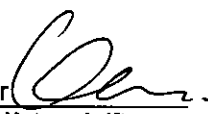



Produkte  
 Products

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<b>Auftraggeber:</b> <i>Client:</i>		Eaglerise Electric & Electronic (Foshan) Co., Ltd Guicheng Sci-Tech Industrial Park Jianping Road, Nanhai District Foshan, Guangdong, P.R. China			
<b>Gegenstand der Prüfung:</b> <i>Test item:</i>		Electronic Converter			
<b>Bezeichnung:</b> <i>Identification:</i>		EET150LT	EET105LT	<b>Serien-Nr.:</b> <i>Serial No.:</i>	Pre-production Model
		EET60LT	EET60LTD		
<b>Wareneingangs-Nr.:</b> <i>Receipt No.:</i>		173040283		<b>Eingangsdatum:</b> <i>Date of receipt:</i>	Sep. 25, 2008
<b>Prüfort:</b> <i>Testing location:</i>		Refer to section 2.1			
<b>Prüfgrundlage:</b> <i>Test specification:</i>		EN 55015:2006+A1 EN 61547:1995+A1 EN 61000-3-2:2006 EN 61000-3-3:1995+A1+A2			
<b>Prüfergebnis:</b> <i>Test Result:</i>		Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n). <i>The test item passed the test specification(s).</i>			
<b>Prüflaboratorium:</b> <i>Testing Laboratory:</i>		TÜV Rheinland (Guangdong) Ltd.			
<b>geprüft / tested by:</b>			<b>kontrolliert / reviewed by:</b>		
<i>Apr. 22. 2009</i>	Ken Kuang Project Engineer		<i>22. Apr. 2009</i>	Richard Lu Project Manager	
<i>Datum</i> Date	<i>Name/Stellung</i> Name/Position	<i>Unterschrift</i> Signature	<i>Datum</i> Date	<i>Name/Stellung</i> Name/Position	<i>Unterschrift</i> Signature
<b>Sonstiges / Other aspects:</b>					
<b>Abkürzungen:</b> P(ass) = entspricht Prüfgrundlage F(ail) = entspricht nicht Prüfgrundlage N/A = nicht anwendbar N/T = nicht getestet					
<b>Abbreviations:</b> P(ass) = passed F(ail) = failed N/A = not applicable N/T = not tested					
<b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b> <i>This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.</i>					

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## TEST SUMMARY

**4.1 HARMONICS CURRENT EMISSION ON AC MAINS***RESULT: Pass***4.2 TERMINAL CONTINUOUS DISTURBANCE VOLTAGE***RESULT: Pass***4.3 RADIATED EMISSION(30MHZ TO 300MHZ)***RESULT: Pass*

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## 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

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## 2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Test Equipment	Model	Manufacturer	Serial No.	Cal Until
<b>TÜV Rheinland (Guangdong) Ltd. EMC Laboratory</b>				
<b>Harmonics &amp; Flicker</b>				<input checked="" type="checkbox"/>
Harmonic and Flicker Analyzer	DPA 500	EM TEST	0304-01	16.Mar.2010
AC Source	ACS 500	EM TEST	0304-01	16.Mar.2010
<b>Disturbance Voltage</b>				<input checked="" type="checkbox"/>
EMI Test Receiver	ESCS30	Rohde&Schwarz	100316	16.Mar.2010
Artificial Mains Network	ESH2-Z5	Rohde&Schwarz	100114	16.Mar.2010
Two-Line V-Network	ESH3-Z5	Rohde&Schwarz	100308	16.Mar.2010
Pulse Limiter	ESH3-Z2	Rohde&Schwarz	100701	16.Mar.2010
<b>Discontinuous Disturbance Voltage</b>				<input type="checkbox"/>
Click Analyzer	DIA1512D	SCHNAFFNER	21081	14.Sep.2008
Artificial Mains Network	ESH2-Z5	Rohde&Schwarz	100114	27.Mar.2009
<b>Disturbance Power</b>				<input type="checkbox"/>
EMI Test Receiver	ESCS30	Rohde&Schwarz	100316	27.Mar.2009
Absorbing Clamp	MDS-21	Rohde&Schwarz	100144	11.Dec.2008

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<b>Radiated Emission</b> <input checked="" type="checkbox"/>				
EMI Test Receiver	Rohde&Schwarz	ESCI-3	100216	26.Nov.2009
Spectrum Analyzer	Rohde&Schwarz	FSP30	100286	24.Aug.2009
Double-Ridged Waveguide Horn Antenna	Rohde & Schwarz	HF906	100385	18.Jul.2009
Trilog-Broadband Antenna	Schwarzbeckmess-elektronik	VULB9168	209	07.Nov.2009
<b>Electrostatic Discharge(ESD)</b> <input type="checkbox"/>				
ESD Simulator	NSG438	SCHNAFFNER	533	01.Apr.2009
<b>Radiated Susceptibility</b> <input type="checkbox"/>				
Signal Generator	Rohde & Schwarz	SMR27	100125	27.Apr.2009
Power Amplifier	Amplifier Research	250W1000A	0320145	02.Apr.2009
Power Amplifier	Amplifier Research	50S1G4A	0320437	02.Apr.2009
Dual Channel Power Meter	Rohde & Schwarz	NVRD	101432	26.Nov.2009
Field Probe	Amplifier Research	FP5080 Kit	310947	07.Feb.2009
Log-Periodic Antenna	Amplifier Research	AT1080	0320070	N/A
Horn Antenna	Amplifier Research	AT4002	312778	N/A
<b>Electrical Fast Transient(EFT)</b> <input type="checkbox"/>				
EMC Immunity Test Instrument	BEST EMC V2.3	SCHNAFFNER	20103-006SC	27.Mar.2009
Ultra Compact Simulator	UCS 500 M4	EM TEST	V0707102252	02.Jun.2009
<b>Surge</b> <input type="checkbox"/>				
EMC Immunity Test Instrument	BEST EMC V2.3	SCHNAFFNER	20103-006SC	27.Mar.2009
Ultra Compact Simulator	UCS 500 M4	EM TEST	V0707102252	02.Jun.2009

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**Conducted Susceptibility (150kHz-230MHz)/(150kHz-80MHz)**


Continuous Wave Simulator	CWS500C	EM TEST	0404-04	27.Mar.2009
6 dB Attenuator	ATT 6	EM TEST	0402-07	02.Apr.2009
Coupling Decoupling Network	CDN-M2/M3	EM TEST	0604-02	02.Apr.2009
EM Clamp	EM 101	EM TEST	35697	07.Jun.2009

**Voltage Dips and Interruptions**


EMC Immunity Test Instrument	BEST EMC V2.3	SCHNAFFNER	20103-006SC	27.Mar.2009
Ultra Compact Simulator	UCS 500 M4	EM TEST	V0707102252	02.Jun.2009

**Power-frequency Magnetic Fields(PFM)**


Magnetic Field Coil	EM TEST	MS 100	1206-36	02.Jun.2009
Ultra Compact Simulator	UCS 500 M4	EM TEST	V0707102252	02.Jun.2009

 : **Not Used**
 : **Used**

### 3. General Product Information

#### 3.1 Replacement of standard

The standard EN 55015:2000+A1+A2 is replaced by EN 55015:2006+A1.  
The standard EN 61000-3-2:2000+A2 is replaced by EN 61000-3-2:2006.  
The standard EN 61000-3-3:1995+A1 is replaced by EN 61000-3-3:1995+A1+A2.

#### 3.2 Modification Information

Parameters of some resistors in the circuit were changed. Refer to client's Modification declaration for detail.

Considering the different requirement in the new standards and the impact of modification, necessary tests shown below were carried out:

Model	Harmonic currents	Disturbance Voltage	Radiated emission(30MHz-300MHz)
EET150LT	P	P	P
EET105LT	P	P	P
EET60LT	P	N/T	P
EET60LTD	N/T	N/T	P

#### 3.3 Submitted Documents

Circuit diagram  
Parts list  
Modification declaration



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## 4. Necessary tests

### 4.1 Harmonics Current Emission on AC Mains

RESULT: Pass

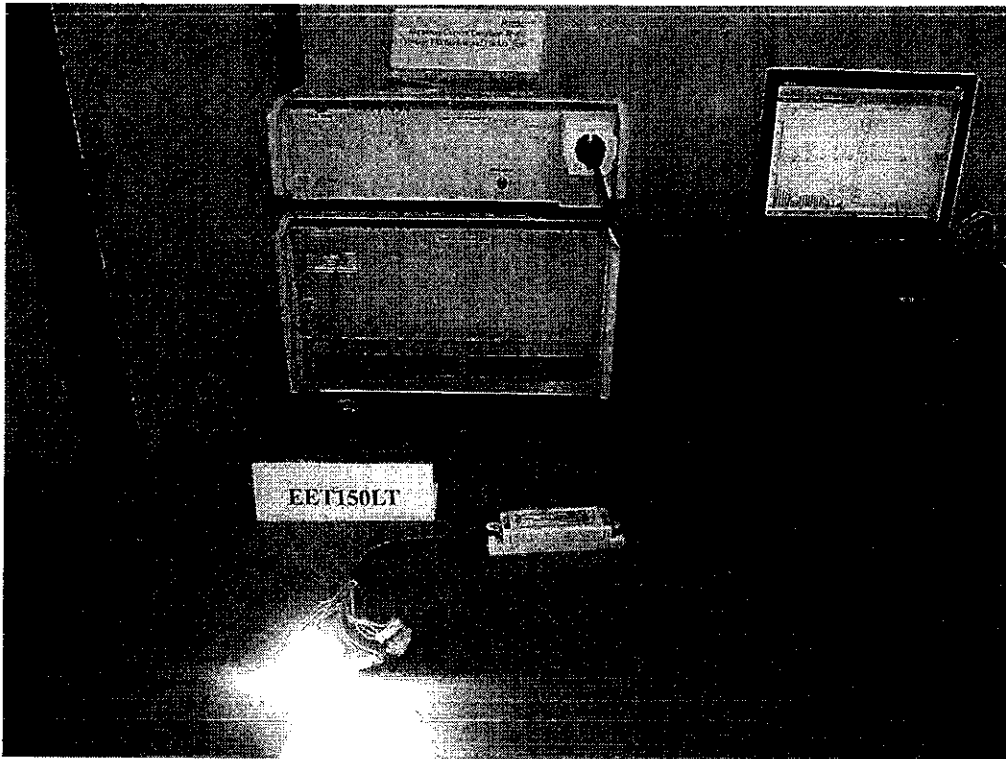
#### Test Specification

Basic standard : EN 61000-3-2:2006  
Measurement equipment requirement : IEC 61000-4-7:2002  
Measured harmonics : 1 – 40  
Equipment class : A  
Limits : Clause 7.1, Tabel 2, Table 3

#### Test Setup

Date of testing : 2008/10/8  
Input voltage : AC 230V, 50Hz  
Operation mode : On with rated load  
EET150LT(50W, 150W)  
EET105LT(35W, 105W)  
EET60LT(20W, 60W)  
Test observation period : 10min  
Temperature : 21°C  
Humidity : 50%  
Air pressure : 101kPA

**Photograph 1: Set-up for Harmonics Current Emission on AC Mains**



Note: Other models' setup is similar to this one.

### Test Result

For the measurement, refer to the appendix 1.

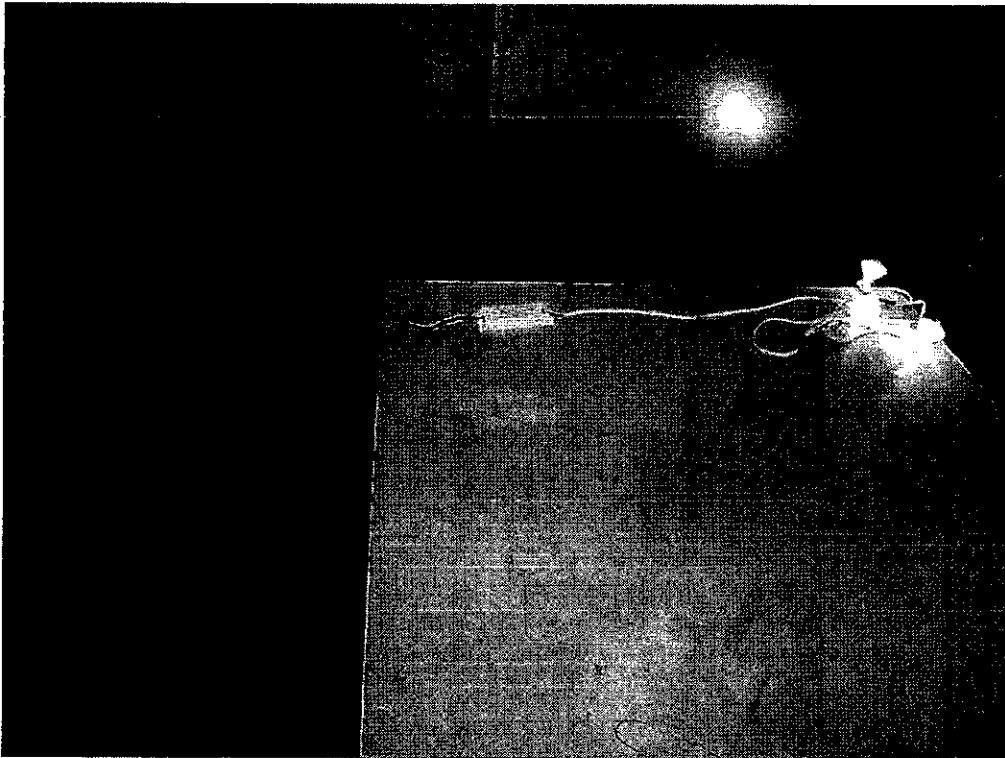
## 4.2 Terminal Continuous Disturbance Voltage

**RESULT:****Pass****Test Specification**

Test procedure	:	EN 55015:2006+A1, Clause 8
Port	:	AC Mains
Frequency range of Mains	:	9kHz-30MHz
Test site	:	Shielded Room
Limits	:	EN 55015:2006+A1, Clause 4.3.1, Table 2a

**Test Setup**

Date of testing	:	2009/4/2
Input voltage	:	AC 230V, 50Hz
Operation mode	:	On with max load
Artificial hand	:	N/A
Test configuration	:	Table-top
Temperature	:	23°C
Humidity	:	65%
Air pressure	:	101kPA

**Photograph 2: Set-up for Terminal Continuous Disturbance Voltage**

Note: All models' setup is similar to this one.

**Test Result**

Measurement uncertainty:  $\pm 2.58\text{dB}$  ( $k=2$ ,  $\sigma=95\%$ )

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 the attached appendix 1.

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### 4.3 Radiated Emission(30MHz to 300MHz)

RESULT:

Pass

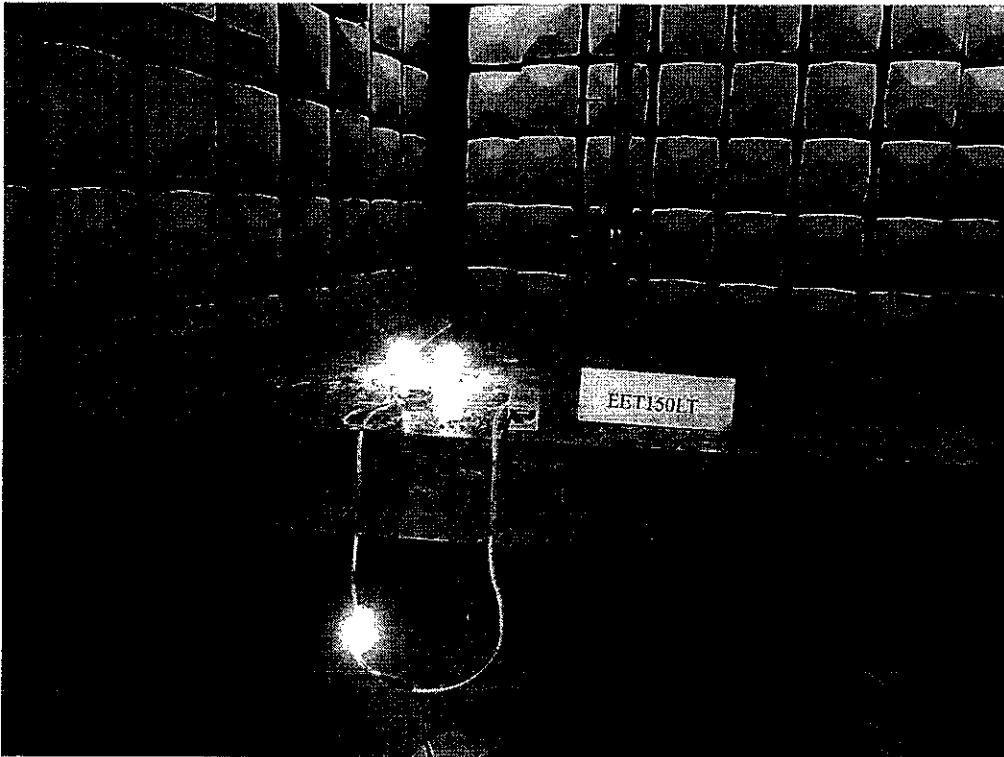
#### Test Specification

Test procedure : EN 55015:2006+A1, Clause 9  
Port : Enclosure  
Frequency range : 30MHz -300MHz  
Test site : 3m SAC  
Limits : EN 55015:2006+A1, Clause 4.4, Table 3b

#### Test Setup

Date of testing : 2009/4/2  
Input voltage : AC 230V,50Hz  
Operation mode : ON with max load  
Temperature : 23°C  
Humidity : 65%  
Air pressure : 101kPA

**Photograph 3: Set-up for Radiated Emission(30MHz to 300MHz)**



Note: Other models' setup is similar to this one.

**Test Result**

Measurement uncertainty:  $\pm 4.88\text{dB}$  ( $k=2$ ,  $\sigma= 95\%$ )

Refer to the attached appendix 1.

## 5. List of Tables

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## 6. List of Photographs

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Photograph 2: Set-up for Terminal Continuous Disturbance Voltage .....	12
Photograph 3: Set-up for Radiated Emission(30MHz to 300MHz) .....	14

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## Test Report

Report title:	
Company Name:	
Date of test:	14:04 8.Okt 2008
Measurement file name:	20081008 Electronic convertor EET150LT(150W) Har.rsd
Tester:	HCH
Standard used:	EN/IEC 61000-3-2 Ed.3 Quasi-stationary Equipment class C
Observation time:	150s
Windows width:	10 periods - (EN/IEC 61000-4-7 Edition 2002)
Customer:	
E. U. T.:	EET150LT (load 150W)
Measurement smoothed data:	Fund. Current: 0.627 A Power Factor : 0.996

Test Result	
E. U. T.:	PASS
Power Source:	PASS

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
(Sign)



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E. U. T. Result

~~Check harmonics 2-40 [exception-odd 21-39]~~

Harmonic(s) > 150%:	
Order (n):	None
Harmonic(s) with average > 100%:	
Order (n):	None

~~Check odd harmonics 21-39~~

All Partial Odd Harmonics below partial limits.	
Harmonic(s) > 150%:	
Order (n):	None
Harmonic(s) with average > 150%:	
Order (n):	None

Power Source Result

First dataset out of limit:	
DS (time):	None
Harmonic(s) out of limit:	
Order (n):	None



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Average harmonic current results				
Hn	I <sub>eff</sub> [A]	I <sub>eff</sub> [%]	Limit [%]	Result
1	622.825E-3	99.259		
2	629.608E-6	0.100	2.00	PASS
3	18.622E-3	2.968	29.88	PASS
4	1.040E-3	0.166		PASS
5	20.516E-3	3.270	10.00	PASS
6	709.788E-6	0.113		PASS
7	20.164E-3	3.214	7.00	PASS
8	631.381E-6	0.101		PASS
9	17.511E-3	2.791	5.00	PASS
10	655.443E-6	0.104		PASS
11	14.359E-3	2.288	3.00	PASS
12	613.160E-6	0.098		PASS
13	11.856E-3	1.889	3.00	PASS
14	1.033E-3	0.165		PASS
15	9.681E-3	1.543	3.00	PASS
16	630.793E-6	0.101		PASS
17	7.610E-3	1.213	3.00	PASS
18	987.983E-6	0.157		PASS
19	6.797E-3	1.083	3.00	PASS
20	647.637E-6	0.103		PASS
21	6.802E-3	1.084	4.50	PASS
22	661.456E-6	0.105		PASS
23	6.705E-3	1.069	4.50	PASS
24	687.523E-6	0.110		PASS
25	5.967E-3	0.951	4.50	PASS
26	671.564E-6	0.107		PASS
27	5.351E-3	0.853	4.50	PASS
28	840.175E-6	0.134		PASS
29	4.766E-3	0.759	4.50	PASS
30	646.732E-6	0.103		PASS
31	4.096E-3	0.653	4.50	PASS
32	836.018E-6	0.133		PASS
33	3.221E-3	0.513	4.50	PASS
34	623.555E-6	0.099		PASS
35	2.951E-3	0.470	4.50	PASS
36	692.728E-6	0.110		PASS
37	3.599E-3	0.574	4.50	PASS
38	714.087E-6	0.114		PASS
39	3.705E-3	0.590	4.50	PASS
40	731.043E-6	0.117		PASS

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Maximum harmonic current results				
Hn	I <sub>eff</sub> [A]	I <sub>eff</sub> [%]	Limit [%]	Result
1	627.476E-3	100.000		
2	715.695E-6	0.114	3.00	PASS
3	19.029E-3	3.033	44.82	PASS
4	1.284E-3	0.205		PASS
5	21.258E-3	3.388	15.00	PASS
6	858.701E-6	0.137		PASS
7	20.648E-3	3.291	10.50	PASS
8	782.875E-6	0.125		PASS
9	18.122E-3	2.888	7.50	PASS
10	808.783E-6	0.129		PASS
11	14.696E-3	2.342	4.50	PASS
12	690.297E-6	0.110		PASS
13	12.127E-3	1.933	4.50	PASS
14	1.159E-3	0.185		PASS
15	9.955E-3	1.586	4.50	PASS
16	739.302E-6	0.118		PASS
17	7.965E-3	1.269	4.50	PASS
18	1.126E-3	0.179		PASS
19	6.908E-3	1.101	4.50	PASS
20	787.178E-6	0.125		PASS
21	6.951E-3	1.108	4.50	PASS
22	850.565E-6	0.136		PASS
23	7.219E-3	1.151	4.50	PASS
24	876.152E-6	0.140		PASS
25	6.114E-3	0.974	4.50	PASS
26	789.439E-6	0.126		PASS
27	5.564E-3	0.887	4.50	PASS
28	946.548E-6	0.151		PASS
29	5.154E-3	0.821	4.50	PASS
30	842.156E-6	0.134		PASS
31	4.705E-3	0.750	4.50	PASS
32	1.008E-3	0.161		PASS
33	3.392E-3	0.541	4.50	PASS
34	762.506E-6	0.122		PASS
35	3.343E-3	0.533	4.50	PASS
36	820.441E-6	0.131		PASS
37	3.821E-3	0.609	4.50	PASS
38	849.042E-6	0.135		PASS
39	3.987E-3	0.635	4.50	PASS
40	931.306E-6	0.148		PASS

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**Maximum harmonic voltage results**

Hn	Ueff [V]	Ueff [%]	Limit [%]	Result
1	230.39	100.170		
2	78.84E-3	0.034	0.2	PASS
3	78.98E-3	0.034	0.9	PASS
4	32.51E-3	0.014	0.2	PASS
5	47.82E-3	0.021	0.4	PASS
6	18.63E-3	0.008	0.2	PASS
7	71.12E-3	0.031	0.3	PASS
8	16.44E-3	0.007	0.2	PASS
9	19.60E-3	0.009	0.2	PASS
10	12.28E-3	0.005	0.2	PASS
11	84.20E-3	0.037	0.1	PASS
12	13.34E-3	0.006	0.1	PASS
13	61.68E-3	0.027	0.1	PASS
14	19.09E-3	0.008	0.1	PASS
15	45.59E-3	0.020	0.1	PASS
16	15.75E-3	0.007	0.1	PASS
17	63.08E-3	0.027	0.1	PASS
18	14.38E-3	0.006	0.1	PASS
19	45.79E-3	0.020	0.1	PASS
20	18.86E-3	0.008	0.1	PASS
21	76.41E-3	0.033	0.1	PASS
22	15.36E-3	0.007	0.1	PASS
23	53.39E-3	0.023	0.1	PASS
24	15.80E-3	0.007	0.1	PASS
25	47.06E-3	0.020	0.1	PASS
26	13.14E-3	0.006	0.1	PASS
27	57.06E-3	0.025	0.1	PASS
28	13.37E-3	0.006	0.1	PASS
29	37.89E-3	0.016	0.1	PASS
30	12.76E-3	0.006	0.1	PASS
31	59.71E-3	0.026	0.1	PASS
32	14.04E-3	0.006	0.1	PASS
33	22.77E-3	0.010	0.1	PASS
34	12.10E-3	0.005	0.1	PASS
35	43.36E-3	0.019	0.1	PASS
36	13.97E-3	0.006	0.1	PASS
37	22.57E-3	0.010	0.1	PASS
38	16.89E-3	0.007	0.1	PASS
39	38.90E-3	0.017	0.1	PASS
40	13.76E-3	0.006	0.1	PASS

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Harmonic current results (DS: 50)				
Hn	I <sub>eff</sub> [A]	I <sub>eff</sub> [%]	Limit [%]	Result
1	626.940E-3	99.915		
2	651.531E-6	0.104	2.00	PASS
3	18.248E-3	2.908	29.88	PASS
4	1.174E-3	0.187		PASS
5	20.114E-3	3.205	10.00	PASS
6	732.897E-6	0.117		PASS
7	19.614E-3	3.126	7.00	PASS
8	681.157E-6	0.109		PASS
9	17.103E-3	2.726	5.00	PASS
10	745.971E-6	0.119		PASS
11	14.601E-3	2.327	3.00	PASS
12	612.334E-6	0.098		PASS
13	11.838E-3	1.887	3.00	PASS
14	1.122E-3	0.179		PASS
15	9.829E-3	1.566	3.00	PASS
16	595.905E-6	0.095		PASS
17	7.369E-3	1.174	3.00	PASS
18	1.038E-3	0.165		PASS
19	6.781E-3	1.081	3.00	PASS
20	684.080E-6	0.109		PASS
21	6.802E-3	1.084	3.00	PASS
22	705.615E-6	0.112		PASS
23	6.396E-3	1.019	3.00	PASS
24	683.543E-6	0.109		PASS
25	5.917E-3	0.943	3.00	PASS
26	574.959E-6	0.092		PASS
27	5.451E-3	0.869	3.00	PASS
28	855.160E-6	0.136		PASS
29	5.079E-3	0.809	3.00	PASS
30	596.884E-6	0.095		PASS
31	4.660E-3	0.743	3.00	PASS
32	927.095E-6	0.148		PASS
33	3.380E-3	0.539	3.00	PASS
34	612.036E-6	0.098		PASS
35	2.962E-3	0.472	3.00	PASS
36	746.349E-6	0.119		PASS
37	3.187E-3	0.508	3.00	PASS
38	604.585E-6	0.096		PASS
39	3.627E-3	0.578	3.00	PASS
40	816.889E-6	0.130		PASS

Caution: Results related to the 100% limit values

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**Harmonic voltage results - DS-50**

Hn	Ueff [V]	Ueff [%]	Limit [%]	Result
1	230.37	100.163		
2	60.89E-3	0.026	0.2	PASS
3	77.62E-3	0.034	0.9	PASS
4	15.60E-3	0.007	0.2	PASS
5	21.29E-3	0.009	0.4	PASS
6	7.07E-3	0.003	0.2	PASS
7	62.46E-3	0.027	0.3	PASS
8	2.89E-3	0.001	0.2	PASS
9	1.89E-3	0.001	0.2	PASS
10	3.91E-3	0.002	0.2	PASS
11	75.55E-3	0.033	0.1	PASS
12	3.99E-3	0.002	0.1	PASS
13	53.50E-3	0.023	0.1	PASS
14	11.73E-3	0.005	0.1	PASS
15	33.32E-3	0.014	0.1	PASS
16	10.66E-3	0.005	0.1	PASS
17	49.91E-3	0.022	0.1	PASS
18	5.73E-3	0.002	0.1	PASS
19	12.16E-3	0.005	0.1	PASS
20	4.30E-3	0.002	0.1	PASS
21	63.62E-3	0.028	0.1	PASS
22	5.36E-3	0.002	0.1	PASS
23	30.72E-3	0.013	0.1	PASS
24	3.61E-3	0.002	0.1	PASS
25	26.80E-3	0.012	0.1	PASS
26	6.58E-3	0.003	0.1	PASS
27	23.85E-3	0.010	0.1	PASS
28	4.84E-3	0.002	0.1	PASS
29	28.51E-3	0.012	0.1	PASS
30	5.25E-3	0.002	0.1	PASS
31	43.36E-3	0.019	0.1	PASS
32	8.73E-3	0.004	0.1	PASS
33	13.63E-3	0.006	0.1	PASS
34	3.14E-3	0.001	0.1	PASS
35	34.08E-3	0.015	0.1	PASS
36	6.70E-3	0.003	0.1	PASS
37	9.88E-3	0.004	0.1	PASS
38	9.13E-3	0.004	0.1	PASS
39	32.46E-3	0.014	0.1	PASS
40	2.96E-3	0.001	0.1	PASS

**Power and THD results - DS-50**

True power P:	144.3W	Apparent power S:	144.8VA
Reactiv power Q:	12.94var	Power factor:	0.996
THD (U):	0.001	THD (I):	0.076
Crest Factor (U):	1.414	Crest Factor (I):	1.404

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## Test Report

Report title:	
Company Name:	
Date of test:	13:44 8.Okt 2008
Measurement file name:	20081008 Electronic convertor EET150LT(50W) Har.rsd
Tester:	HCH
Standard used:	EN/IEC 61000-3-2 Ed.3 Quasi-stationary Equipment class C
Observation time:	150s
Windows width:	10 periods - (EN/IEC 61000-4-7 Edition 2002)
Customer:	
E. U. T.:	EET150LT (load 50W)
Measurement smoothed data:	Fund. Current: 0.228 A Power Factor : 0.981

Test Result	
E. U. T.:	PASS
Power Source:	PASS

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(Date)

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(Sign)

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E. U. T. Result

~~Check harmonics 2-40 [exception odd 21-39]~~

<b>Harmonic(s) &gt; 150%:</b>	
Order (n):	None
<b>Harmonic(s) with average &gt; 100%:</b>	
Order (n):	None

~~Check odd harmonics 21-39~~

<b>All Partial Odd Harmonics below partial limits.</b>	
<b>Harmonic(s) &gt; 150%:</b>	
Order (n):	None
<b>Harmonic(s) with average &gt; 150%:</b>	
Order (n):	None

Power Source Result

<b>First dataset out of limit:</b>	
DS (time):	None
<b>Harmonic(s) out of limit:</b>	
Order (n):	None



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**Average harmonic current results**

Hn	I <sub>eff</sub> [A]	I <sub>eff</sub> [%]	Limit [%]	Result
1	227.549E-3	99.691		
2	629.051E-6	0.276	2.00	PASS
3	11.173E-3	4.895	29.44	PASS
4	1.283E-3	0.562		PASS
5	9.903E-3	4.338	10.00	PASS
6	649.174E-6	0.284		PASS
7	7.601E-3	3.330	7.00	PASS
8	706.292E-6	0.309		PASS
9	5.668E-3	2.483	5.00	PASS
10	742.960E-6	0.325		PASS
11	3.502E-3	1.534	3.00	PASS
12	662.458E-6	0.290		PASS
13	2.300E-3	1.008	3.00	PASS
14	1.017E-3	0.446		PASS
15	1.202E-3	0.527	3.00	PASS
16	631.643E-6	0.277		PASS
17	1.241E-3	0.544	3.00	PASS
18	982.285E-6	0.430		PASS
19	2.373E-3	1.040	3.00	PASS
20	604.316E-6	0.265		PASS
21	2.947E-3	1.291	4.50	PASS
22	876.845E-6	0.384		PASS
23	2.669E-3	1.169	4.50	PASS
24	682.170E-6	0.299		PASS
25	2.586E-3	1.133	4.50	PASS
26	779.497E-6	0.342		PASS
27	2.632E-3	1.153	4.50	PASS
28	897.206E-6	0.393		PASS
29	2.265E-3	0.992	4.50	PASS
30	686.855E-6	0.301		PASS
31	1.695E-3	0.743	4.50	PASS
32	839.929E-6	0.368		PASS
33	2.025E-3	0.887	4.50	PASS
34	661.454E-6	0.290		PASS
35	1.951E-3	0.855	4.50	PASS
36	647.271E-6	0.284		PASS
37	1.723E-3	0.755	4.50	PASS
38	730.173E-6	0.320		PASS
39	1.209E-3	0.530	4.50	PASS
40	761.391E-6	0.334		PASS



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Maximum harmonic current results				
Hn	I <sub>eff</sub> [A]	I <sub>eff</sub> [%]	Limit [%]	Result
1	228.254E-3	100.000		
2	727.625E-6	0.319	3.00	PASS
3	11.471E-3	5.025	44.16	PASS
4	1.432E-3	0.627		PASS
5	10.422E-3	4.566	15.00	PASS
6	741.301E-6	0.325		PASS
7	7.731E-3	3.387	10.50	PASS
8	856.069E-6	0.375		PASS
9	5.807E-3	2.544	7.50	PASS
10	844.209E-6	0.370		PASS
11	3.661E-3	1.604	4.50	PASS
12	772.265E-6	0.338		PASS
13	2.384E-3	1.044	4.50	PASS
14	1.100E-3	0.482		PASS
15	1.314E-3	0.576	4.50	PASS
16	707.338E-6	0.310		PASS
17	1.432E-3	0.628	4.50	PASS
18	1.084E-3	0.475		PASS
19	2.663E-3	1.167	4.50	PASS
20	683.629E-6	0.300		PASS
21	3.074E-3	1.347	4.50	PASS
22	972.810E-6	0.426		PASS
23	2.934E-3	1.286	4.50	PASS
24	806.454E-6	0.353		PASS
25	2.786E-3	1.220	4.50	PASS
26	900.276E-6	0.394		PASS
27	2.751E-3	1.205	4.50	PASS
28	979.292E-6	0.429		PASS
29	2.434E-3	1.066	4.50	PASS
30	826.230E-6	0.362		PASS
31	1.806E-3	0.791	4.50	PASS
32	932.461E-6	0.409		PASS
33	2.154E-3	0.944	4.50	PASS
34	751.767E-6	0.329		PASS
35	2.087E-3	0.914	4.50	PASS
36	748.964E-6	0.328		PASS
37	1.908E-3	0.836	4.50	PASS
38	862.676E-6	0.378		PASS
39	1.374E-3	0.602	4.50	PASS
40	862.818E-6	0.378		PASS

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**Maximum harmonic voltage results**

Hn	Ueff [V]	Ueff [%]	Limit [%]	Result
1	230.43	100.185		
2	85.38E-3	0.037	0.2	PASS
3	79.97E-3	0.035	0.9	PASS
4	32.82E-3	0.014	0.2	PASS
5	44.96E-3	0.020	0.4	PASS
6	17.81E-3	0.008	0.2	PASS
7	73.03E-3	0.032	0.3	PASS
8	16.86E-3	0.007	0.2	PASS
9	25.60E-3	0.011	0.2	PASS
10	12.08E-3	0.005	0.2	PASS
11	75.34E-3	0.033	0.1	PASS
12	13.93E-3	0.006	0.1	PASS
13	69.08E-3	0.030	0.1	PASS
14	19.28E-3	0.008	0.1	PASS
15	37.03E-3	0.016	0.1	PASS
16	18.00E-3	0.008	0.1	PASS
17	70.17E-3	0.031	0.1	PASS
18	17.98E-3	0.008	0.1	PASS
19	46.87E-3	0.020	0.1	PASS
20	15.57E-3	0.007	0.1	PASS
21	48.54E-3	0.021	0.1	PASS
22	16.72E-3	0.007	0.1	PASS
23	49.65E-3	0.022	0.1	PASS
24	16.64E-3	0.007	0.1	PASS
25	41.02E-3	0.018	0.1	PASS
26	12.49E-3	0.005	0.1	PASS
27	62.64E-3	0.027	0.1	PASS
28	13.41E-3	0.006	0.1	PASS
29	27.98E-3	0.012	0.1	PASS
30	12.30E-3	0.005	0.1	PASS
31	44.95E-3	0.020	0.1	PASS
32	14.70E-3	0.006	0.1	PASS
33	21.99E-3	0.010	0.1	PASS
34	11.14E-3	0.005	0.1	PASS
35	49.75E-3	0.022	0.1	PASS
36	12.84E-3	0.006	0.1	PASS
37	35.66E-3	0.016	0.1	PASS
38	16.16E-3	0.007	0.1	PASS
39	31.48E-3	0.014	0.1	PASS
40	10.86E-3	0.005	0.1	PASS

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Harmonic current results DS 100				
Hn	I <sub>eff</sub> [A]	I <sub>eff</sub> [%]	Limit [%]	Result
1	227.579E-3	99.704		
2	680.016E-6	0.298	2.00	PASS
3	11.068E-3	4.849	29.44	PASS
4	1.267E-3	0.555		PASS
5	9.965E-3	4.366	10.00	PASS
6	614.541E-6	0.269		PASS
7	7.543E-3	3.305	7.00	PASS
8	725.040E-6	0.318		PASS
9	5.703E-3	2.499	5.00	PASS
10	784.344E-6	0.344		PASS
11	3.593E-3	1.574	3.00	PASS
12	653.013E-6	0.286		PASS
13	2.384E-3	1.044	3.00	PASS
14	944.111E-6	0.414		PASS
15	1.203E-3	0.527	3.00	PASS
16	611.265E-6	0.268		PASS
17	1.085E-3	0.475	3.00	PASS
18	902.976E-6	0.396		PASS
19	2.235E-3	0.979	3.00	PASS
20	588.394E-6	0.258		PASS
21	2.852E-3	1.250	3.00	PASS
22	971.956E-6	0.426		PASS
23	2.296E-3	1.006	3.00	PASS
24	580.193E-6	0.254		PASS
25	2.554E-3	1.119	3.00	PASS
26	829.525E-6	0.363		PASS
27	2.561E-3	1.122	3.00	PASS
28	923.530E-6	0.405		PASS
29	2.188E-3	0.959	3.00	PASS
30	690.192E-6	0.302		PASS
31	1.691E-3	0.741	3.00	PASS
32	857.909E-6	0.376		PASS
33	1.969E-3	0.863	3.00	PASS
34	634.268E-6	0.278		PASS
35	1.941E-3	0.850	3.00	PASS
36	629.006E-6	0.276		PASS
37	1.697E-3	0.744	3.00	PASS
38	714.995E-6	0.313		PASS
39	1.243E-3	0.545	3.00	PASS
40	716.450E-6	0.314		PASS

Caution: Results related to the 100% limit values

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**Harmonic voltage results - DS 100**

Hn	Ueff [V]	Ueff [%]	Limit [%]	Result
1	230.39	100.171		
2	65.99E-3	0.029	0.2	PASS
3	73.11E-3	0.032	0.9	PASS
4	30.87E-3	0.013	0.2	PASS
5	41.63E-3	0.018	0.4	PASS
6	9.40E-3	0.004	0.2	PASS
7	62.38E-3	0.027	0.3	PASS
8	11.62E-3	0.005	0.2	PASS
9	3.74E-3	0.002	0.2	PASS
10	7.56E-3	0.003	0.2	PASS
11	69.80E-3	0.030	0.1	PASS
12	2.56E-3	0.001	0.1	PASS
13	61.35E-3	0.027	0.1	PASS
14	14.69E-3	0.006	0.1	PASS
15	34.88E-3	0.015	0.1	PASS
16	1.47E-3	0.001	0.1	PASS
17	64.36E-3	0.028	0.1	PASS
18	7.30E-3	0.003	0.1	PASS
19	19.38E-3	0.008	0.1	PASS
20	1.44E-3	0.001	0.1	PASS
21	45.40E-3	0.020	0.1	PASS
22	4.76E-3	0.002	0.1	PASS
23	26.70E-3	0.012	0.1	PASS
24	10.89E-3	0.005	0.1	PASS
25	29.10E-3	0.013	0.1	PASS
26	4.69E-3	0.002	0.1	PASS
27	48.31E-3	0.021	0.1	PASS
28	3.22E-3	0.001	0.1	PASS
29	7.61E-3	0.003	0.1	PASS
30	4.93E-3	0.002	0.1	PASS
31	29.36E-3	0.013	0.1	PASS
32	5.13E-3	0.002	0.1	PASS
33	2.85E-3	0.001	0.1	PASS
34	4.50E-3	0.002	0.1	PASS
35	33.90E-3	0.015	0.1	PASS
36	4.70E-3	0.002	0.1	PASS
37	30.17E-3	0.013	0.1	PASS
38	8.41E-3	0.004	0.1	PASS
39	18.44E-3	0.008	0.1	PASS
40	540.15E-6	0.000	0.1	PASS

**Power and THD results - DS 100**

True power P:	51.58W	Apparent power S:	52.61VA
Reactiv power Q:	10.36var	Power factor:	0.980
THD (U):	0.001	THD (I):	0.084
Crest Factor (U):	1.414	Crest Factor (I):	1.453



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Report title:	
Company Name:	
Date of test:	14:21 8.Okt 2008
Measurement file name:	20081008 Electronic convertor EET105LT(105W) Har.rsd
Tester:	HCH
Standard used:	EN/IEC 61000-3-2 Ed.3 Quasi-stationary Equipment class C
Observation time:	150s
Windows width:	10 periods - (EN/IEC 61000-4-7 Edition 2002)
Customer:	
E. U. T.:	EET 105LT (load 105W)
Measurement smoothed data:	Fund. Current: 0.438 A Power Factor : 0.996

Test Result	
E. U. T.:	PASS
Power Source:	PASS

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### E. U. T. Result

#### ~~Check harmonics 2-40 (exception odd 21-39)~~

Harmonic(s) > 150%:	
Order (n):	None
Harmonic(s) with average > 100%:	
Order (n):	None

#### ~~Check odd harmonics 2-1-39~~

All Partial Odd Harmonics below partial limits.	
Harmonic(s) > 150%:	
Order (n):	None
Harmonic(s) with average > 150%:	
Order (n):	None

### Power Source Result

First dataset out of limit:	
DS (time):	None
Harmonic(s) out of limit:	
Order (n):	None



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**Average harmonic current results**

Hn	I <sub>eff</sub> [A]	I <sub>eff</sub> [%]	Limit [%]	Result
1	436.895E-3	99.664		
2	739.208E-6	0.169	2.00	PASS
3	14.124E-3	3.222	29.89	PASS
4	1.077E-3	0.246		PASS
5	14.917E-3	3.403	10.00	PASS
6	674.115E-6	0.154		PASS
7	13.926E-3	3.177	7.00	PASS
8	722.241E-6	0.165		PASS
9	12.141E-3	2.770	5.00	PASS
10	678.523E-6	0.155		PASS
11	10.082E-3	2.300	3.00	PASS
12	696.107E-6	0.159		PASS
13	7.847E-3	1.790	3.00	PASS
14	973.969E-6	0.222		PASS
15	6.210E-3	1.417	3.00	PASS
16	678.211E-6	0.155		PASS
17	5.064E-3	1.155	3.00	PASS
18	935.544E-6	0.213		PASS
19	4.691E-3	1.070	3.00	PASS
20	640.728E-6	0.146		PASS
21	4.767E-3	1.088	4.50	PASS
22	639.861E-6	0.146		PASS
23	5.069E-3	1.156	4.50	PASS
24	705.015E-6	0.161		PASS
25	4.350E-3	0.992	4.50	PASS
26	660.777E-6	0.151		PASS
27	4.114E-3	0.939	4.50	PASS
28	942.564E-6	0.215		PASS
29	3.691E-3	0.842	4.50	PASS
30	715.667E-6	0.163		PASS
31	2.913E-3	0.665	4.50	PASS
32	838.924E-6	0.191		PASS
33	2.782E-3	0.635	4.50	PASS
34	621.044E-6	0.142		PASS
35	2.326E-3	0.531	4.50	PASS
36	698.732E-6	0.159		PASS
37	2.682E-3	0.612	4.50	PASS
38	643.639E-6	0.147		PASS
39	2.351E-3	0.536	4.50	PASS
40	667.151E-6	0.152		PASS



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Maximum harmonic current results				
Hn	I <sub>eff</sub> [A]	I <sub>eff</sub> [%]	Limit [%]	Result
1	438.368E-3	100.000		
2	832.019E-6	0.190	3.00	PASS
3	14.547E-3	3.318	44.83	PASS
4	1.301E-3	0.297		PASS
5	15.414E-3	3.516	15.00	PASS
6	773.511E-6	0.176		PASS
7	14.132E-3	3.224	10.50	PASS
8	791.907E-6	0.181		PASS
9	12.410E-3	2.831	7.50	PASS
10	760.506E-6	0.173		PASS
11	10.349E-3	2.361	4.50	PASS
12	778.265E-6	0.178		PASS
13	8.141E-3	1.857	4.50	PASS
14	1.097E-3	0.250		PASS
15	6.465E-3	1.475	4.50	PASS
16	786.541E-6	0.179		PASS
17	5.250E-3	1.198	4.50	PASS
18	1.012E-3	0.231		PASS
19	4.933E-3	1.125	4.50	PASS
20	757.001E-6	0.173		PASS
21	4.910E-3	1.120	4.50	PASS
22	724.498E-6	0.165		PASS
23	5.446E-3	1.242	4.50	PASS
24	793.136E-6	0.181		PASS
25	4.493E-3	1.025	4.50	PASS
26	753.625E-6	0.172		PASS
27	4.270E-3	0.974	4.50	PASS
28	1.057E-3	0.241		PASS
29	3.989E-3	0.910	4.50	PASS
30	856.453E-6	0.195		PASS
31	3.123E-3	0.712	4.50	PASS
32	939.453E-6	0.214		PASS
33	2.921E-3	0.666	4.50	PASS
34	729.858E-6	0.166		PASS
35	2.473E-3	0.564	4.50	PASS
36	833.173E-6	0.190		PASS
37	2.872E-3	0.655	4.50	PASS
38	768.361E-6	0.175		PASS
39	2.588E-3	0.590	4.50	PASS
40	755.127E-6	0.172		PASS

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Maximum harmonic voltage results				
Hn	Ueff [V]	Ueff [%]	Limit [%]	Result
1	230.42	100.181		
2	85.42E-3	0.037	0.2	PASS
3	80.66E-3	0.035	0.9	PASS
4	33.35E-3	0.015	0.2	PASS
5	48.26E-3	0.021	0.4	PASS
6	15.87E-3	0.007	0.2	PASS
7	71.04E-3	0.031	0.3	PASS
8	17.40E-3	0.008	0.2	PASS
9	23.40E-3	0.010	0.2	PASS
10	10.95E-3	0.005	0.2	PASS
11	78.90E-3	0.034	0.1	PASS
12	14.64E-3	0.006	0.1	PASS
13	66.11E-3	0.029	0.1	PASS
14	19.14E-3	0.008	0.1	PASS
15	38.29E-3	0.017	0.1	PASS
16	18.68E-3	0.008	0.1	PASS
17	69.95E-3	0.030	0.1	PASS
18	16.89E-3	0.007	0.1	PASS
19	50.74E-3	0.022	0.1	PASS
20	16.45E-3	0.007	0.1	PASS
21	64.49E-3	0.028	0.1	PASS
22	15.45E-3	0.007	0.1	PASS
23	61.30E-3	0.027	0.1	PASS
24	14.48E-3	0.006	0.1	PASS
25	36.10E-3	0.016	0.1	PASS
26	13.61E-3	0.006	0.1	PASS
27	61.74E-3	0.027	0.1	PASS
28	14.31E-3	0.006	0.1	PASS
29	28.11E-3	0.012	0.1	PASS
30	11.85E-3	0.005	0.1	PASS
31	55.36E-3	0.024	0.1	PASS
32	14.71E-3	0.006	0.1	PASS
33	30.52E-3	0.013	0.1	PASS
34	10.87E-3	0.005	0.1	PASS
35	45.58E-3	0.020	0.1	PASS
36	14.61E-3	0.006	0.1	PASS
37	31.70E-3	0.014	0.1	PASS
38	15.73E-3	0.007	0.1	PASS
39	34.60E-3	0.015	0.1	PASS
40	14.00E-3	0.006	0.1	PASS

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**Harmonic current results DS 50**

Hn	I <sub>eff</sub> [A]	I <sub>eff</sub> [%]	Limit [%]	Result
1	437.988E-3	99.913		
2	729.339E-6	0.166	2.00	PASS
3	13.898E-3	3.170	29.89	PASS
4	1.047E-3	0.239		PASS
5	14.552E-3	3.320	10.00	PASS
6	649.635E-6	0.148		PASS
7	13.775E-3	3.142	7.00	PASS
8	713.569E-6	0.163		PASS
9	12.023E-3	2.743	5.00	PASS
10	647.710E-6	0.148		PASS
11	9.991E-3	2.279	3.00	PASS
12	695.060E-6	0.159		PASS
13	8.031E-3	1.832	3.00	PASS
14	1.000E-3	0.228		PASS
15	6.222E-3	1.419	3.00	PASS
16	651.556E-6	0.149		PASS
17	4.985E-3	1.137	3.00	PASS
18	927.029E-6	0.211		PASS
19	4.618E-3	1.053	3.00	PASS
20	588.004E-6	0.134		PASS
21	4.829E-3	1.102	3.00	PASS
22	528.981E-6	0.121		PASS
23	5.051E-3	1.152	3.00	PASS
24	694.483E-6	0.158		PASS
25	4.353E-3	0.993	3.00	PASS
26	609.408E-6	0.139		PASS
27	4.188E-3	0.955	3.00	PASS
28	918.974E-6	0.210		PASS
29	3.908E-3	0.892	3.00	PASS
30	853.024E-6	0.195		PASS
31	3.055E-3	0.697	3.00	PASS
32	882.069E-6	0.201		PASS
33	2.703E-3	0.617	3.00	PASS
34	706.094E-6	0.161		PASS
35	2.342E-3	0.534	3.00	PASS
36	611.246E-6	0.139		PASS
37	2.451E-3	0.559	3.00	PASS
38	667.571E-6	0.152		PASS
39	2.243E-3	0.512	3.00	PASS
40	577.150E-6	0.132		PASS

Caution: Results related to the 100% limit values

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**Harmonic voltage results - DS: 50**

Hn	Ueff [V]	Ueff [%]	Limit [%]	Result
1	230.35	100.153		
2	62.50E-3	0.027	0.2	PASS
3	69.60E-3	0.030	0.9	PASS
4	6.58E-3	0.003	0.2	PASS
5	18.11E-3	0.008	0.4	PASS
6	7.72E-3	0.003	0.2	PASS
7	61.82E-3	0.027	0.3	PASS
8	14.86E-3	0.006	0.2	PASS
9	10.18E-3	0.004	0.2	PASS
10	6.00E-3	0.003	0.2	PASS
11	70.57E-3	0.031	0.1	PASS
12	9.14E-3	0.004	0.1	PASS
13	52.32E-3	0.023	0.1	PASS
14	4.23E-3	0.002	0.1	PASS
15	32.61E-3	0.014	0.1	PASS
16	10.17E-3	0.004	0.1	PASS
17	60.03E-3	0.026	0.1	PASS
18	10.21E-3	0.004	0.1	PASS
19	25.53E-3	0.011	0.1	PASS
20	2.55E-3	0.001	0.1	PASS
21	56.36E-3	0.025	0.1	PASS
22	9.58E-3	0.004	0.1	PASS
23	41.16E-3	0.018	0.1	PASS
24	2.77E-3	0.001	0.1	PASS
25	23.75E-3	0.010	0.1	PASS
26	7.69E-3	0.003	0.1	PASS
27	45.83E-3	0.020	0.1	PASS
28	3.16E-3	0.001	0.1	PASS
29	13.59E-3	0.006	0.1	PASS
30	8.18E-3	0.004	0.1	PASS
31	40.46E-3	0.018	0.1	PASS
32	1.70E-3	0.001	0.1	PASS
33	12.35E-3	0.005	0.1	PASS
34	1.81E-3	0.001	0.1	PASS
35	29.81E-3	0.013	0.1	PASS
36	4.86E-3	0.002	0.1	PASS
37	20.53E-3	0.009	0.1	PASS
38	13.26E-3	0.006	0.1	PASS
39	17.97E-3	0.008	0.1	PASS
40	2.01E-3	0.001	0.1	PASS

**Power and THD results - DS: 50**

True power P:	100.8W	Apparent power S:	101.2VA
Reactiv power Q:	8.655var	Power factor:	0.996
THD (U):	0.001	THD (I):	0.077
Crest Factor (U):	1.414	Crest Factor (I):	1.418



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## Test Report

Report title:	
Company Name:	
Date of test:	14:15 8.Okt 2008
Measurement file name:	20081008 Electronic convertor EET105LT(35W) Har.rsd
Tester:	HCH
Standard used:	EN/IEC 61000-3-2 Ed.3 Quasi-stationary Equipment class C
Observation time:	150s
Windows width:	10 periods - (EN/IEC 61000-4-7 Edition 2002)
Customer:	
E. U. T.:	EET105LT (load 35W)
Measurement smoothed data:	Fund. Current: 0.160 A Power Factor : 0.984

Test Result	
E. U. T.:	PASS
Power Source:	PASS

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(Date)

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(Sign)

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E. U. T. Result

~~Check harmonics 2-40 [exception odd 21-39]~~

Harmonic(s) > 150%:	
Order (n):	None
Harmonic(s) with average > 100%:	
Order (n):	None

~~Check odd harmonics 21-39~~

All Partial Odd Harmonics below partial limits.	
Harmonic(s) > 150%:	
Order (n):	None
Harmonic(s) with average > 150%:	
Order (n):	None

Power Source Result

First dataset out of limit:	
DS (time):	None
Harmonic(s) out of limit:	
Order (n):	None

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Average harmonic current results				
Hn	I <sub>eff</sub> [A]	I <sub>eff</sub> [%]	Limit [%]	Result
1	159.249E-3	99.655		
2	685.248E-6	0.429	2.00	PASS
3	7.518E-3	4.705	29.52	PASS
4	974.060E-6	0.610		PASS
5	7.275E-3	4.553	10.00	PASS
6	600.537E-6	0.376		PASS
7	5.726E-3	3.583	7.00	PASS
8	622.370E-6	0.389		PASS
9	5.179E-3	3.241	5.00	PASS
10	569.981E-6	0.357		PASS
11	3.922E-3	2.454	3.00	PASS
12	609.746E-6	0.382		PASS
13	2.703E-3	1.691	3.00	PASS
14	953.082E-6	0.596		PASS
15	2.405E-3	1.505	3.00	PASS
16	607.774E-6	0.380		PASS
17	1.424E-3	0.891	3.00	PASS
18	868.055E-6	0.543		PASS
19	1.115E-3	0.698	3.00	PASS
20	596.970E-6	0.374		PASS
21	1.160E-3	0.726	4.50	PASS
22	574.141E-6	0.359		PASS
23	1.456E-3	0.911	4.50	PASS
24	611.693E-6	0.383		PASS
25	1.050E-3	0.657	4.50	PASS
26	601.258E-6	0.376		PASS
27	885.747E-6	0.554	4.50	PASS
28	724.532E-6	0.453		PASS
29	908.869E-6	0.569	4.50	PASS
30	547.275E-6	0.342		PASS
31	793.166E-6	0.496	4.50	PASS
32	701.152E-6	0.439		PASS
33	724.003E-6	0.453	4.50	PASS
34	620.149E-6	0.388		PASS
35	633.728E-6	0.397	4.50	PASS
36	563.957E-6	0.353		PASS
37	792.905E-6	0.496	4.50	PASS
38	673.202E-6	0.421		PASS
39	792.318E-6	0.496	4.50	PASS
40	598.190E-6	0.374		PASS

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Maximum harmonic current results				
Hn	I <sub>eff</sub> [A]	I <sub>eff</sub> [%]	Limit [%]	Result
1	159.801E-3	100.000		
2	830.974E-6	0.520	3.00	PASS
3	7.706E-3	4.822	44.28	PASS
4	1.080E-3	0.676		PASS
5	7.565E-3	4.734	15.00	PASS
6	682.584E-6	0.427		PASS
7	5.820E-3	3.642	10.50	PASS
8	685.587E-6	0.429		PASS
9	5.323E-3	3.331	7.50	PASS
10	622.977E-6	0.390		PASS
11	4.003E-3	2.505	4.50	PASS
12	711.572E-6	0.445		PASS
13	2.825E-3	1.768	4.50	PASS
14	1.067E-3	0.668		PASS
15	2.502E-3	1.566	4.50	PASS
16	691.365E-6	0.433		PASS
17	1.505E-3	0.942	4.50	PASS
18	991.455E-6	0.620		PASS
19	1.194E-3	0.747	4.50	PASS
20	679.495E-6	0.425		PASS
21	1.257E-3	0.786	4.50	PASS
22	646.026E-6	0.404		PASS
23	1.692E-3	1.059	4.50	PASS
24	675.696E-6	0.423		PASS
25	1.175E-3	0.735	4.50	PASS
26	676.247E-6	0.423		PASS
27	1.044E-3	0.653	4.50	PASS
28	797.177E-6	0.499		PASS
29	1.080E-3	0.676	4.50	PASS
30	619.243E-6	0.388		PASS
31	978.951E-6	0.613	4.50	PASS
32	788.762E-6	0.494		PASS
33	810.731E-6	0.507	4.50	PASS
34	765.154E-6	0.479		PASS
35	724.667E-6	0.453	4.50	PASS
36	637.061E-6	0.399		PASS
37	935.136E-6	0.585	4.50	PASS
38	763.211E-6	0.478		PASS
39	951.890E-6	0.596	4.50	PASS
40	659.713E-6	0.413		PASS





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Maximum harmonic voltage results				
Hn	Ueff [V]	Ueff [%]	Limit [%]	Result
1	230.42	100.185		
2	86.00E-3	0.037	0.2	PASS
3	81.15E-3	0.035	0.9	PASS
4	33.59E-3	0.015	0.2	PASS
5	46.52E-3	0.020	0.4	PASS
6	16.71E-3	0.007	0.2	PASS
7	69.74E-3	0.030	0.3	PASS
8	16.54E-3	0.007	0.2	PASS
9	27.96E-3	0.012	0.2	PASS
10	11.40E-3	0.005	0.2	PASS
11	72.77E-3	0.032	0.1	PASS
12	13.55E-3	0.006	0.1	PASS
13	69.87E-3	0.030	0.1	PASS
14	23.75E-3	0.010	0.1	PASS
15	34.49E-3	0.015	0.1	PASS
16	22.49E-3	0.010	0.1	PASS
17	71.85E-3	0.031	0.1	PASS
18	16.60E-3	0.007	0.1	PASS
19	50.74E-3	0.022	0.1	PASS
20	13.97E-3	0.006	0.1	PASS
21	47.00E-3	0.020	0.1	PASS
22	18.55E-3	0.008	0.1	PASS
23	51.86E-3	0.023	0.1	PASS
24	16.46E-3	0.007	0.1	PASS
25	36.23E-3	0.016	0.1	PASS
26	13.99E-3	0.006	0.1	PASS
27	61.78E-3	0.027	0.1	PASS
28	13.31E-3	0.006	0.1	PASS
29	31.55E-3	0.014	0.1	PASS
30	11.59E-3	0.005	0.1	PASS
31	44.06E-3	0.019	0.1	PASS
32	14.10E-3	0.006	0.1	PASS
33	26.50E-3	0.012	0.1	PASS
34	13.22E-3	0.006	0.1	PASS
35	43.88E-3	0.019	0.1	PASS
36	12.32E-3	0.005	0.1	PASS
37	39.27E-3	0.017	0.1	PASS
38	17.57E-3	0.008	0.1	PASS
39	27.43E-3	0.012	0.1	PASS
40	13.25E-3	0.006	0.1	PASS

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**Harmonic current results DS-50**

Hn	I <sub>eff</sub> [A]	I <sub>eff</sub> [%]	Limit [%]	Result
1	158.370E-3	99.105		
2	633.904E-6	0.397	2.00	PASS
3	7.388E-3	4.623	29.52	PASS
4	897.143E-6	0.561		PASS
5	7.119E-3	4.455	10.00	PASS
6	578.433E-6	0.362		PASS
7	5.781E-3	3.618	7.00	PASS
8	627.298E-6	0.393		PASS
9	5.090E-3	3.185	5.00	PASS
10	598.916E-6	0.375		PASS
11	3.898E-3	2.439	3.00	PASS
12	596.397E-6	0.373		PASS
13	2.755E-3	1.724	3.00	PASS
14	844.999E-6	0.529		PASS
15	2.424E-3	1.517	3.00	PASS
16	576.569E-6	0.361		PASS
17	1.492E-3	0.934	3.00	PASS
18	839.486E-6	0.525		PASS
19	1.168E-3	0.731	3.00	PASS
20	605.698E-6	0.379		PASS
21	1.257E-3	0.786	3.00	PASS
22	583.682E-6	0.365		PASS
23	1.350E-3	0.845	3.00	PASS
24	583.960E-6	0.365		PASS
25	1.168E-3	0.731	3.00	PASS
26	607.290E-6	0.380		PASS
27	985.788E-6	0.617	3.00	PASS
28	774.085E-6	0.484		PASS
29	1.050E-3	0.657	3.00	PASS
30	566.555E-6	0.355		PASS
31	846.731E-6	0.530	3.00	PASS
32	738.815E-6	0.462		PASS
33	749.808E-6	0.469	3.00	PASS
34	666.121E-6	0.417		PASS
35	563.987E-6	0.353	3.00	PASS
36	583.547E-6	0.365		PASS
37	816.383E-6	0.511	3.00	PASS
38	653.584E-6	0.409		PASS
39	782.920E-6	0.490	3.00	PASS
40	581.503E-6	0.364		PASS

Caution: Results related to the 100% limit values

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Harmonic voltage results - DS-50				
Hn	Ueff [V]	Ueff [%]	Limit [%]	Result
1	230.35	100.154		
2	62.93E-3	0.027	0.2	PASS
3	61.73E-3	0.027	0.9	PASS
4	14.48E-3	0.006	0.2	PASS
5	32.05E-3	0.014	0.4	PASS
6	10.13E-3	0.004	0.2	PASS
7	60.34E-3	0.026	0.3	PASS
8	3.94E-3	0.002	0.2	PASS
9	15.64E-3	0.007	0.2	PASS
10	5.76E-3	0.003	0.2	PASS
11	68.16E-3	0.030	0.1	PASS
12	4.58E-3	0.002	0.1	PASS
13	63.49E-3	0.028	0.1	PASS
14	13.95E-3	0.006	0.1	PASS
15	22.74E-3	0.010	0.1	PASS
16	13.24E-3	0.006	0.1	PASS
17	62.90E-3	0.027	0.1	PASS
18	7.41E-3	0.003	0.1	PASS
19	41.55E-3	0.018	0.1	PASS
20	4.19E-3	0.002	0.1	PASS
21	36.73E-3	0.016	0.1	PASS
22	5.47E-3	0.002	0.1	PASS
23	48.18E-3	0.021	0.1	PASS
24	3.24E-3	0.001	0.1	PASS
25	9.73E-3	0.004	0.1	PASS
26	6.13E-3	0.003	0.1	PASS
27	50.29E-3	0.022	0.1	PASS
28	7.20E-3	0.003	0.1	PASS
29	23.36E-3	0.010	0.1	PASS
30	4.21E-3	0.002	0.1	PASS
31	38.37E-3	0.017	0.1	PASS
32	7.61E-3	0.003	0.1	PASS
33	20.11E-3	0.009	0.1	PASS
34	6.22E-3	0.003	0.1	PASS
35	22.26E-3	0.010	0.1	PASS
36	3.54E-3	0.002	0.1	PASS
37	29.67E-3	0.013	0.1	PASS
38	11.31E-3	0.005	0.1	PASS
39	15.36E-3	0.007	0.1	PASS
40	5.33E-3	0.002	0.1	PASS

Power and THD results - DS-50			
True power P:	35.94W	Apparent power S:	36.54VA
Reactive power Q:	6.624var	Power factor:	0.983
THD (U):	0.001	THD (I):	0.089
Crest Factor (U):	1.414	Crest Factor (I):	1.435

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### Test Report

Report title:	
Company Name:	
Date of test:	14:29 8.Okt 2008
Measurement file name:	20081008 Electronic convertor EET60LT(60W) Har.rsd
Tester:	HCH
Standard used:	EN/IEC 61000-3-2 Ed.3.Quasi-stationary Equipment class C
Observation time:	150s
Windows width:	10 periods - (EN/IEC 61000-4-7 Edition 2002)
Customer:	
E. U. T.:	EET60LT (load 60W)
Measurement smoothed data:	Fund. Current: 0.264 A Power Factor : 0.997

Test Result	
E. U. T.:	PASS
Power Source:	PASS

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(Date)

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### E. U. T. Result

~~Check harmonics 2-40 [exception odd 2-17-39]~~

Harmonic(s) > 150%:	
Order (n):	None
Harmonic(s) with average > 100%:	
Order (n):	None

~~Check odd harmonics 21-39~~

All Partial Odd Harmonics below partial limits.	
Harmonic(s) > 150%:	
Order (n):	None
Harmonic(s) with average > 150%:	
Order (n):	None

### Power Source Result

First dataset out of limit:	
DS (time):	None
Harmonic(s) out of limit:	
Order (n):	None

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Average harmonic current results				
Hn	I <sub>eff</sub> [A]	I <sub>eff</sub> [%]	Limit [%]	Result
1	261.396E-3	99.072		
2	611.816E-6	0.232	2.00	PASS
3	5.613E-3	2.127	29.90	PASS
4	978.385E-6	0.371		PASS
5	5.144E-3	1.950	10.00	PASS
6	580.582E-6	0.220		PASS
7	4.376E-3	1.659	7.00	PASS
8	659.797E-6	0.250		PASS
9	4.224E-3	1.601	5.00	PASS
10	713.091E-6	0.270		PASS
11	3.704E-3	1.404	3.00	PASS
12	574.407E-6	0.218		PASS
13	3.380E-3	1.281	3.00	PASS
14	968.068E-6	0.367		PASS
15	3.265E-3	1.237	3.00	PASS
16	626.015E-6	0.237		PASS
17	3.107E-3	1.178	3.00	PASS
18	904.202E-6	0.343		PASS
19	3.055E-3	1.158	3.00	PASS
20	592.388E-6	0.225		PASS
21	2.266E-3	0.859	4.50	PASS
22	642.378E-6	0.243		PASS
23	2.149E-3	0.814	4.50	PASS
24	610.421E-6	0.231		PASS
25	2.006E-3	0.760	4.50	PASS
26	593.338E-6	0.225		PASS
27	1.422E-3	0.539	4.50	PASS
28	830.661E-6	0.315		PASS
29	1.383E-3	0.524	4.50	PASS
30	592.080E-6	0.224		PASS
31	1.728E-3	0.655	4.50	PASS
32	770.609E-6	0.292		PASS
33	1.663E-3	0.630	4.50	PASS
34	640.286E-6	0.243		PASS
35	1.293E-3	0.490	4.50	PASS
36	632.067E-6	0.240		PASS
37	1.833E-3	0.695	4.50	PASS
38	582.817E-6	0.221		PASS
39	1.474E-3	0.559	4.50	PASS
40	649.835E-6	0.246		PASS

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**Maximum harmonic current results**

Hn	I <sub>eff</sub> [A]	I <sub>eff</sub> [%]	Limit [%]	Result
1	263.844E-3	100.000		
2	681.170E-6	0.258	3.00	PASS
3	5.893E-3	2.234	44.85	PASS
4	1.163E-3	0.441		PASS
5	5.592E-3	2.119	15.00	PASS
6	679.358E-6	0.257		PASS
7	4.528E-3	1.716	10.50	PASS
8	790.542E-6	0.300		PASS
9	4.531E-3	1.717	7.50	PASS
10	812.344E-6	0.308		PASS
11	3.855E-3	1.461	4.50	PASS
12	648.323E-6	0.246		PASS
13	3.622E-3	1.373	4.50	PASS
14	1.087E-3	0.412		PASS
15	3.430E-3	1.300	4.50	PASS
16	702.823E-6	0.266		PASS
17	3.231E-3	1.225	4.50	PASS
18	1.017E-3	0.385		PASS
19	3.192E-3	1.210	4.50	PASS
20	721.999E-6	0.274		PASS
21	2.482E-3	0.941	4.50	PASS
22	757.066E-6	0.287		PASS
23	2.457E-3	0.931	4.50	PASS
24	677.761E-6	0.257		PASS
25	2.187E-3	0.829	4.50	PASS
26	675.087E-6	0.256		PASS
27	1.588E-3	0.602	4.50	PASS
28	930.808E-6	0.353		PASS
29	1.491E-3	0.565	4.50	PASS
30	731.716E-6	0.277		PASS
31	1.966E-3	0.745	4.50	PASS
32	895.904E-6	0.340		PASS
33	1.883E-3	0.714	4.50	PASS
34	782.547E-6	0.297		PASS
35	1.515E-3	0.574	4.50	PASS
36	764.652E-6	0.290		PASS
37	1.959E-3	0.742	4.50	PASS
38	660.286E-6	0.250		PASS
39	1.708E-3	0.647	4.50	PASS
40	741.086E-6	0.281		PASS

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Maximum harmonic voltage results				
Hn	Ueff [V]	Ueff [%]	Limit [%]	Result
1	230.41	100.180		
2	85.14E-3	0.037	0.2	PASS
3	79.59E-3	0.035	0.9	PASS
4	32.62E-3	0.014	0.2	PASS
5	43.55E-3	0.019	0.4	PASS
6	17.39E-3	0.008	0.2	PASS
7	71.65E-3	0.031	0.3	PASS
8	17.36E-3	0.008	0.2	PASS
9	28.01E-3	0.012	0.2	PASS
10	13.97E-3	0.006	0.2	PASS
11	77.09E-3	0.034	0.1	PASS
12	14.85E-3	0.006	0.1	PASS
13	68.76E-3	0.030	0.1	PASS
14	21.74E-3	0.009	0.1	PASS
15	35.96E-3	0.016	0.1	PASS
16	21.17E-3	0.009	0.1	PASS
17	70.51E-3	0.031	0.1	PASS
18	14.80E-3	0.006	0.1	PASS
19	53.85E-3	0.023	0.1	PASS
20	13.57E-3	0.006	0.1	PASS
21	52.03E-3	0.023	0.1	PASS
22	18.87E-3	0.008	0.1	PASS
23	59.50E-3	0.026	0.1	PASS
24	15.64E-3	0.007	0.1	PASS
25	27.81E-3	0.012	0.1	PASS
26	14.26E-3	0.006	0.1	PASS
27	63.11E-3	0.027	0.1	PASS
28	12.67E-3	0.006	0.1	PASS
29	27.92E-3	0.012	0.1	PASS
30	11.94E-3	0.005	0.1	PASS
31	44.79E-3	0.019	0.1	PASS
32	14.52E-3	0.006	0.1	PASS
33	29.37E-3	0.013	0.1	PASS
34	12.56E-3	0.005	0.1	PASS
35	44.73E-3	0.019	0.1	PASS
36	16.41E-3	0.007	0.1	PASS
37	37.33E-3	0.016	0.1	PASS
38	16.20E-3	0.007	0.1	PASS
39	29.57E-3	0.013	0.1	PASS
40	12.96E-3	0.006	0.1	PASS



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Harmonic current results DS-50				
Hn	I <sub>eff</sub> [A]	I <sub>eff</sub> [%]	Limit [%]	Result
1	263.558E-3	99.891		
2	597.588E-6	0.226	2.00	PASS
3	5.373E-3	2.036	29.90	PASS
4	1.089E-3	0.413		PASS
5	5.516E-3	2.091	10.00	PASS
6	615.014E-6	0.233		PASS
7	4.218E-3	1.599	7.00	PASS
8	673.330E-6	0.255		PASS
9	4.451E-3	1.687	5.00	PASS
10	695.265E-6	0.264		PASS
11	3.700E-3	1.402	3.00	PASS
12	621.196E-6	0.235		PASS
13	3.442E-3	1.305	3.00	PASS
14	918.416E-6	0.348		PASS
15	3.339E-3	1.266	3.00	PASS
16	596.418E-6	0.226		PASS
17	3.056E-3	1.158	3.00	PASS
18	917.087E-6	0.348		PASS
19	3.029E-3	1.148	3.00	PASS
20	582.744E-6	0.221		PASS
21	2.111E-3	0.800	3.00	PASS
22	689.256E-6	0.261		PASS
23	2.177E-3	0.825	3.00	PASS
24	601.936E-6	0.228		PASS
25	1.826E-3	0.692	3.00	PASS
26	616.763E-6	0.234		PASS
27	1.512E-3	0.573	3.00	PASS
28	810.891E-6	0.307		PASS
29	1.297E-3	0.492	3.00	PASS
30	548.885E-6	0.208		PASS
31	1.934E-3	0.733	3.00	PASS
32	717.429E-6	0.272		PASS
33	1.668E-3	0.632	3.00	PASS
34	565.141E-6	0.214		PASS
35	1.453E-3	0.551	3.00	PASS
36	704.379E-6	0.267		PASS
37	1.696E-3	0.643	3.00	PASS
38	561.310E-6	0.213		PASS
39	1.378E-3	0.522	3.00	PASS
40	625.057E-6	0.237		PASS

Caution: Results related to the 100% limit values

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**Harmonic voltage results - DS-50**

Hn	Ueff [V]	Ueff [%]	Limit [%]	Result
1	230.37	100.163		
2	59.86E-3	0.026	0.2	PASS
3	69.43E-3	0.030	0.9	PASS
4	22.29E-3	0.010	0.2	PASS
5	38.98E-3	0.017	0.4	PASS
6	8.80E-3	0.004	0.2	PASS
7	60.60E-3	0.026	0.3	PASS
8	10.04E-3	0.004	0.2	PASS
9	14.59E-3	0.006	0.2	PASS
10	3.27E-3	0.001	0.2	PASS
11	63.95E-3	0.028	0.1	PASS
12	5.32E-3	0.002	0.1	PASS
13	59.35E-3	0.026	0.1	PASS
14	12.64E-3	0.005	0.1	PASS
15	29.26E-3	0.013	0.1	PASS
16	11.99E-3	0.005	0.1	PASS
17	56.77E-3	0.025	0.1	PASS
18	5.53E-3	0.002	0.1	PASS
19	32.82E-3	0.014	0.1	PASS
20	6.91E-3	0.003	0.1	PASS
21	37.51E-3	0.016	0.1	PASS
22	2.82E-3	0.001	0.1	PASS
23	45.08E-3	0.020	0.1	PASS
24	5.31E-3	0.002	0.1	PASS
25	21.04E-3	0.009	0.1	PASS
26	2.82E-3	0.001	0.1	PASS
27	42.54E-3	0.018	0.1	PASS
28	2.66E-3	0.001	0.1	PASS
29	15.08E-3	0.007	0.1	PASS
30	4.49E-3	0.002	0.1	PASS
31	33.46E-3	0.015	0.1	PASS
32	6.53E-3	0.003	0.1	PASS
33	14.13E-3	0.006	0.1	PASS
34	4.72E-3	0.002	0.1	PASS
35	27.05E-3	0.012	0.1	PASS
36	2.12E-3	0.001	0.1	PASS
37	27.55E-3	0.012	0.1	PASS
38	6.51E-3	0.003	0.1	PASS
39	19.74E-3	0.009	0.1	PASS
40	4.91E-3	0.002	0.1	PASS

**Power and THD results - DS-50**

True power P:	60.56W	Apparent power S:	60.78VA
Reactiv power Q:	5.176var	Power factor:	0.996
THD (U):	0.001	THD (I):	0.05
Crest Factor (U):	1.414	Crest Factor (I):	1.411

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## Test Report

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Report title:	
Company Name:	
Date of test:	14:43 8.Okt 2008
Tester:	HCH
Standard used:	EN/IEC 61000-3-2 Ed.3 Equipment class C<= 25W (power related limits)
Observation time:	1s
Windows width:	10 periods - (EN/IEC 61000-4-7 Edition 2002)
Customer:	
E. U. T.:	EET60LT (Load 20W)

Test Result	
E. U. T.:	PASS
Power Source:	PASS

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
(Sign)

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Harmonic current results				
Hn	I <sub>eff</sub> [A]	I <sub>eff</sub> [%]	Limit [A]	Result
1	90.468E-3	100.000		
2	195.965E-6	0.217		PASS
3	2.736E-3	3.025		PASS
4	159.191E-6	0.176		PASS
5	2.030E-3	2.244		PASS
6	252.862E-6	0.280		PASS
7	2.593E-3	2.866		PASS
8	160.532E-6	0.177		PASS
9	2.116E-3	2.338		PASS
10	137.934E-6	0.152		PASS
11	1.760E-3	1.946		PASS
12	215.032E-6	0.238		PASS
13	2.001E-3	2.212		PASS
14	363.655E-6	0.402		PASS
15	1.244E-3	1.375		PASS
16	152.051E-6	0.168		PASS
17	1.093E-3	1.208		PASS
18	284.358E-6	0.314		PASS
19	724.301E-6	0.801		PASS
20	111.696E-6	0.123		PASS
21	605.022E-6	0.669		PASS
22	164.253E-6	0.182		PASS
23	682.995E-6	0.755		PASS
24	182.042E-6	0.201		PASS
25	1.329E-3	1.469		PASS
26	92.823E-6	0.103		PASS
27	719.793E-6	0.796		PASS
28	129.929E-6	0.144		PASS
29	986.726E-6	1.091		PASS
30	251.703E-6	0.278		PASS
31	552.477E-6	0.611		PASS
32	229.588E-6	0.254		PASS
33	456.323E-6	0.504		PASS
34	22.513E-6	0.025		PASS
35	387.177E-6	0.428		PASS
36	307.480E-6	0.340		PASS
37	530.885E-6	0.587		PASS
38	339.537E-6	0.375		PASS
39	703.882E-6	0.778		PASS
40	383.382E-6	0.424		PASS

Power and THD results			
True power P:	20.27W	Apparent power S:	20.89VA
Reactive power Q:	5.064var	Power factor:	0.970
THD (U):	0.001	THD (I):	0.071
Crest Factor (U):	1.414	Crest Factor (I):	1.466

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Harmonic voltage results				
Hn	Ueff [V]	Ueff [%]	Limit [%]	Result
1	230.35	100.150		
2	68.31E-3	0.030	0.2	PASS
3	59.02E-3	0.026	0.9	PASS
4	20.07E-3	0.009	0.2	PASS
5	34.42E-3	0.015	0.4	PASS
6	14.36E-3	0.006	0.2	PASS
7	62.18E-3	0.027	0.3	PASS
8	10.71E-3	0.005	0.2	PASS
9	23.36E-3	0.010	0.2	PASS
10	4.24E-3	0.002	0.2	PASS
11	61.01E-3	0.027	0.1	PASS
12	6.39E-3	0.003	0.1	PASS
13	59.06E-3	0.026	0.1	PASS
14	14.97E-3	0.007	0.1	PASS
15	20.36E-3	0.009	0.1	PASS
16	13.69E-3	0.006	0.1	PASS
17	50.86E-3	0.022	0.1	PASS
18	11.48E-3	0.005	0.1	PASS
19	43.16E-3	0.019	0.1	PASS
20	6.84E-3	0.003	0.1	PASS
21	19.95E-3	0.009	0.1	PASS
22	14.36E-3	0.006	0.1	PASS
23	45.18E-3	0.020	0.1	PASS
24	9.57E-3	0.004	0.1	PASS
25	13.26E-3	0.006	0.1	PASS
26	10.97E-3	0.005	0.1	PASS
27	42.61E-3	0.019	0.1	PASS
28	9.20E-3	0.004	0.1	PASS
29	24.33E-3	0.011	0.1	PASS
30	8.59E-3	0.004	0.1	PASS
31	31.20E-3	0.014	0.1	PASS
32	2.77E-3	0.001	0.1	PASS
33	21.43E-3	0.009	0.1	PASS
34	6.14E-3	0.003	0.1	PASS
35	24.93E-3	0.011	0.1	PASS
36	5.06E-3	0.002	0.1	PASS
37	34.89E-3	0.015	0.1	PASS
38	6.84E-3	0.003	0.1	PASS
39	20.22E-3	0.009	0.1	PASS
40	2.36E-3	0.001	0.1	PASS

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

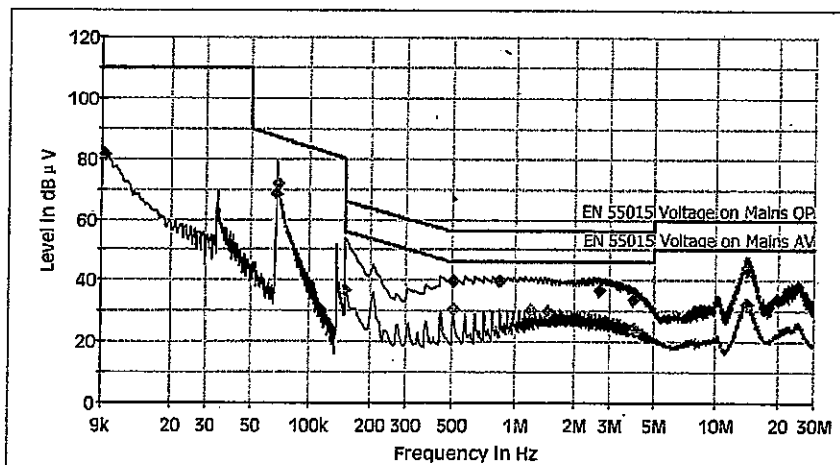
## EMC Test Record (EMISSION)

### Test Information

Manufacturer: Eaglerise  
 Test Item: Converter  
 Identification: EET105LT  
 Test Standard: EN 55015  
 Test Detail: Conducted Emission  
 Operation Mode: Rated Load  
 Climate Condition: 23°C; 65%RH; 101kPa.  
 Test Voltage/ Freq.: 230V/ 50Hz  
 Port / Line: AC Mains / L  
 Receipt No.: 173040283  
 Report No.:  
 Result: Pass  
 Comment:

Hardware Setup: 1phase LISN ESH3-Z5 to ESCS30  
 Level Unit: dBµV

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



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Tested by:



Reviewed by:



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TUV Rheinland (Guangdong) Ltd.

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**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.009300	81.5	1000.000	0.200	L1
0.068300	68.2	1000.000	0.200	L1
0.068400	72.0	1000.000	0.200	L1
0.510000	39.7	1000.000	9.000	L1
0.850000	39.6	1000.000	9.000	L1
2.660000	35.6	1000.000	9.000	L1
4.010000	33.9	1000.000	9.000	L1
14.090000	43.4	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
0.009300	11.0	28.5	110.0	
0.068300	10.1	19.0	87.2	
0.068400	10.1	15.1	87.1	
0.510000	10.0	16.3	56.0	
0.850000	10.0	16.4	56.0	
2.660000	10.2	19.4	56.0	
4.010000	10.3	22.1	56.0	
14.090000	10.8	16.6	60.0	

**Final Measurement Detector 2**

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.150000	36.7	1000.000	9.000	L1
0.510000	30.8	1000.000	9.000	L1
1.190000	30.3	1000.000	9.000	L1
1.460000	29.9	1000.000	9.000	L1
4.080000	23.5	1000.000	9.000	L1
14.160000	32.1	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
0.150000	10.0	19.3	56.0	
0.510000	10.0	15.2	46.0	
1.190000	10.0	15.7	46.0	
1.460000	10.0	16.1	46.0	
4.080000	10.3	22.5	46.0	
14.160000	10.8	17.9	50.0	

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Tested by:



Reviewed by:



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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

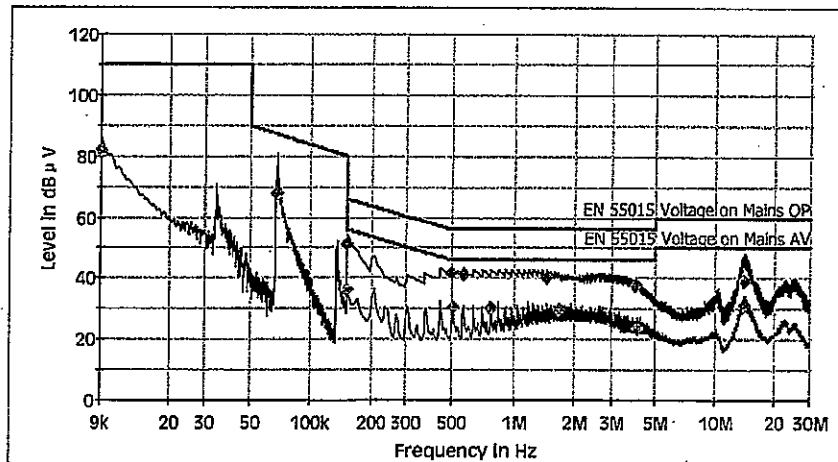
## EMC Test Record (EMISSION)

### Test Information


Manufacturer: Eaglerise  
 Test Item: Converter  
 Identification: EET105LT  
 Test Standard: EN 55015  
 Test Detail: Conducted Emission  
 Operation Mode: Rated Load  
 Climate Condition: 23°C; 65%RH; 101kPa.  
 Test Voltage/ Freq.: 230V/ 50Hz  
 Port / Line: AC Mains / N  
 Receipt No.: 173040283  
 Report No.:  
 Result: Pass  
 Comment:

Hardware Setup: 1phase LISN ESH3-Z5 to ESCS30  
 Level Unit: dB  $\mu$  V

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



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Tested by: 

Reviewed by: 



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TUV Rheinland (Guangdong) Ltd.

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**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.009000	81.7	1000.000	0.200	N
0.067700	67.6	1000.000	0.200	N
0.150000	51.3	1000.000	9.000	N
0.505000	41.4	1000.000	9.000	N
0.575000	41.0	1000.000	9.000	N
1.450000	40.1	1000.000	9.000	N
3.970000	37.6	1000.000	9.000	N
13.990000	39.2	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
0.009000	10.9	28.3	110.0	
0.067700	10.0	19.6	87.2	
0.150000	10.0	14.7	66.0	
0.505000	10.0	14.6	56.0	
0.575000	10.0	15.0	56.0	
1.450000	10.0	15.9	56.0	
3.970000	10.1	18.4	56.0	
13.990000	10.7	20.8	60.0	

**Final Measurement Detector 2**

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.150000	36.1	1000.000	9.000	N
0.510000	30.7	1000.000	9.000	N
0.780000	30.0	1000.000	9.000	N
1.655000	29.8	1000.000	9.000	N
4.050000	23.5	1000.000	9.000	N
14.060000	31.2	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
0.150000	10.0	19.9	56.0	
0.510000	10.0	15.3	46.0	
0.780000	10.0	16.0	46.0	
1.655000	10.0	16.2	46.0	
4.050000	10.1	22.5	46.0	
14.060000	10.7	18.8	50.0	

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Tested by:  Reviewed by: 

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013 / 028

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

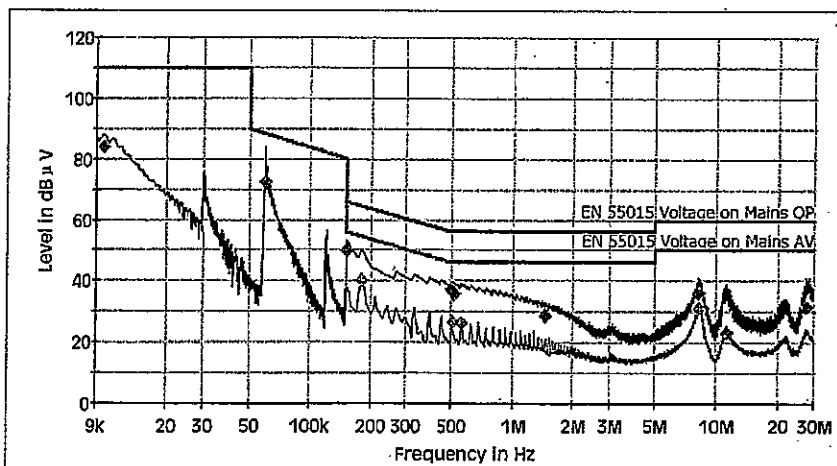
## EMC Test Record (EMISSION)

### Test Information

Manufacturer: Eaglerise  
 Test Item: Convertor  
 Identification: EET150LT  
 Test Standard: EN 55015  
 Test Detail: Conducted Emission  
 Operation Mode: Rated Load  
 Climate Condition: 23°C; 65%RH; 101kPa.  
 Test Voltage/ Freq.: 230V/ 50Hz  
 Port / Line: AC Mains / L  
 Receipt No.: 173040283  
 Report No.:  
 Result: Pass  
 Comment:

Hardware Setup: 1phase LISN ESH3-Z5 to ESCS30  
 Level Unit: dB  $\mu$  V

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



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Tested by: \_\_\_\_\_

Reviewed by: \_\_\_\_\_



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014/028

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB μV)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.009800	83.8	1000.000	0.200	L1
0.060000	72.5	1000.000	0.200	L1
0.150000	49.7	1000.000	9.000	L1
0.505000	37.3	1000.000	9.000	L1
0.520000	35.6	1000.000	9.000	L1
1.460000	28.6	1000.000	9.000	L1
8.260000	36.2	1000.000	9.000	L1
27.625000	31.9	1000.000	9.000	L1

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

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dB μV)	Comment
0.009800	10.9	26.2	110.0	
0.060000	10.1	15.9	88.3	
0.150000	10.0	16.3	66.0	
0.505000	10.0	18.7	56.0	
0.520000	10.0	20.4	56.0	
1.460000	10.0	27.4	56.0	
8.260000	10.3	23.8	60.0	
27.625000	11.5	28.1	60.0	

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB μV)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.180000	40.2	1000.000	9.000	L1
0.510000	26.7	1000.000	9.000	L1
0.570000	26.0	1000.000	9.000	L1
1.525000	17.7	1000.000	9.000	L1
8.325000	31.0	1000.000	9.000	L1
11.325000	23.3	1000.000	9.000	L1

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

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dB μV)	Comment
0.180000	10.0	14.2	54.5	
0.510000	10.0	19.3	46.0	
0.570000	10.0	20.0	46.0	
1.525000	10.0	28.3	46.0	
8.325000	10.3	19.0	50.0	
11.325000	10.5	26.7	50.0	

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Tested by:



Reviewed by:



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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

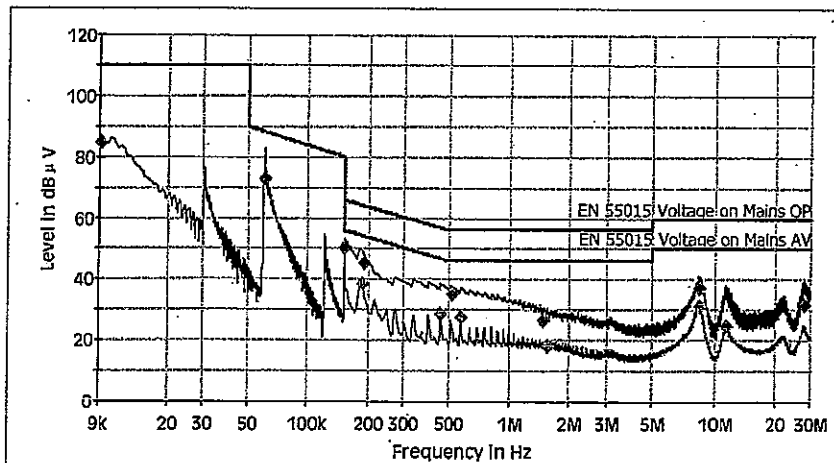
### EMC Test Record (EMISSION)

#### Test Information

Manufacturer: Eaglerise  
 Test Item: Converter  
 Identification: EET150LT  
 Test Standard: EN 55015  
 Test Detail: Conducted Emission  
 Operation Mode: Rated Load  
 Climate Condition: 23°C; 65%RH; 101kPa.  
 Test Voltage/ Freq.: 230V/ 50Hz  
 Port / Line: AC Mains / N  
 Receipt No.: 173040283  
 Report No.:  
 Result: Pass  
 Comment:

Hardware Setup: 1phase LISN ESH3-Z5 to ESCS30  
 Level Unit: dB  $\mu$  V

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



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Reviewed by:



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TUV Rheinland (Guangdong) Ltd.

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**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.009100	84.2	1000.000	0.200	N
0.061000	72.6	1000.000	0.200	N
0.150000	50.2	1000.000	9.000	N
0.190000	45.4	1000.000	9.000	N
0.520000	35.2	1000.000	9.000	N
1.485000	26.6	1000.000	9.000	N
8.385000	37.3	1000.000	9.000	N
28.220000	31.6	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	10.9	25.8	110.0	
0.061000	10.0	15.6	88.2	
0.150000	10.0	15.8	66.0	
0.190000	9.9	18.7	64.0	
0.520000	10.0	20.8	56.0	
1.485000	10.0	29.4	56.0	
8.385000	10.3	22.7	60.0	
28.220000	11.3	28.4	60.0	

**Final Measurement Detector 2**

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.185000	38.8	1000.000	9.000	N
0.455000	28.5	1000.000	9.000	N
0.575000	27.8	1000.000	9.000	N
1.545000	18.2	1000.000	9.000	N
8.425000	31.3	1000.000	9.000	N
11.285000	24.7	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
0.185000	10.0	15.4	54.3	
0.455000	10.0	18.3	46.8	
0.575000	10.0	18.2	46.0	
1.545000	10.0	27.8	46.0	
8.425000	10.3	18.7	50.0	
11.285000	10.5	25.3	50.0	

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Reviewed by:



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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

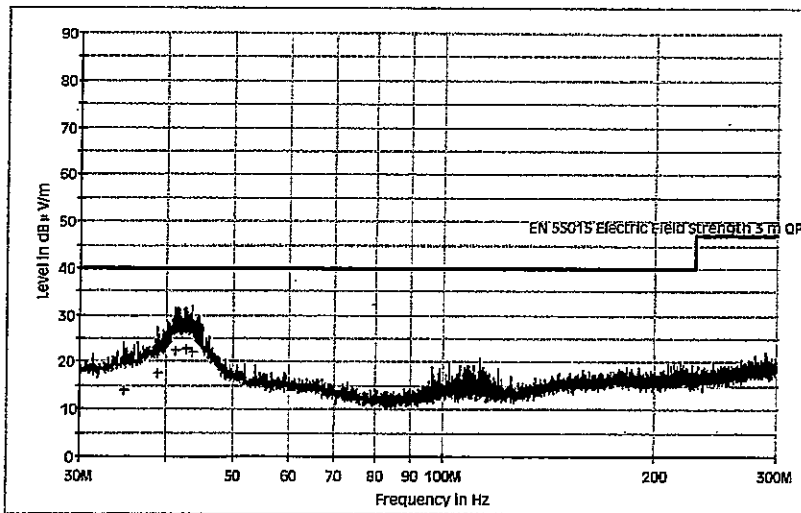
### EMC Test Record (EMISSION)

#### Test Information

Manufacturer: Eaglerise  
 Test Item: Converter  
 Identification: EET60LT  
 Test Standard: EN 55015  
 Test Detail: Radiated Emission  
 Operation Mode: Rated Load  
 Climate Condition: 23°C; 65%RH; 101kPa.  
 Test Voltage / Freq.: 230V/ 50Hz  
 Receipt No.: 173040283  
 Report No.  
 Result: Pass  
 Comment:

#### Subrange 1

Frequency Range: 30MHz - 1GHz  
 Receiver: TUV ESCI 3  
 Transducer: TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



#### Limit and Margin

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarity
34.800000	14.1	14.2	25.9	40.0	H
36.750000	17.7	14.4	22.3	40.0	H
41.150000	22.4	14.3	17.6	40.0	H
42.750000	22.7	14.0	17.3	40.0	H
43.500000	22.2	13.9	17.8	40.0	H

Date: 4/2/2009 - Time: 2:48:07 PM

Tested by:

 DW  
2009 4, 14  
Checked

Reviewed by:

 CNL  
2009 4, 14  
Checked

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TUV Rheinland (Guangdong) Ltd.

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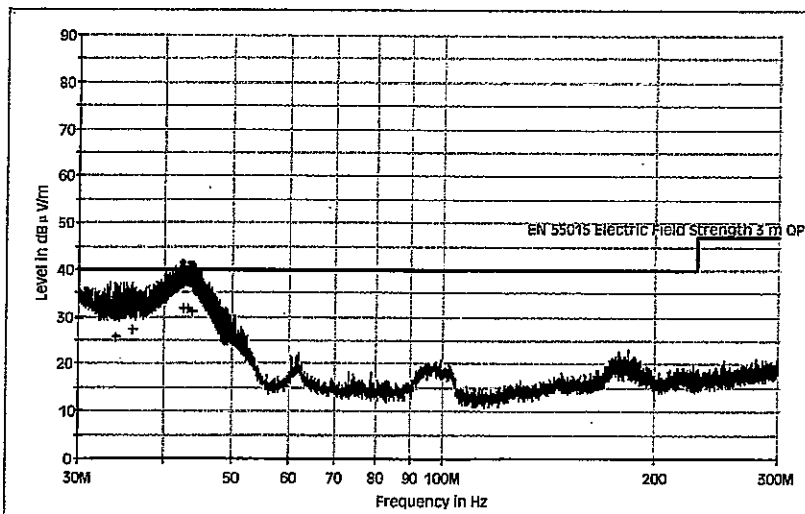
### EMC Test Record (EMISSION)

#### Test Information

Manufacturer: Eaglerise  
 Test Item: Converter  
 Identification: EET60LT  
 Test Standard: EN 55015  
 Test Detail: Radiated Emission  
 Operation Mode: Rated Load  
 Climate Condition: 23°C; 65%RH; 101kPa.  
 Test Voltage / Freq.: 230V/ 50Hz  
 Receipt No.: 173040283  
 Report No.:  
 Result: Pass  
 Comment:

#### Subrange 1

Frequency Range: 30MHz - 1GHz  
 Receiver: TUV ESCI 3  
 Transducer: TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



#### Limit and Margin

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarity
30.000000	29.7	13.5	10.3	40.0	V
34.000000	25.6	14.1	14.4	40.0	V
35.900000	27.2	14.2	12.8	40.0	V
42.550000	31.7	14.0	8.3	40.0	V
43.200000	31.7	13.9	8.3	40.0	V
43.750000	31.1	13.8	8.9	40.0	V

Date: 4/2/2009 - Time: 2:38:21 PM

Tested by:



Reviewed by:



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TUV Rheinland (Guangdong) Ltd.

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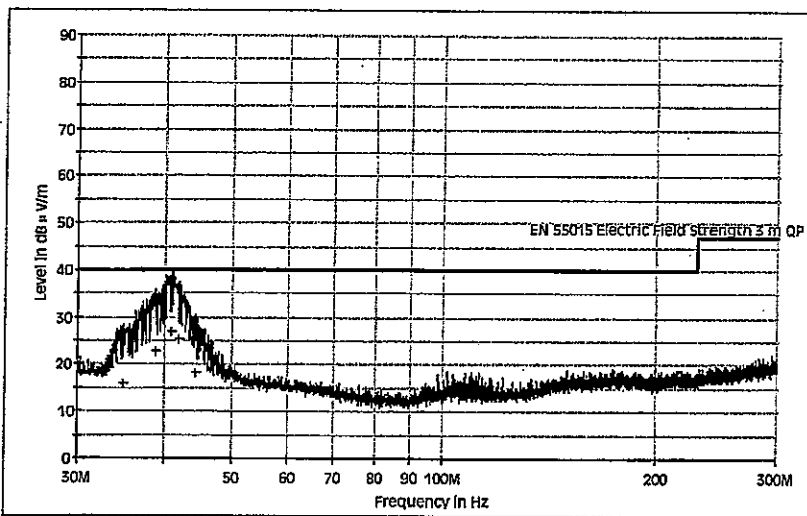
### EMC Test Record (EMISSION)

#### Test Information

Manufacturer: Eaglerise  
 Test Item: Converter  
 Identification: EET60LTD  
 Test Standard: EN 55015  
 Test Detail: Radiated Emission  
 Operation Mode: Rated Load  
 Climate Condition: 23°C; 65%RH; 101kPa.  
 Test Voltage / Freq. : 230V/ 50Hz  
 Receipt No.: 173040283  
 Report No.  
 Result: Pass  
 Comment:

#### Subrange 1

Frequency Range: 30MHz - 1GHz  
 Receiver: TUV ESCI 3  
 Transducer: TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



#### Limit and Margin

Frequency (MHz)	QuasiPeak (dB μV/m)	Corr. (dB)	Margin (dB)	Limit (dB μV/m)	Polarity
34.850000	16.0	14.2	24.0	40.0	H
38.700000	22.7	14.4	17.3	40.0	H
40.750000	27.0	14.3	13.0	40.0	H
41.750000	25.4	14.1	14.6	40.0	H
44.200000	18.3	13.7	21.7	40.0	H

Date: 4/2/2009 - Time: 3:05:04 PM

Tested by:



Reviewed by:





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TUV Rheinland (Guangdong) Ltd.

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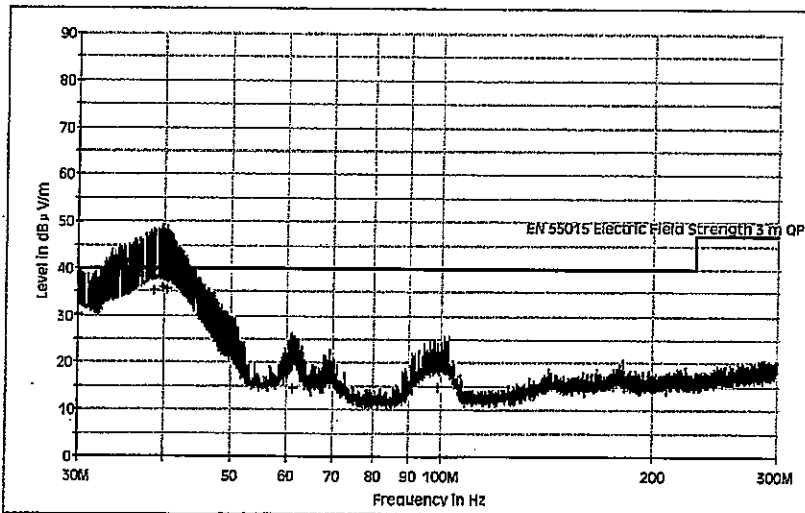
## EMC Test Record (EMISSION)

### Test Information

Manufacturer: Eaglerise  
 Test Item: Converter  
 Identification: EET60LTD  
 Test Standard: EN 55015  
 Test Detail: Radiated Emission  
 Operation Mode: Rated Load  
 Climate Condition: 23°C; 65%RH; 101kPa.  
 Test Voltage / Freq.: 230V/ 50Hz  
 Receipt No.: 173040283  
 Report No.:  
 Result: Pass  
 Comment:

### Subrange 1

Frequency Range: 30MHz - 1GHz  
 Receiver: TUV ESCI 3  
 Transducer: TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



### Limit and Margin

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarity
30.000000	30.1	13.5	9.9	40.0	V
38.500000	35.3	14.4	4.7	40.0	V
39.800000	36.1	14.4	3.9	40.0	V
40.350000	35.6	14.4	4.4	40.0	V
61.400000	14.7	11.3	25.3	40.0	V
98.900000	14.8	9.3	25.2	40.0	V

Date: 4/2/2009 - Time: 3:16:42 PM

Tested by:



Reviewed by:



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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

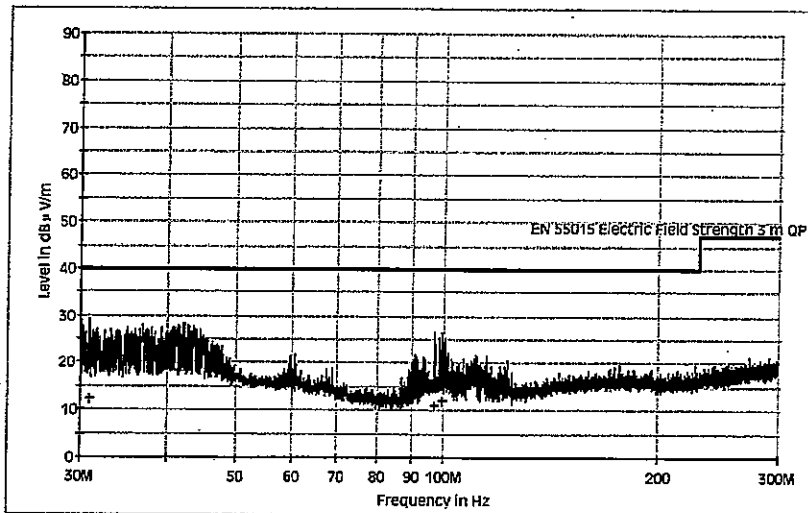
## EMC Test Record (EMISSION)

### Test Information

Manufacturer: Eaglerise  
 Test Item: Converter  
 Identification: EET150LT EBT105LT  
 Test Standard: EN 55015  
 Test Detail: Radiated Emission  
 Operation Mode: Rated Load  
 Climate Condition: 23°C; 65%RH; 101kPa.  
 Test Voltage / Freq.: 230V/ 50Hz  
 Receipt No.: 173040283  
 Report No.  
 Result: Pass  
 Comment:

### Subrange 1

Frequency Range: 30MHz - 1GHz  
 Receiver: TUV ESCI 3  
 Transducer: TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



### Limit and Margin

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarity
30.850000	12.4	13.6	27.6	40.0	H
41.350000	18.2	14.2	21.8	40.0	H
42.250000	19.5	14.1	20.5	40.0	H
97.000000	11.1	9.2	28.9	40.0	H
99.750000	11.9	9.3	28.1	40.0	H

Date: 4/2/2009 - Time: 2:17:57 PM

Tested by:



Reviewed by:



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TUV Rheinland (Guangdong) Ltd.

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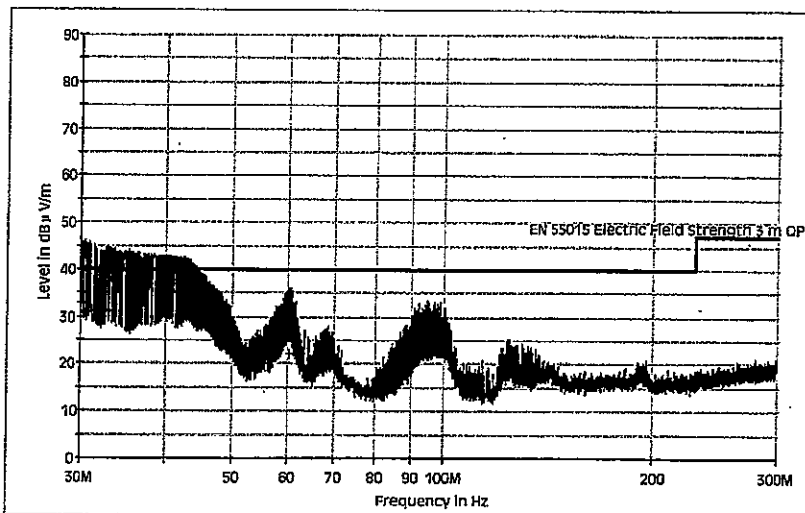
## EMC Test Record (EMISSION)

### Test Information

Manufacturer: Eaglerise  
Test Item: Converter  
Identification: EET105LT  
Test Standard: EN 55015  
Test Detail: Radiated Emission  
Operation Mode: Rated Load  
Climate Condition: 23°C; 65%RH; 101kPa.  
Test Voltage / Freq.: 230V/ 50Hz  
Receipt No.: 173040283  
Report No.  
Result: Pass  
Comment:

### Subrange 1

Frequency Range: 30MHz - 1GHz  
Receiver: TUV ESCI 3  
Transducer: TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



### Limit and Margin

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr (dB)	Margin (dB)	Limit (dBµV/m)	Polarity
30.000000	32.9	13.5	7.1	40.0	V
30.500000	30.9	13.6	9.1	40.0	V
32.750000	31.3	13.9	8.7	40.0	V
40.150000	29.9	14.4	10.1	40.0	V
60.350000	22.0	11.5	18.0	40.0	V

Date: 4/2/2009 - Time: 2:28:29 PM

Tested by:



Reviewed by:



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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

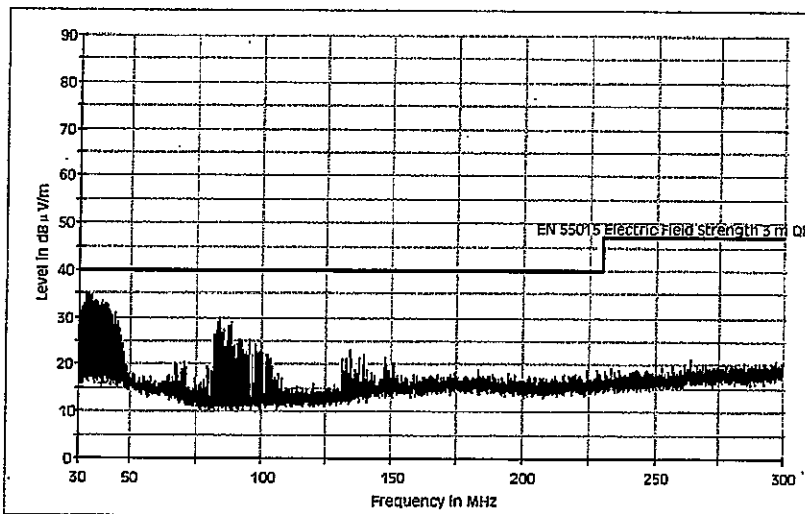
## EMC Test Record (EMISSION)

### Test Information

Manufacturer: Eaglerise  
 Test Item: Converter  
 Identification: EET150LT  
 Test Standard: EN 55015  
 Test Detail: Radiated Emission  
 Operation Mode: Rated Load  
 Climate Condition: 23°C; 65%RH; 101kPa.  
 Test Voltage / Freq. : 230V/ 50Hz  
 Receipt No.: 173040283  
 Report No.  
 Result: Pass  
 Comment:

### Subrange 1

Frequency Range: 30MHz - 1GHz  
 Receiver: TUV ESCI 3  
 Transducer: TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



### Limit and Margin

Frequency (MHz)	QuasiPeak (dB μV/m)	Corr (dB)	Margin (dB)	Limit (dB μV/m)	Polarity
32.600000	21.8	13.9	18.2	40.0	H
38.800000	15.9	14.4	24.1	40.0	H
84.050000	17.0	8.8	23.0	40.0	H
88.350000	15.0	8.7	25.0	40.0	H

Date: 4/9/2009 - Time: 3:30:19 PM

Tested by:



Reviewed by:



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TUV Rheinland (Guangdong) Ltd.

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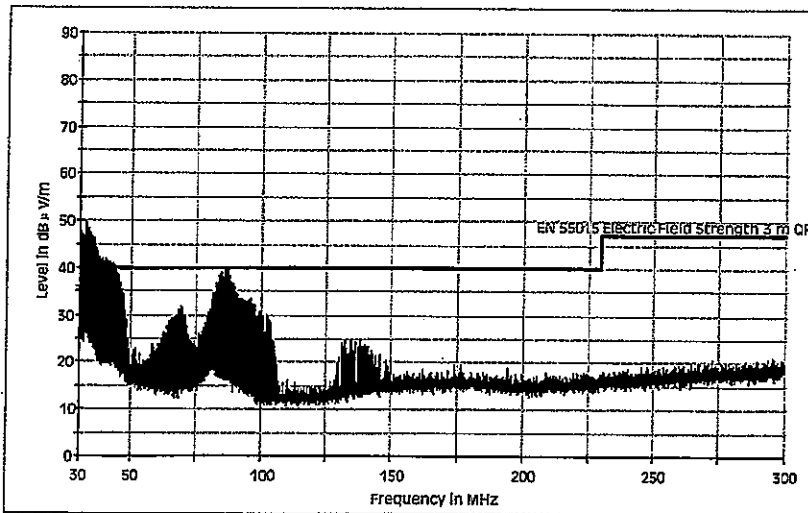
### EMC Test Record (EMISSION)

**Test Information**

Manufacturer: Eaglerise  
 Test Item: Converter  
 Identification: EET150LT  
 Test Standard: EN 55015  
 Test Detail: Radiated Emission  
 Operation Mode: Rated Load  
 Climate Condition: 23°C; 65%RH; 101kPa.  
 Test Voltage / Freq.: 230V/ 50Hz  
 Receipt No.: 173040283  
 Report No.:  
 Result: Pass  
 Comment:

**Subrange 1**

Frequency Range: 30MHz - 1GHz  
 Receiver: TUV ESCI 3  
 Transducer: TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



**Limit and Margin**

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarity
30.050000	36.2	13.5	3.8	40.0	V
32.400000	37.0	13.9	3.0	40.0	V
86.000000	25.6	8.7	14.4	40.0	V
96.100000	19.6	9.1	20.4	40.0	V

Date: 4/9/2009 - Time: 3:21:36 PM

Tested by:



Reviewed by:

