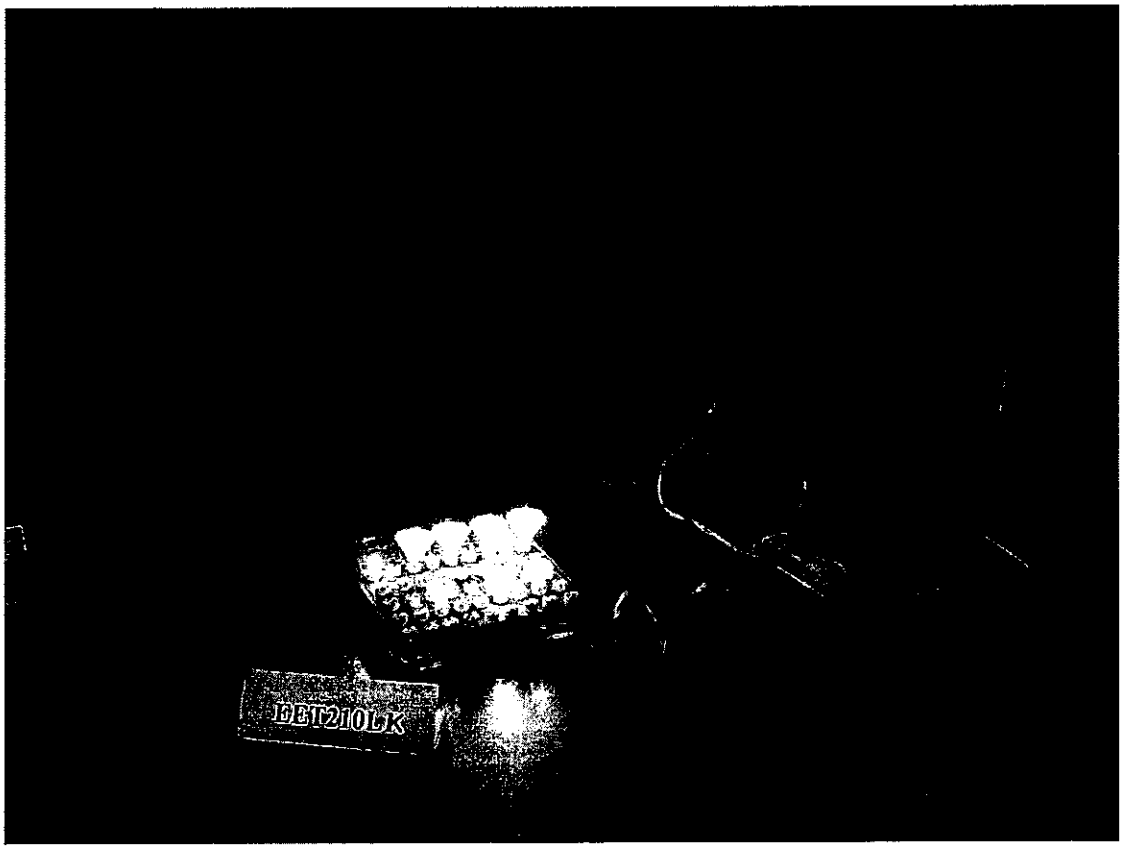
Photograph 5: Set-up for Radio-frequency Common Mode/ Conducted Susceptibility (CS)



Photograph 6: Set-up for Fast Transient Burst, Surge, Voltage Dips and Interruption



Photograph 7: Set-up for Electrostatic Discharge



8. List of Tables

9. List of Photographs

Prüfbericht - Nr.: 16012823 001
Test Report no.

Model : EET210LK 24 of 48

Average harmonic current results

Hn	Ieff [A]	Ieff [%]	Limit [%]	Result
1	869.331E-3	99.551		
2	736.744E-6	0.084	2.00	PASS
3	33.321E-3	3.816	29.89	PASS
4	1.356E-3	0.155		PASS
5	30.880E-3	3.536	10.00	PASS
6	736.262E-6	0.084		PASS
7	27.850E-3	3.189	7.00	PASS
8	663.193E-6	0.076		PASS
9	24.542E-3	2.810	5.00	PASS
10	728.437E-6	0.083		PASS
11	20.588E-3	2.358	3.00	PASS
12	642.061E-6	0.074		PASS
13	16.816E-3	1.926	3.00	PASS
14	1.042E-3	0.119		PASS
15	13.744E-3	1.574	3.00	PASS
16	696.627E-6	0.080		PASS
17	11.146E-3	1.276	3.00	PASS
18	957.531E-6	0.110		PASS
19	9.663E-3	1.107	3.00	PASS
20	695.230E-6	0.080		PASS
21	9.245E-3	1.059	4.50	PASS
22	667.096E-6	0.076		PASS
23	9.178E-3	1.051	4.50	PASS
24	673.168E-6	0.077		PASS
25	8.942E-3	1.024	4.50	PASS
26	704.610E-6	0.081		PASS
27	8.378E-3	0.959	4.50	PASS
28	778.817E-6	0.089		PASS
29	7.595E-3	0.870	4.50	PASS
30	671.728E-6	0.077		PASS
31	7.054E-3	0.808	4.50	PASS
32	803.639E-6	0.092		PASS
33	5.557E-3	0.636	4.50	PASS
34	636.769E-6	0.073		PASS
35	5.199E-3	0.595	4.50	PASS
36	684.431E-6	0.078		PASS
37	5.742E-3	0.658	4.50	PASS
38	681.544E-6	0.078		PASS
39	6.084E-3	0.697	4.50	PASS
40	676.307E-6	0.077		PASS

25 of 48

Maximum harmonic current results

Hn	Ieff [A]	Ieff [%]	Limit [%]	Result
1	873.256E-3	100.000		
2	881.630E-6	0.101	3.00	PASS
3	33.698E-3	3.859	44.84	PASS
4	1.664E-3	0.191		PASS
5	31.219E-3	3.575	15.00	PASS
6	982.937E-6	0.113		PASS
7	28.207E-3	3.230	10.50	PASS
8	726.239E-6	0.083		PASS
9	24.914E-3	2.853	7.50	PASS
10	853.536E-6	0.098		PASS
11	20.857E-3	2.388	4.50	PASS
12	762.954E-6	0.087		PASS
13	17.005E-3	1.947	4.50	PASS
14	1.168E-3	0.134		PASS
15	13.895E-3	1.591	4.50	PASS
16	806.375E-6	0.092		PASS
17	11.366E-3	1.302	4.50	PASS
18	1.165E-3	0.133		PASS
19	9.920E-3	1.136	4.50	PASS
20	808.596E-6	0.093		PASS
21	9.502E-3	1.088	4.50	PASS
22	799.672E-6	0.092		PASS
23	9.587E-3	1.098	4.50	PASS
24	920.549E-6	0.105		PASS
25	9.190E-3	1.052	4.50	PASS
26	777.629E-6	0.089		PASS
27	8.561E-3	0.980	4.50	PASS
28	965.181E-6	0.111		PASS
29	7.815E-3	0.895	4.50	PASS
30	758.758E-6	0.087		PASS
31	7.191E-3	0.824	4.50	PASS
32	989.652E-6	0.113		PASS
33	5.713E-3	0.654	4.50	PASS
34	758.516E-6	0.087		PASS
35	5.354E-3	0.613	4.50	PASS
36	801.603E-6	0.092		PASS
37	5.952E-3	0.682	4.50	PASS
38	818.324E-6	0.094		PASS
39	6.371E-3	0.730	4.50	PASS
40	792.993E-6	0.091		PASS

26 of 48

Maximum harmonic voltage results

Hn	Ueff [V]	Ueff [%]	Limit [%]	Result
1	230.41	100.179		
2	83.10E-3	0.036	0.2	PASS
3	81.85E-3	0.036	0.9	PASS
4	31.10E-3	0.014	0.2	PASS
5	52.73E-3	0.023	0.4	PASS
6	18.21E-3	0.008	0.2	PASS
7	69.58E-3	0.030	0.3	PASS
8	18.05E-3	0.008	0.2	PASS
9	18.34E-3	0.008	0.2	PASS
10	14.26E-3	0.006	0.2	PASS
11	81.91E-3	0.036	0.1	PASS
12	16.54E-3	0.007	0.1	PASS
13	54.86E-3	0.024	0.1	PASS
14	19.03E-3	0.008	0.1	PASS
15	52.80E-3	0.023	0.1	PASS
16	18.18E-3	0.008	0.1	PASS
17	57.67E-3	0.025	0.1	PASS
18	23.51E-3	0.010	0.1	PASS
19	46.09E-3	0.020	0.1	PASS
20	22.55E-3	0.010	0.1	PASS
21	85.67E-3	0.037	0.1	PASS
22	15.64E-3	0.007	0.1	PASS
23	39.08E-3	0.017	0.1	PASS
24	19.38E-3	0.008	0.1	PASS
25	56.98E-3	0.025	0.1	PASS
26	16.29E-3	0.007	0.1	PASS
27	36.84E-3	0.016	0.1	PASS
28	16.16E-3	0.007	0.1	PASS
29	52.61E-3	0.023	0.1	PASS
30	12.85E-3	0.006	0.1	PASS
31	50.41E-3	0.022	0.1	PASS
32	12.30E-3	0.005	0.1	PASS
33	33.93E-3	0.015	0.1	PASS
34	11.12E-3	0.005	0.1	PASS
35	41.94E-3	0.018	0.1	PASS
36	12.13E-3	0.005	0.1	PASS
37	25.67E-3	0.011	0.1	PASS
38	14.62E-3	0.006	0.1	PASS
39	40.28E-3	0.018	0.1	PASS
40	14.86E-3	0.006	0.1	PASS

27 of 48

Harmonic current results PDS: 100

Hn	Ieff [A]	Ieff [%]	Limit [%]	Result
1	871.449E-3	99.793		
2	708.112E-6	0.081	2.00	PASS
3	33.677E-3	3.856	29.89	PASS
4	1.400E-3	0.160		PASS
5	30.869E-3	3.535	10.00	PASS
6	811.000E-6	0.093		PASS
7	28.068E-3	3.214	7.00	PASS
8	675.236E-6	0.077		PASS
9	24.509E-3	2.807	5.00	PASS
10	701.943E-6	0.080		PASS
11	20.524E-3	2.350	3.00	PASS
12	572.314E-6	0.066		PASS
13	16.980E-3	1.944	3.00	PASS
14	1.080E-3	0.124		PASS
15	13.542E-3	1.551	3.00	PASS
16	689.522E-6	0.079		PASS
17	11.181E-3	1.280	3.00	PASS
18	991.956E-6	0.114		PASS
19	9.580E-3	1.097	3.00	PASS
20	710.549E-6	0.081		PASS
21	9.093E-3	1.041	3.00	PASS
22	692.172E-6	0.079		PASS
23	9.385E-3	1.075	3.00	PASS
24	720.804E-6	0.083		PASS
25	8.756E-3	1.003	3.00	PASS
26	694.457E-6	0.080		PASS
27	8.425E-3	0.965	3.00	PASS
28	785.483E-6	0.090		PASS
29	7.638E-3	0.875	3.00	PASS
30	664.163E-6	0.076		PASS
31	7.043E-3	0.806	3.00	PASS
32	860.801E-6	0.099		PASS
33	5.488E-3	0.628	3.00	PASS
34	663.709E-6	0.076		PASS
35	5.230E-3	0.599	3.00	PASS
36	623.990E-6	0.071		PASS
37	5.654E-3	0.648	3.00	PASS
38	698.313E-6	0.080		PASS
39	6.251E-3	0.716	3.00	PASS
40	739.383E-6	0.085		PASS

Caution: Results related to the 100% limit values

2008.6.18 Checked

28 of 48

Harmonic voltage results - DS-100

Hn	Ueff [V]	Ueff [%]	Limit [%]	Result
1	230.33	100.141		
2	68.30E-3	0.030	0.2	PASS
3	73.37E-3	0.032	0.9	PASS
4	13.56E-3	0.006	0.2	PASS
5	45.28E-3	0.020	0.4	PASS
6	13.72E-3	0.006	0.2	PASS
7	58.70E-3	0.026	0.3	PASS
8	13.34E-3	0.006	0.2	PASS
9	9.76E-3	0.004	0.2	PASS
10	1.81E-3	0.001	0.2	PASS
11	71.00E-3	0.031	0.1	PASS
12	8.06E-3	0.004	0.1	PASS
13	39.58E-3	0.017	0.1	PASS
14	10.38E-3	0.005	0.1	PASS
15	45.54E-3	0.020	0.1	PASS
16	2.40E-3	0.001	0.1	PASS
17	44.84E-3	0.019	0.1	PASS
18	2.66E-3	0.001	0.1	PASS
19	35.26E-3	0.015	0.1	PASS
20	15.01E-3	0.007	0.1	PASS
21	67.47E-3	0.029	0.1	PASS
22	6.56E-3	0.003	0.1	PASS
23	25.52E-3	0.011	0.1	PASS
24	9.05E-3	0.004	0.1	PASS
25	40.93E-3	0.018	0.1	PASS
26	10.36E-3	0.005	0.1	PASS
27	18.55E-3	0.008	0.1	PASS
28	1.79E-3	0.001	0.1	PASS
29	47.07E-3	0.020	0.1	PASS
30	7.58E-3	0.003	0.1	PASS
31	38.14E-3	0.017	0.1	PASS
32	5.81E-3	0.003	0.1	PASS
33	19.47E-3	0.008	0.1	PASS
34	6.96E-3	0.003	0.1	PASS
35	27.59E-3	0.012	0.1	PASS
36	7.42E-3	0.003	0.1	PASS
37	19.67E-3	0.009	0.1	PASS
38	11.97E-3	0.005	0.1	PASS
39	32.96E-3	0.014	0.1	PASS
40	11.41E-3	0.005	0.1	PASS

Power and THD results - DS-100

True power P:	200.7W	Apparent power S:	201.4VA
Reactiv power Q:	17.07var	Power factor:	0.996
THD (U):	0.001	THD (I):	0.084
Crest Factor (U):	1.414	Crest Factor (I):	1.427

30 of 48

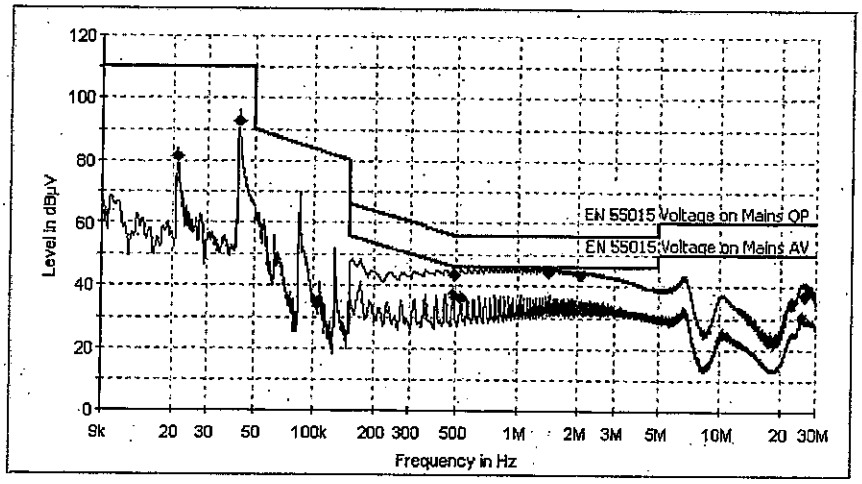
EMC32 Report

Test Information

EUT Name:	Electronic convertor
Model/Type:	~~EET210LT~~ EET210LK
Operating Conditions:	A
Comment:	AC 240V, ~~50Hz~~, L
Hardware Setup:	1phase LISN ESH3-Z5 to ESCS30
Level Unit:	dB µ V

Checked

Subrange	Detectors	IF Bandwidth	Step Size	Meas. Time	Receiver
9kHz - 150kHz	Peak; ~~Average~~	200Hz	100Hz	50ms	ESCS 30
150kHz - 30MHz	Peak; Average	9kHz	4.5kHz	10ms	ESCS 30



31 of 48

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.021200	81.3	50.000	0.200	L1
0.042300	93.0	50.000	0.200	L1
0.490000	43.8	1000.000	9.000	L1
1.415000	44.8	1000.000	9.000	L1
2.045000	43.5	1000.000	9.000	L1
26.665000	37.3	1000.000	9.000	L1

(continuation of the "Final Measurement Detector 1" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.021200	10.1	28.7	110.0	
0.042300	10.0	17.0	110.0	
0.490000	10.1	12.4	56.2	
1.415000	10.3	11.2	56.0	
2.045000	10.2	12.5	56.0	
26.665000	11.8	22.7	60.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.485000	37.0	1000.000	9.000	L1
0.530000	36.2	1000.000	9.000	L1
2.090000	33.7	1000.000	9.000	L1
25.775000	30.1	1000.000	9.000	L1

(continuation of the "Final Measurement Detector 2" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.485000	10.1	9.2	46.3	
0.530000	10.1	9.8	46.0	
2.090000	10.2	12.3	46.0	
25.775000	11.8	19.9	50.0	

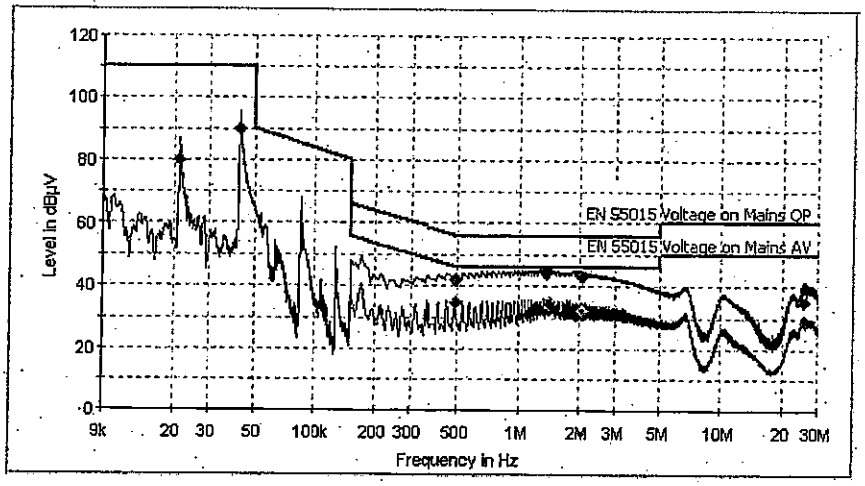
32 of 48

EMC32 Report

Test Information

EUT Name:	Electronic convertor
Model/Type:	~~EET2 10LK~~ EET 2 10 LK
Operating Conditions:	A
Comment:	AC 240V, 50Hz, N
Hardware Setup:	1phase LISN ESH3-Z5 to ESCS30
Level Unit:	dBµV

Subrange	Detectors	IF Bandwidth	Step Size	Meas. Time	Receiver
9kHz - 150kHz	Peak; ~~Average~~	200Hz	100Hz	50ms	ESCS 30
150kHz - 30MHz	Peak; Average	9kHz	4.5kHz	10ms	ESCS 30



33 of 48

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas Time (ms)	Bandwidth (kHz)	Line
0.021300	79.8	50.000	0.200	N
0.042500	89.9	50.000	0.200	N
0.495000	42.2	1000.000	9.000	N
1.375000	44.2	1000.000	9.000	N
2.050000	43.3	1000.000	9.000	N
25.855000	35.3	1000.000	9.000	N

(continuation of the "Final Measurement Detector 1" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.021300	10.1	30.2	110.0	
0.042500	10.0	20.1	110.0	
0.495000	10.1	13.9	56.1	
1.375000	10.3	11.8	56.0	
2.050000	10.2	12.7	56.0	
25.855000	11.8	24.7	60.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Meas Time (ms)	Bandwidth (kHz)	Line
0.490000	34.6	1000.000	9.000	N
1.420000	34.4	1000.000	9.000	N
2.055000	32.1	1000.000	9.000	N
26.295000	29.0	1000.000	9.000	N

(continuation of the "Final Measurement Detector 2" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.490000	10.1	11.5	46.2	
1.420000	10.3	11.6	46.0	
2.055000	10.2	13.9	46.0	
26.295000	11.8	21.0	50.0	

DW 2008.6.24 Checked

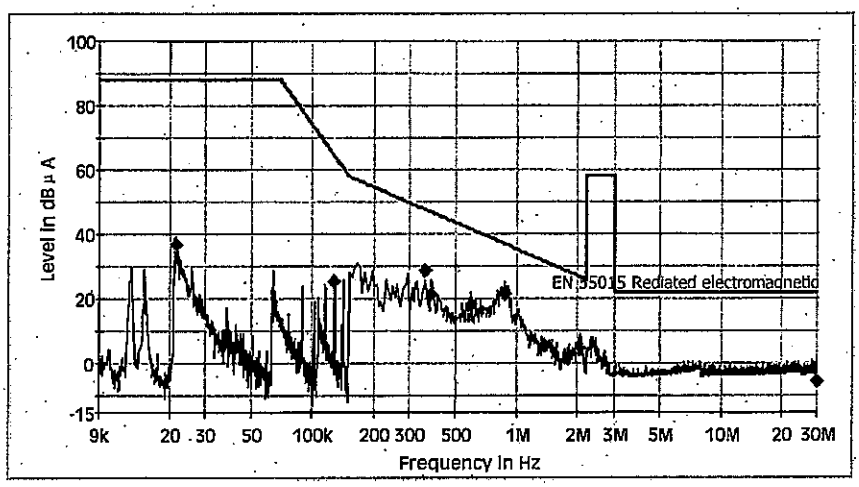
35 of 48

EMC32 Report

Test Information

EUT Name:	Electronic convertor
Model/Type:	~~EET210LT~~ EET210LK
Operating Conditions:	A
Comment:	AC 240V, 50Hz, A1
Hardware Setup:	Loop Antenna to ESCS30
Level Unit:	dB µ A

Subrange	Detectors	IF Bandwidth	Step Size	Meas. Time	Receiver
9kHz - 150kHz	Peak	200Hz	100Hz	50ms	ESCS 30
150kHz - 30MHz	Peak	9kHz	4.5kHz	10ms	ESCS 30



36 of 48

Final Measurement Detector 1

Frequency (MHz)	Quasi-Peak (dBµA)	Measure-Time (ms)	Bandwidth (kHz)	Corr. (dB)	Margin (dB)
0.021400	36.8	1000.000	0.200	0.1	51.2
0.127700	25.6	1000.000	0.200	0.0	38.7
0.355000	28.9	1000.000	9.000	0.0	18.8
0.380000	21.7	1000.000	9.000	0.1	25.3
0.600000	18.3	1000.000	9.000	0.0	23.2
0.870000	21.5	1000.000	9.000	0.0	15.5
2.040000	4.7	1000.000	9.000	0.1	22.2
29.750000	-5.6	1000.000	9.000	0.4	27.6

(continuation of the "Final Measurement Detector 1" table from column 6 ...)

Frequency (MHz)	Limit (dBµA)	Comment
0.021400	88.0	
0.127700	64.3	
0.355000	47.7	
0.380000	46.9	
0.600000	41.5	
0.870000	37.1	
2.040000	26.9	
29.750000	22.0	

Checked

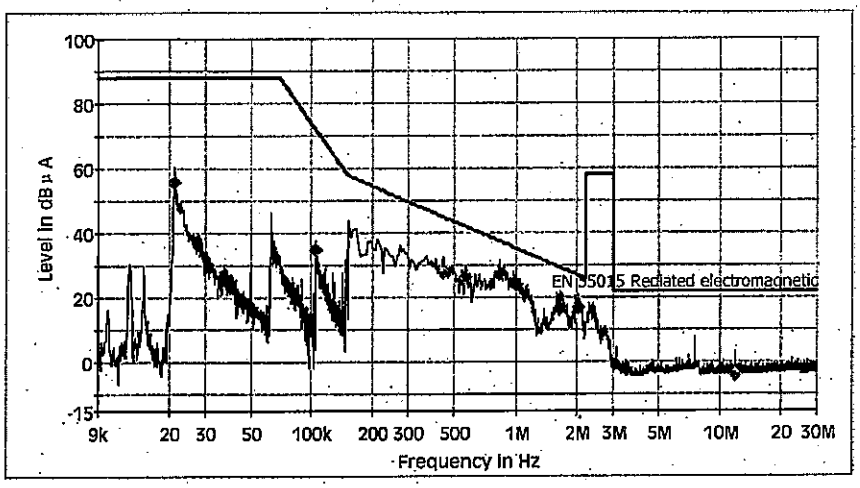
37 of 48

EMC32 Report

Test Information

EUT Name:	Electronic convertor
Model/Type:	~~EET210LT~~ EET210LK
Operating Conditions:	A
Comment:	AC 240V, 50Hz, A2
Hardware Setup:	Loop Antenna to ESCS30
Level Unit:	dB µ A

Subrange	Detectors	IF Bandwidth	Step Size	Meas. Time	Receiver
9kHz - 150kHz	Peak	200Hz	100Hz	50ms	ESCS 30
150kHz - 30MHz	Peak	9kHz	4.5kHz	10ms	ESCS 30



38 of 48

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµA)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB)	Margin (dB)
0.021100	55.9	1000.000	0.200	0.1	32.1
0.105500	34.9	1000.000	0.200	0.0	37.0
0.445000	27.7	1000.000	9.000	0.0	17.3
0.570000	26.1	1000.000	9.000	0.1	16.0
0.830000	27.3	1000.000	9.000	0.0	10.3
1.000000	23.9	1000.000	9.000	0.1	11.5
1.635000	16.6	1000.000	9.000	0.2	12.9
2.030000	16.9	1000.000	9.000	0.1	10.1
11.965000	-4.1	1000.000	9.000	0.3	26.1

(continuation of the "Final Measurement Detector 1" table from column 6 ...)

Frequency (MHz)	Limit (dBµA)	Comment
0.021100	88.0	
0.105500	71.9	
0.445000	45.0	
0.570000	42.1	
0.830000	37.6	
1.000000	35.4	
1.635000	29.5	
2.030000	27.0	
11.965000	22.0	

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321

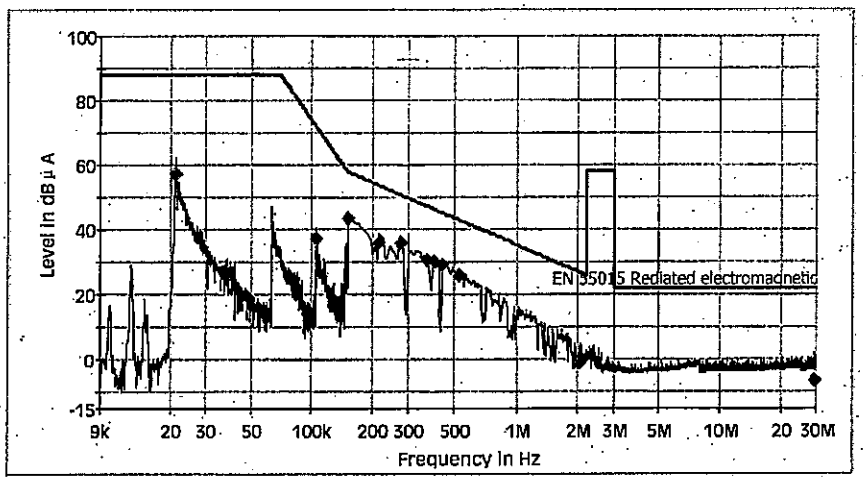
39 of 48

EMC32 Report

Test Information

EUT Name:	Electronic convertor
Model/Type:	~~EET21015~~ EET21OLK
Operating Conditions:	A
Comment:	AC 240V, 50Hz, A3
Hardware Setup:	Loop Antenna to ESCS30
Level Unit:	dB µ A

Subrange	Detectors	IF Bandwidth	Step Size	Meas. Time	Receiver
9kHz - 150kHz	Peak	200Hz	100Hz	50ms	ESCS 30
150kHz - 30MHz	Peak	9kHz	4.5kHz	10ms	ESCS 30



40 of 48

Final Measurement Detector 1

Frequency (MHz)	Quasi-Peak (dBµA)	Meas. Time (ms)	Bandwidth (kHz)	TCorr (dB)	Margin (dB)
0.021200	57.3	1000.000	0.200	0.1	30.7
0.105200	37.1	1000.000	0.200	0.0	34.8
0.150000	43.6	1000.000	9.000	0.0	14.4
0.215000	35.9	1000.000	9.000	0.1	17.8
0.275000	35.7	1000.000	9.000	0.0	15.1
0.365000	30.6	1000.000	9.000	0.1	16.8
0.400000	30.3	1000.000	9.000	0.1	16.0
0.440000	29.0	1000.000	9.000	0.1	16.2
0.525000	26.1	1000.000	9.000	0.1	17.0
2.070000	-0.9	1000.000	9.000	0.1	27.7
29.535000	-6.3	1000.000	9.000	0.4	28.3

(continuation of the "Final Measurement Detector 1" table from column 6 ...)

Frequency (MHz)	Limit (dBµA)	Comment
0.021200	88.0	
0.105200	72.0	
0.150000	58.0	
0.215000	53.7	
0.275000	50.8	
0.365000	47.4	
0.400000	46.3	
0.440000	45.2	
0.525000	43.1	
2.070000	26.7	
29.535000	22.0	

2008 6.18 Checked

Model : EET150LK 4 of 48

Average harmonic current results

Hn	Ieff [A]	Ieff [%]	Limit [%]	Result
1	628.700E-3	99.902		
2	666.891E-6	0.106	2.00	PASS
3	30.669E-3	4.873	29.87	PASS
4	1.257E-3	0.200		PASS
5	25.948E-3	4.123	10.00	PASS
6	713.560E-6	0.113		PASS
7	22.261E-3	3.537	7.00	PASS
8	757.963E-6	0.120		PASS
9	18.232E-3	2.897	5.00	PASS
10	697.843E-6	0.111		PASS
11	13.992E-3	2.223	3.00	PASS
12	631.011E-6	0.100		PASS
13	11.222E-3	1.783	3.00	PASS
14	976.015E-6	0.155		PASS
15	8.336E-3	1.325	3.00	PASS
16	649.718E-6	0.103		PASS
17	7.353E-3	1.168	3.00	PASS
18	926.753E-6	0.147		PASS
19	6.827E-3	1.085	3.00	PASS
20	684.260E-6	0.109		PASS
21	7.232E-3	1.149	4.50	PASS
22	678.754E-6	0.108		PASS
23	7.082E-3	1.125	4.50	PASS
24	669.511E-6	0.106		PASS
25	6.233E-3	0.990	4.50	PASS
26	692.971E-6	0.110		PASS
27	5.685E-3	0.903	4.50	PASS
28	821.426E-6	0.131		PASS
29	4.950E-3	0.787	4.50	PASS
30	643.030E-6	0.102		PASS
31	3.551E-3	0.564	4.50	PASS
32	801.924E-6	0.127		PASS
33	3.393E-3	0.539	4.50	PASS
34	621.165E-6	0.099		PASS
35	3.759E-3	0.597	4.50	PASS
36	693.767E-6	0.110		PASS
37	3.651E-3	0.580	4.50	PASS
38	665.164E-6	0.106		PASS
39	3.745E-3	0.595	4.50	PASS
40	693.072E-6	0.110		PASS

5 of 48

Maximum harmonic current results

Hn	Ieff [A]	Ieff [%]	Limit [%]	Result
1	629.317E-3	100.000		
2	796.998E-6	0.127	3.00	PASS
3	31.005E-3	4.927	44.81	PASS
4	1.453E-3	0.231		PASS
5	26.297E-3	4.179	15.00	PASS
6	821.733E-6	0.131		PASS
7	22.387E-3	3.557	10.50	PASS
8	847.020E-6	0.135		PASS
9	18.535E-3	2.945	7.50	PASS
10	845.005E-6	0.134		PASS
11	14.276E-3	2.269	4.50	PASS
12	773.292E-6	0.123		PASS
13	11.371E-3	1.807	4.50	PASS
14	1.088E-3	0.173		PASS
15	8.656E-3	1.376	4.50	PASS
16	727.758E-6	0.116		PASS
17	7.646E-3	1.215	4.50	PASS
18	1.023E-3	0.163		PASS
19	7.000E-3	1.112	4.50	PASS
20	784.810E-6	0.125		PASS
21	7.366E-3	1.171	4.50	PASS
22	784.668E-6	0.125		PASS
23	7.250E-3	1.152	4.50	PASS
24	740.252E-6	0.118		PASS
25	6.389E-3	1.015	4.50	PASS
26	767.705E-6	0.122		PASS
27	5.821E-3	0.925	4.50	PASS
28	982.225E-6	0.156		PASS
29	5.083E-3	0.808	4.50	PASS
30	739.964E-6	0.118		PASS
31	3.654E-3	0.581	4.50	PASS
32	949.368E-6	0.151		PASS
33	3.548E-3	0.564	4.50	PASS
34	698.215E-6	0.111		PASS
35	3.886E-3	0.617	4.50	PASS
36	751.159E-6	0.119		PASS
37	3.804E-3	0.605	4.50	PASS
38	743.212E-6	0.118		PASS
39	3.844E-3	0.611	4.50	PASS
40	833.626E-6	0.132		PASS

HCF 2008.6.19 Check

Check

6 of 48

Maximum harmonic voltage results

Hn	Ueff [V]	Ueff [%]	Limit [%]	Result
1	230.42	100.181		
2	83.19E-3	0.036	0.2	PASS
3	83.31E-3	0.036	0.9	PASS
4	31.81E-3	0.014	0.2	PASS
5	49.31E-3	0.021	0.4	PASS
6	14.93E-3	0.006	0.2	PASS
7	67.74E-3	0.029	0.3	PASS
8	16.77E-3	0.007	0.2	PASS
9	17.46E-3	0.008	0.2	PASS
10	13.25E-3	0.006	0.2	PASS
11	82.77E-3	0.036	0.1	PASS
12	14.41E-3	0.006	0.1	PASS
13	61.97E-3	0.027	0.1	PASS
14	18.12E-3	0.008	0.1	PASS
15	41.64E-3	0.018	0.1	PASS
16	16.13E-3	0.007	0.1	PASS
17	62.75E-3	0.027	0.1	PASS
18	16.57E-3	0.007	0.1	PASS
19	47.95E-3	0.021	0.1	PASS
20	18.12E-3	0.008	0.1	PASS
21	73.66E-3	0.032	0.1	PASS
22	16.43E-3	0.007	0.1	PASS
23	56.60E-3	0.025	0.1	PASS
24	17.00E-3	0.007	0.1	PASS
25	44.87E-3	0.020	0.1	PASS
26	13.90E-3	0.006	0.1	PASS
27	62.39E-3	0.027	0.1	PASS
28	15.48E-3	0.007	0.1	PASS
29	29.58E-3	0.013	0.1	PASS
30	12.09E-3	0.005	0.1	PASS
31	55.45E-3	0.024	0.1	PASS
32	16.20E-3	0.007	0.1	PASS
33	25.14E-3	0.011	0.1	PASS
34	13.19E-3	0.006	0.1	PASS
35	41.68E-3	0.018	0.1	PASS
36	14.22E-3	0.006	0.1	PASS
37	24.48E-3	0.011	0.1	PASS
38	15.50E-3	0.007	0.1	PASS
39	37.94E-3	0.016	0.1	PASS
40	15.32E-3	0.007	0.1	PASS

7 of 48

Harmonic current results: IDS=100

Hn	Ieff [A]	Ieff [%]	Limit [%]	Result
1	628.944E-3	99.941		
2	701.281E-6	0.111	2.00	PASS
3	30.867E-3	4.905	29.87	PASS
4	1.223E-3	0.194		PASS
5	26.162E-3	4.157	10.00	PASS
6	651.654E-6	0.104		PASS
7	22.297E-3	3.543	7.00	PASS
8	817.091E-6	0.130		PASS
9	18.143E-3	2.883	5.00	PASS
10	662.803E-6	0.105		PASS
11	13.956E-3	2.218	3.00	PASS
12	603.021E-6	0.096		PASS
13	11.225E-3	1.784	3.00	PASS
14	938.821E-6	0.149		PASS
15	8.248E-3	1.311	3.00	PASS
16	613.164E-6	0.097		PASS
17	7.323E-3	1.164	3.00	PASS
18	908.781E-6	0.144		PASS
19	6.857E-3	1.090	3.00	PASS
20	681.310E-6	0.108		PASS
21	7.221E-3	1.147	3.00	PASS
22	659.441E-6	0.105		PASS
23	7.128E-3	1.133	3.00	PASS
24	645.917E-6	0.103		PASS
25	6.227E-3	0.990	3.00	PASS
26	740.797E-6	0.118		PASS
27	5.735E-3	0.911	3.00	PASS
28	814.300E-6	0.129		PASS
29	4.982E-3	0.792	3.00	PASS
30	637.754E-6	0.101		PASS
31	3.588E-3	0.570	3.00	PASS
32	795.870E-6	0.126		PASS
33	3.361E-3	0.534	3.00	PASS
34	600.736E-6	0.095		PASS
35	3.763E-3	0.598	3.00	PASS
36	717.579E-6	0.114		PASS
37	3.652E-3	0.580	3.00	PASS
38	709.449E-6	0.113		PASS
39	3.744E-3	0.595	3.00	PASS
40	644.569E-6	0.102		PASS

Caution: Results related to the 100% limit values

8 of 48

Harmonic voltage results - DS_100

Hn	Ueff [V]	Ueff [%]	Limit [%]	Result
1	230.38	100.167		
2	70.84E-3	0.031	0.2	PASS
3	69.14E-3	0.030	0.9	PASS
4	16.10E-3	0.007	0.2	PASS
5	30.93E-3	0.013	0.4	PASS
6	6.01E-3	0.003	0.2	PASS
7	60.25E-3	0.026	0.3	PASS
8	7.66E-3	0.003	0.2	PASS
9	11.80E-3	0.005	0.2	PASS
10	7.51E-3	0.003	0.2	PASS
11	74.54E-3	0.032	0.1	PASS
12	3.88E-3	0.002	0.1	PASS
13	50.68E-3	0.022	0.1	PASS
14	9.67E-3	0.004	0.1	PASS
15	31.15E-3	0.014	0.1	PASS
16	3.53E-3	0.002	0.1	PASS
17	53.49E-3	0.023	0.1	PASS
18	5.47E-3	0.002	0.1	PASS
19	26.45E-3	0.012	0.1	PASS
20	11.93E-3	0.005	0.1	PASS
21	58.97E-3	0.026	0.1	PASS
22	7.41E-3	0.003	0.1	PASS
23	33.27E-3	0.014	0.1	PASS
24	9.47E-3	0.004	0.1	PASS
25	26.79E-3	0.012	0.1	PASS
26	4.99E-3	0.002	0.1	PASS
27	34.07E-3	0.015	0.1	PASS
28	6.90E-3	0.003	0.1	PASS
29	18.38E-3	0.008	0.1	PASS
30	2.98E-3	0.001	0.1	PASS
31	36.87E-3	0.016	0.1	PASS
32	8.15E-3	0.004	0.1	PASS
33	9.12E-3	0.004	0.1	PASS
34	7.61E-3	0.003	0.1	PASS
35	30.46E-3	0.013	0.1	PASS
36	7.98E-3	0.003	0.1	PASS
37	14.80E-3	0.006	0.1	PASS
38	4.32E-3	0.002	0.1	PASS
39	31.37E-3	0.014	0.1	PASS
40	3.67E-3	0.002	0.1	PASS

Power and THD results - DS_100

True power P:	144.9W	Apparent power S:	145.5VA
Reactiv power Q:	13.49var	Power factor:	0.996
THD (U):	0.001	THD (I):	0.091
Crest Factor (U):	1.414	Crest Factor (I):	1.444

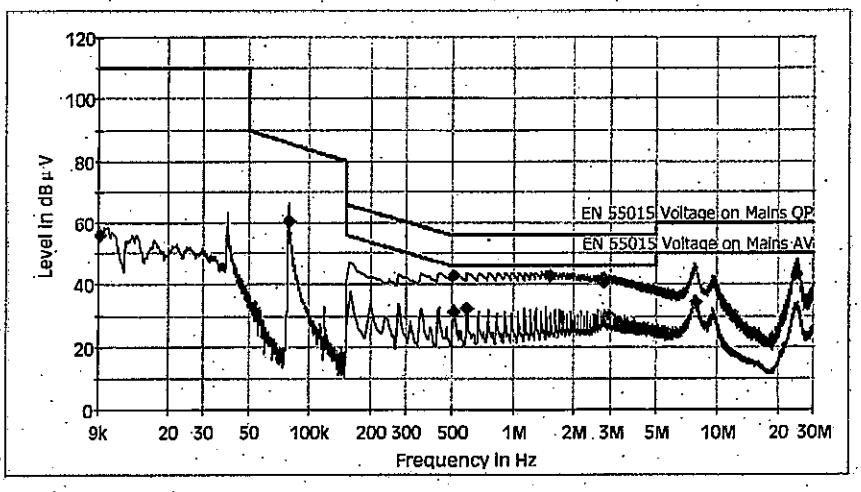
10 of 48

EMC32 Report

Test Information

EUT Name:	Electronic convertor
Model/Type:	EET16061 E2 T1/50 LK
Operating Conditions:	Eaglerise
Comment:	AC 240V, 50Hz, N
Hardware Setup:	1phase LISN ESH3-Z5 to ESCS30
Level Unit:	dBµV

Subrange	Detectors	IF Bandwidth	Step Size	Meas. Time	Receiver
9kHz - 150kHz	Peak; Average	200Hz	100Hz	50ms	ESCS 30
150kHz - 30MHz	Peak; Average	9kHz	4.5kHz	10ms	ESCS 30



11 of 48

Final Measurement Detector 1

Frequency (MHz)	Quasi-Peak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.009100	56.1	1000.000	0.200	N
0.078800	60.5	1000.000	0.200	N
0.510000	42.7	1000.000	9.000	N
1.530000	42.6	1000.000	9.000	N
2.790000	40.6	1000.000	9.000	N
24.920000	43.1	1000.000	9.000	N

(continuation of the "Final Measurement Detector 1" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.009100	10.1	53.9	110.0	
0.078800	10.0	25.4	85.9	
0.510000	10.1	13.3	56.0	
1.530000	10.1	13.4	56.0	
2.790000	10.2	15.4	56.0	
24.920000	11.5	16.9	60.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.515000	31.2	1000.000	9.000	N
0.590000	32.2	1000.000	9.000	N
2.950000	29.5	1000.000	9.000	N
7.825000	34.3	1000.000	9.000	N

(continuation of the "Final Measurement Detector 2" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.515000	10.1	14.8	46.0	
0.590000	10.1	13.8	46.0	
2.950000	10.2	16.5	46.0	
7.825000	10.5	15.7	50.0	

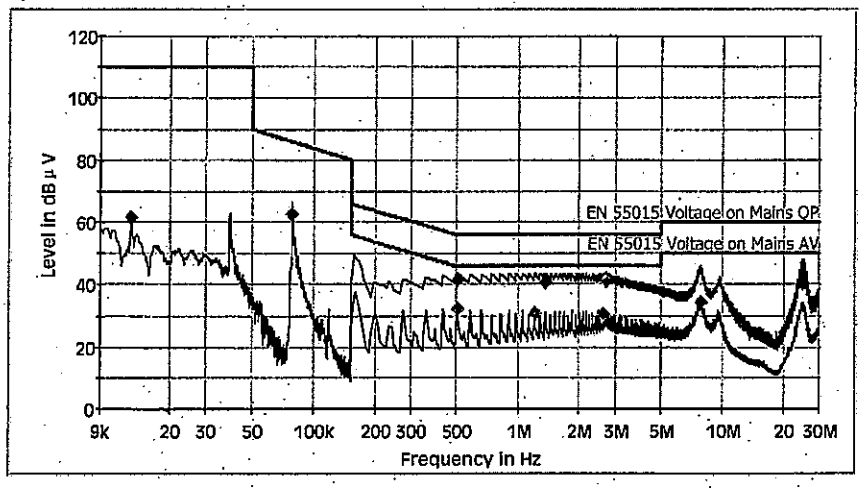
12 of 48

EMC32 Report

Test Information

EUT Name:	Electronic convertor
Model/Type:	~~EET150L1~~ EET150 LK
Operating Conditions:	Eaglerise
Comment:	AC 240V 50Hz, L
Hardware Setup:	1phase LISN ESH3-Z5 to ESCS30
Level Unit:	dB µ V

Subrange	Detectors	IF Bandwidth	Step Size	Meas. Time	Receiver
9kHz - 150kHz	Peak; ~~Average~~	200Hz	100Hz	50ms	ESCS 30
150kHz - 30MHz	Peak; Average	9kHz	4.5kHz	10ms	ESCS 30



13 of 18

Final Measurement Detector 1

Frequency (MHz)	Quasi-Peak (dB µV)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.012800	61.7	1000.000	0.200	L
0.078500	62.6	1000.000	0.200	L
0.510000	41.9	1000.000	9.000	L
1.380000	40.8	1000.000	9.000	L
2.705000	41.1	1000.000	9.000	L
24.955000	40.0	1000.000	9.000	L

(continuation of the "Final Measurement Detector 1" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dB µV)	Comment
0.012800	10.1	48.3	110.0	
0.078500	10.0	23.3	85.9	
0.510000	10.1	14.1	56.0	
1.380000	10.2	15.2	56.0	
2.705000	10.2	14.9	56.0	
24.955000	11.5	20.0	60.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dB µV)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.510000	32.1	1000.000	9.000	L
1.215000	31.0	1000.000	9.000	L
2.625000	30.4	1000.000	9.000	L
7.875000	34.0	1000.000	9.000	L

(continuation of the "Final Measurement Detector 2" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dB µV)	Comment
0.510000	10.1	13.9	46.0	
1.215000	10.1	15.0	46.0	
2.625000	10.2	15.6	46.0	
7.875000	10.5	16.0	50.0	

15 of 48

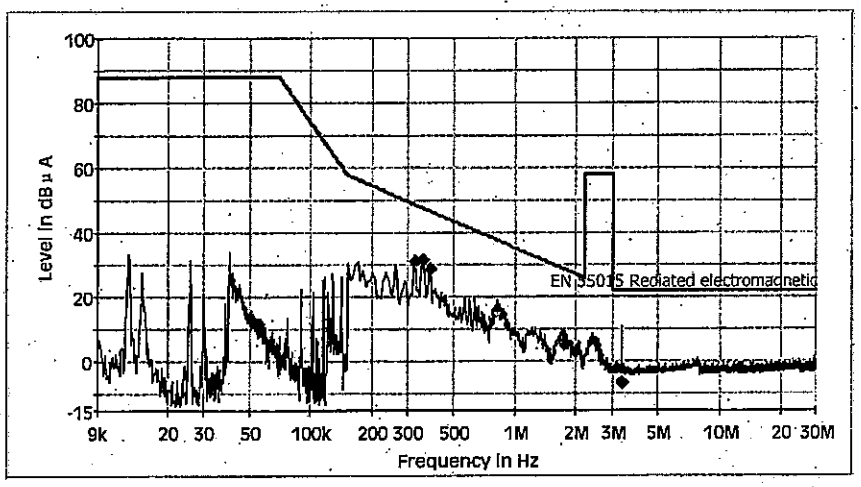
EMC32 Report

Test Information

EUT Name:	Electronic convertor
Model/Type:	~~EET150LT~~ EET150LK
Operating Conditions:	Eaglerise
Comment:	AC 240V, 50Hz, A1
Hardware Setup:	Loop Antenna to ESCS30
Level Unit:	dB µ A

Subrange	Detectors	IF Bandwidth	Step Size	Meas. Time	Receiver
9kHz - 150kHz	Peak	200Hz	100Hz	50ms	ESCS 30
150kHz - 30MHz	Peak	9kHz	4.5kHz	10ms	ESCS 30

EN 55015 2m loop antenna



2008.6.24 Checked

16 of 48

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµA)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB)	Margin (dB)
0.325000	31.0	1000.000	9.000	0.0	17.8
0.355000	31.7	1000.000	9.000	0.0	16.0
0.385000	28.6	1000.000	9.000	0.1	18.2
0.820000	15.7	1000.000	9.000	0.0	22.1
1.770000	5.4	1000.000	9.000	0.2	23.2
3.325000	-6.2	1000.000	9.000	0.2	28.2

(continuation of the "Final Measurement Detector 1" table from column 6 ...)

Frequency (MHz)	Limit (dBµA)	Comment
0.325000	48.8	
0.355000	47.7	
0.385000	46.8	
0.820000	37.8	
1.770000	28.6	
3.325000	22.0	

2008-6-13 Checked

2008-6-13 Checked

17 of 48

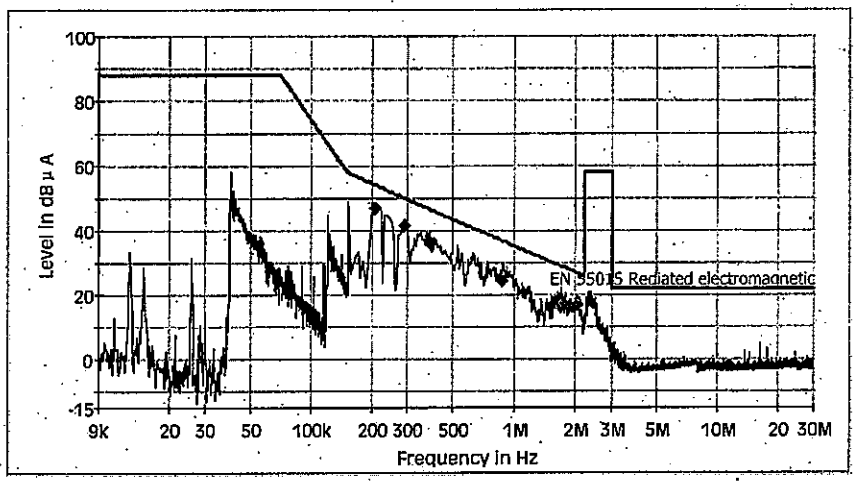
EMC32 Report

Test Information

EUT Name:	Electronic convertor
Model/Type:	~~EET150LF~~ EET150LK
Operating Conditions:	Eaglerise
Comment:	AC 240V, 50Hz, A2
Hardware Setup:	Loop Antenna to ESCS30
Level Unit:	dB µ A

Subrange	Detectors	IF Bandwidth	Step Size	Meas. Time	Receiver
9kHz - 150kHz	Peak	200Hz	100Hz	50ms	ESCS 30
150kHz - 30MHz	Peak	9kHz	4.5kHz	10ms	ESCS 30

EN 55015 2m loop antenna



HCE 2008.6.19 Checked

18 of 48

Final Measurement Detector 1

Frequency (MHz)	Quasi-Peak (dBµA)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB)	Margin (dB)
0.205000	46.9	1000.000	9.000	0.1	7.4
0.290000	41.5	1000.000	9.000	0.0	8.6
0.385000	36.4	1000.000	9.000	0.1	10.4
0.875000	24.2	1000.000	9.000	0.0	12.8
1.700000	16.4	1000.000	9.000	0.2	12.7
2.030000	16.8	1000.000	9.000	0.1	10.2

(continuation of the "Final Measurement Detector 1" table from column 6 ...)

Frequency (MHz)	Limit (dBµA)	Comment
0.205000	54.3	
0.290000	50.1	
0.385000	46.8	
0.875000	37.0	
1.700000	29.1	
2.030000	27.0	

9 of 48

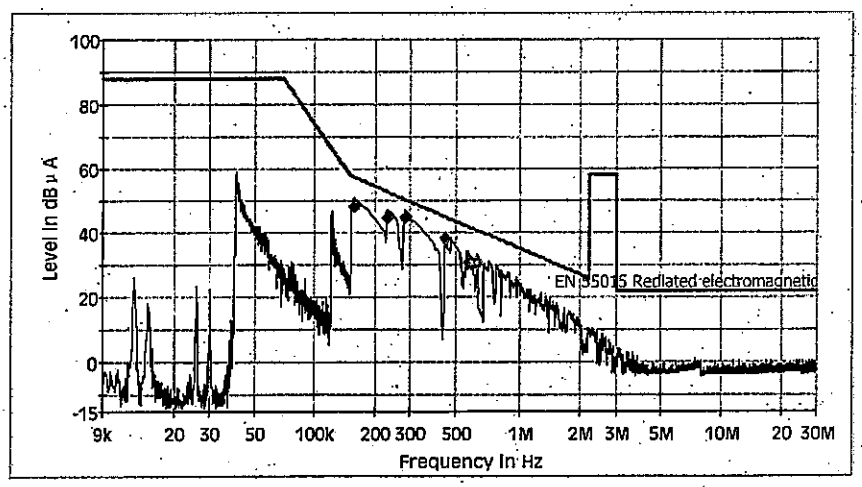
EMC32 Report

Test Information

EUT Name:	Electronic convertor
Model/Type:	~~EET150LT~~ EET1 to LK
Operating Conditions:	Eaglerise
Comment:	AC 240V, 50Hz, A3
Hardware Setup:	Loop Antenna to ESCS30
Level Unit:	dBµA

Subrange	Detectors	IF Bandwidth	Step Size	Meas. Time	Receiver
9kHz - 150kHz	Peak	200Hz	100Hz	50ms	ESCS 30
150kHz - 30MHz	Peak	9kHz	4.5kHz	10ms	ESCS 30

EN 55015 2m loop antenna



20 of 48

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµA)	Meas.Time (ms)	Bandwidth (kHz)	Corr. (dB)	Margin (dB)
0.155000	48.1	1000.000	9.000	0.0	9.5
0.230000	44.9	1000.000	9.000	0.1	8.0
0.285000	44.7	1000.000	9.000	0.0	5.6
0.445000	38.4	1000.000	9.000	0.0	6.6
0.575000	30.5	1000.000	9.000	0.1	11.5
0.630000	30.4	1000.000	9.000	0.0	10.5

(continuation of the "Final Measurement Detector 1" table from column 6 ...)

Frequency (MHz)	Limit (dBµA)	Comment
0.155000	57.6	
0.230000	52.9	
0.285000	50.4	
0.445000	45.0	
0.575000	42.0	
0.630000	40.9	