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Auftraggeber: <i>Client:</i>	Eaglerise Electric & Electronic (Foshan) Co., Ltd Guicheng Sci-Tech Industrial Park Jianping Road, Nanhai District Foshan, Guangdong, P.R. China		
Gegenstand der Prüfung: <i>Test item:</i>	Electronic Converter		
Bezeichnung: <i>Identification:</i>	EET150LT	EET105LT	Serien-Nr.: <i>Serial No.:</i>
	EET60LT	EET60LTD	Pre-production Model
Wareneingangs-Nr.: <i>Receipt No.:</i>	173022513	Eingangsdatum: <i>Date of receipt:</i>	19.May.2006
	173023944		
Prüfört: <i>Testing location:</i>	Refer to section 2.1		
Prüfgrundlage: <i>Test specification:</i>	EN 55015:2000+A1+A2 EN 61547:1995+A1 EN 61000-3-2:2000+A2 EN 61000-3-3:1995+A1		
Prüfergebnis: <i>Test Result:</i>	Der vorstehend beschriebene Prüfgegenstand wurde geprüft und entspricht oben genannter Prüfgrundlage. <i>The a. m. test item passed the test specification..</i>		
Prüflaboratorium: <i>Testing Laboratory:</i>	TÜV Rheinland (Guangdong) Ltd.		
geprüft/ tested by:	kontrolliert/ checked by:		
02.Aug.2006 Yvonne Zheng 	07. Aug. 2006 Richard Lu 		
Datum <i>Date</i>	Name <i>Name</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>
			Name <i>Name</i>
			Unterschrift <i>Signature</i>
Sonstiges/ Other Aspects:			
The installation has to be carried out according to the manufacturers specification.			
Abkürzungen: ok / P = entspricht Prüfgrundlage fail / F = entspricht nicht Prüfgrundlage n.a. / N = nicht anwendbar		Abbreviations: ok / P = passed fail / F = failed n.a. / N = not applicable	
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. <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

5.1.1 HARMONICS ON AC MAINS

RESULT: ok

5.1.2 VOLTAGE FLUCTUATIONS ON AC MAINS

RESULT: ok

5.1.3 TERMINAL CONTINUOUS DISTURBANCE VOLTAGE

RESULT: ok

5.1.4 RADIATED ELECTROMAGNETIC DISTURBANCES

RESULT: ok

6.2.1 RADIATED RADIO-FREQUENCY ELECTROMAGNETIC FIELDS (RS), AMPLITUDE MODULATION

RESULT: ok

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

RESULT: ok

6.3.1 ELECTRICAL FAST TRANSIENTS (EFT)

RESULT: ok

6.3.2 SURGE

RESULT: ok

6.3.3 ELECTROSTATIC DISCHARGES (ESD)

RESULT: ok

6.4.1 VOLTAGE DIP AND INTERRUPTIONS

RESULT: ok

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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

1) TÜV Rheinland (Guangdong) Ltd. EMC Laboratory

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

2) China Guangzhou Electrical Safety Testing Institute of Quality and Technical Supervisor (CEST)

No.6 Hai Cheng Dong Street, Xingang Dong Road, Haizhu District,
Guangzhou, P. R. China 510330

The tests at these test sites have been conducted under the supervision of a TÜV engineer.



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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.				
Harmonics and Flicker Analyzer	EM TEST	DPA 500	0304-01	07.06.2007
AC Source	EM TEST	ACS 500	0304-01	07.06.2007
EMI TEST Receiver	ROHDE&SCHWARZ	ESCS30	100316	11.03.2007
LISN	ROHDE&SCHWARZ	ESH2-Z5	100316	11.03.2007
Absorbing Clamp	ROHDE&SCHWARZ	MDS21	100144	11.03.2007
Pulse Limiter	ROHDE&SCHWARZ	ESH3-Z2	100315	11.03.2007
CW sine Generator	EM TEST	CWS 500C	0404-04	07.06.2007
Attenuator	EM TEST	ATT 6	0402-07	07.06.2007
CDN	EM TEST	CDN-M2/M3	0604-02	07.06.2007
EMC Immunity Test Instrument	SCHAFFNER	BEST EMC V2.3	200103-006SC	11.03.2007
ESD Gun	SCHAFFNER	Best ESD	1030	11.03.2007
EMI Test Receiver	Rohde & Schwarz	ESCI-3	100216	13.01.2007
Triple Loop Antenna	Rohde & Schwarz	HM 020	100021	13.01.2007
CEST				
Signal generator	Marconi	M2023	08078	01.09.2006
R.F. amplifier	U.S.A. AR	10W1000B	08086	01.10.2006
Electrical Field Monitor	U.S.A AR	FM5004	08087	01.10.2006
Electrical Field Probe	U.S.A AR	FP5000	08088	01.10.2006



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3. General Product Information

The submitted samples EET150LT, EET105LT, EET60LT, EET60LTD were independent Electronic Convertors with strict installation instruction by manufacturer. The differences among them were as following:

- EET60LT and EET60LTD have the same PCB Layout and similar circuit diagram.
- Models EET150LT, EET105LT, EET60LT have the similar circuit. Their differences are the PCB Layout, the components and the rated power.

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

Model No.	Har	DV	RE	EMS					
				RS	CS	ESD	EFT	Surge	Dip
EET60LTD	--	√	--	--	--	--	--	√	--
EET60LT	√	√	--	--	--	--	--	√	--
EET105LT	√	√	--	--	--	--	--	√	--
EET150LT	√	√	√	√	√	√	√	√	√

3.1 Product Function and Intended Use

Refer to Constructional Data Form and user manual.



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3.2 Ratings and System Details

Model No.	EET60LT	EET60LTD	EET105LT	EET150LT
Rated Voltage:	AC 230V			
Frequency:	50Hz			
Rated Input:	0.26A		0.46A	0.65A
Rated Output Voltage:	11.5V AC			
Protection Class:	II			

Refer to the Constructional Data Form for further information

3.3 Independent Operation Modes

The basic operation modes are:

- A. Off
- B. On

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Constructional Data Form

3.5 Submitted Documents

Constructional Data Form
Construction Drawing
Circuit Diagram
PCB Layout
Parts List
Rating Label
User Manual
Photo Document (refer to related safety test report 16007596 001)

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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 setup 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 Construction File. No additional measures were employed to achieve compliance.



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5. Test Results EMISSION

5.1 Emission in the Frequency Range up to 30 MHz

5.1.1 Harmonics on AC Mains

RESULT:

ok

Date of testing : 24.05.2006

Test procedure : EN 61000-3-2:2000+A2

Measured harmonics : 1 - 40

Equipment Class : C

Test Setup

Input Voltage : 230V, 50Hz

Operation Mode : On with rated load
EET60LT (20W, 35W, 40W, 60W)
EET105LT (35W, 50W, 70W, 105W)
EET150LT (50W, 85W, 100W, 150W)

Artificial Hand : Not applied

Earthing : Not applied

Temperature : 22°C

Humidity : 50%

Measurements refer to the attached appendix 1



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5.1.2 Voltage Fluctuations on AC Mains

RESULT:

ok

Date of testing : ---
Test procedure : EN 61000-3-3:1995+A1
Frequency range : 0 - 2kHz
Limits : EN 61000-3-3:1995+A1, clause 5

With reference to EN 61000-3-3:1995+A1 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

Clause 6.1: "Tests should not be made on equipment which is unlikely to produce significant voltage fluctuation or flicker."

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5.1.3 Terminal Continuous Disturbance Voltage

RESULT:

ok

5.1.3.1 Continuous Disturbance Voltage on AC mains

Date of testing : 24.05.2006
28.07.2006(EET60TLD)

Test procedure : EN 55015:2000+A1+A2
Frequency range : 0.009 - 30MHz
Kind of test site : Shielded room
Limits : EN 55015:2000+A1+A2 Clause 4.3, Table 2a

Test setup

Input Voltage : AC 230V, 50Hz
Operation Mode : On with maximum disturbance
Artificial Hand : Not applied
Earthing : Not applied
Temperature : 22°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.

Measurements refer to appendix 1.



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5.1.3.2 Continuous Disturbance Voltage on Load Terminal

Date of testing : ---,--,-----
Test procedure : EN 55015:2000+A1+A2
Frequency range : 0.009 - 30MHz
Kind of test site : Shielded room
Limits : EN 55015:2000+A1+A2 Clause 4.3, Table 2b

The submitted sample is a build-in convertor, 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 55015:2000+A1+A2 clause 5.3.3.3, the convertor 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:

ok

Date of testing : 24.05.2006
Test procedure : EN 55015:2000+A1+A2
Frequency range : 0.009 - 30MHz
Limits : EN 55015:2000+A1+A2, Clause 4.4 table 3

Test setup

Input Voltage : AC 230V, 50Hz
Operation Mode : On with maximum disturbance
Artificial Hand : Not applied
Earthing : Not applied
Temperature : 22°C
Humidity : 50%

Measurements refer to appendix 1.



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6. Test Results IMMUNITY

6.1 Continuous Disturbances Classification of Apparatus

According to EN 61547:1995+A1, clause 6.3.3 the EUT shall be tested in accordance with clause 5 and compliance with the performance criteria of table 15.

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, clause 5.4: "these tests ... need only to be applied to equipment containing components susceptible to magnetic fields"

Continuous Disturbances

Radiated Radio-Frequency Electromagnetic Fields (RS), Amplitued 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 B

During the tests, the EUT were tested with maximum load.

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



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6.2 Continuous Disturbances

6.2.1 Radiated Radio-frequency Electromagnetic Fields (RS), Amplitude Modulation

RESULT:

ok

Date of testing : 24.05.2006

Test specification : EN 61547:1995+A1, clause 5.3

Basic Standard : IEC 1000-4-3

Frequency range : 80 -1000MHz

Test level : 3V/m (unmodulated, rms.)

Modulation : 80% AM, 1kHz

Criterion : A

Test Setup

Input Voltage : AC 230V, 50Hz

Operation Mode : On with maximum load

Earthing : Not applied

Temperature : 22°C

Humidity : 50%

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

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



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

RESULT:

ok

Date of testing : 24.05.2006
Test Specification : EN 61547:1995+A1 clause 5.6
Basic Standard : IEC 1000-4-6
Source impedance : 150Ω
Frequency range : 150kHz - 80MHz
Modulation : AM 80%, 1kHz sine-wave
Sweep mode : automatic
Sweep rate : $< 1.5 \times 10^{-3}$ decade / sec.
Performance criterion : A

Test Setup

Input Voltage : AC 230V, 50Hz
Operation Mode : On with maximum load
Earthing : Not applied
Temperature : 22°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

Coupling port	coupling method:	Strenght	result	remarks
Output port:	EM Clamp	3V(r.m.s.)	Passed	equipment operated as intended, no degradation of function



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6.3 Transient Disturbances

6.3.1 Electrical Fast Transients (EFT)

RESULT:

ok

Date of testing : 24.05.2006
Test Specification : EN 61547:1995+A1 clause 5.5
Basic Standard : IEC 1000-4-4
Pulsform : $T_r/T_f=5/50\text{ns}$
Repetition Freq. : 5kHz
Test duration : $\geq 60\text{sec}$
Performance criterion : B

Test Setup

Input Voltage : AC 230V, 50Hz
Operation Mode : On with maximum load
Earthing : Not applied
Temperature : 22°C
Humidity : 50%

Table 4: Immunity against Electrical Fast Transients (EFT)

Coupling method: direct injection		inject time: 120s	
Coupling port	test voltage / result		remarks
AC mains	$\pm 1000\text{V}$	Passed	equipment operated as intended, no degradation of function



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6.3.2 Surge

RESULT:

ok

Date of testing : 24.05.2006/ 01.06.2006
 Test Specification : EN 61547:1995+A1 clause 5.7
 Basic Standard : IEC 1000-4-5
 Pulsform : $T_r/T_h=1.2/50\mu s$
 Test voltages : $\pm 0.5kV$
 Coupling : Coupling Network for AC Mains
 Coupling phases : $0, \pi/2, \pi, 3\pi/2$
 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 maximum load (For EET105LT, EET150LT)
 On with 20W & 60W (For EET60LT, EET60LTD)
 Earthing : Not applied
 Temperature : 22°C
 Humidity : 50%

Table 5: Surge Immunity Tests, AC Power Supply

Coupling port	test voltage	coupling phase / result		remarks
AC mains: L - N	$\pm 1000V$	0	Passed	equipment operated as intended, no degradation of function
		$\pi/2$	Passed	
		π	Passed	
		$3\pi/2$	Passed	
AC mains: L - N (for EET60LT, EET60LTD with 20W load)	$\pm 500V$	0	Passed	equipment operated as intended, no degradation of function
		$\pi/2$	Passed	
		π	Passed	
		$3\pi/2$	Passed	



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6.4 Power Supply Alterations

6.4.1 Voltage Dip and Interruptions

RESULT:

ok

Date of testing : 24.05.2006
Test Specification : EN 61547:1995+A1 clause 5.8
Basic Standard : IEC 1000-4-11
Performance criterion : C+B

Test Setup

Input Voltage : AC 230V, 50Hz
Operation Mode : On with maximum load
Earthing : Not applied
Temperature : 22°C
Humidity : 50%

Table 7: Voltage Dip and Interruptions Immunity

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

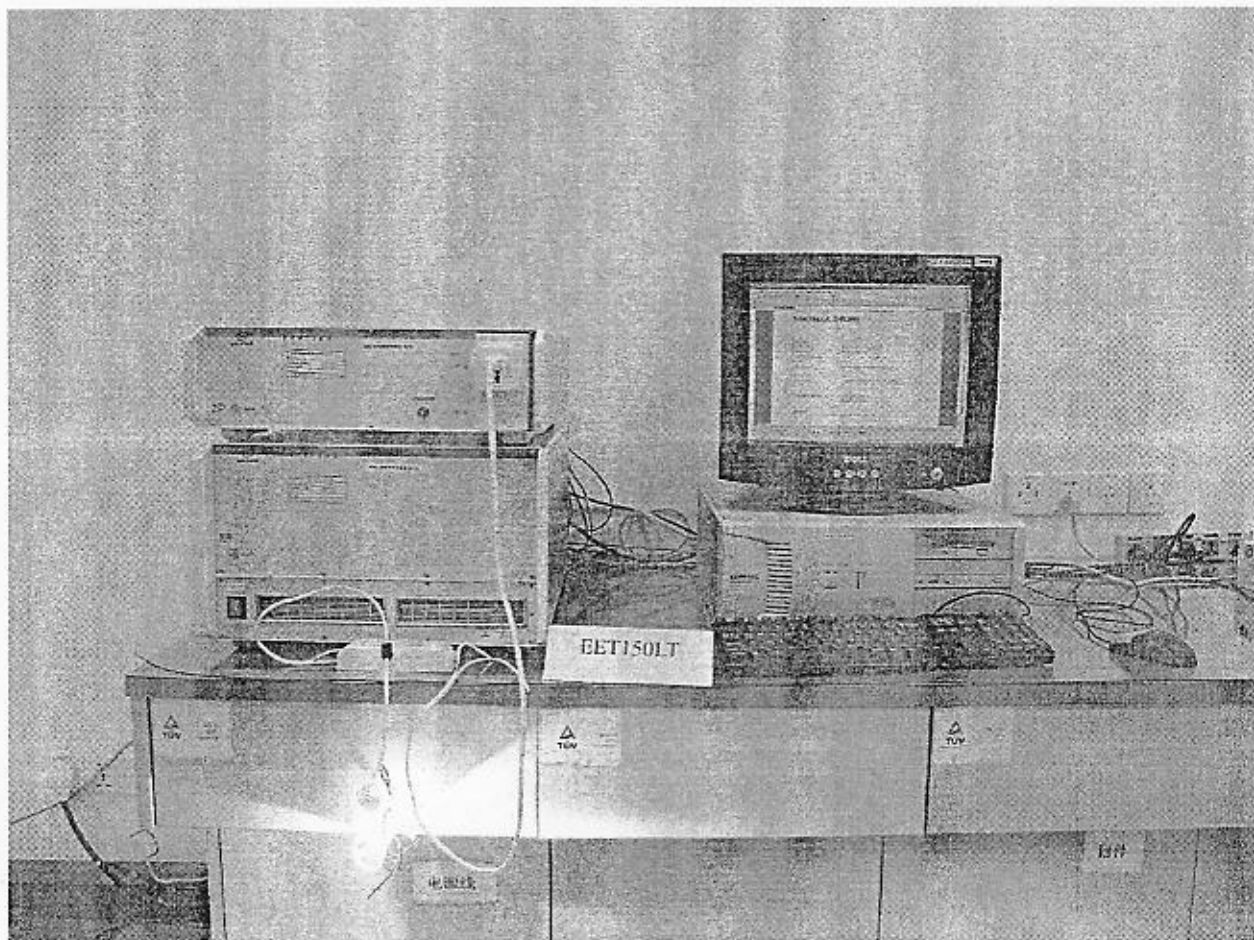


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7. Photographs of the Test Set-Up

Photograph 1: Set-up for Harmonics



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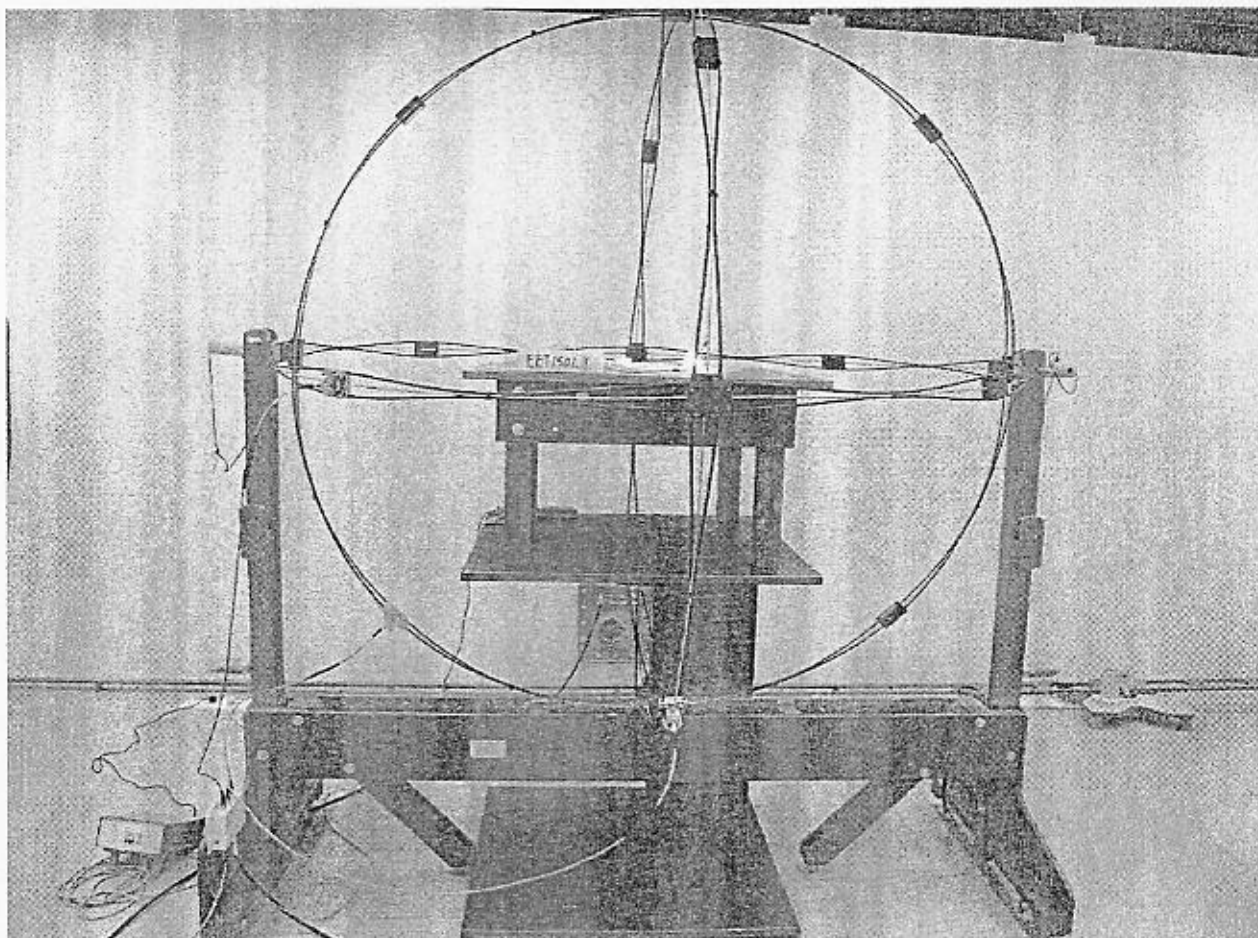
Photograph 2: Set-up for Terminal Disturbance Voltage on AC Mains



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Photograph 3: Set-up for Radiated Electromagnetic Disturbances



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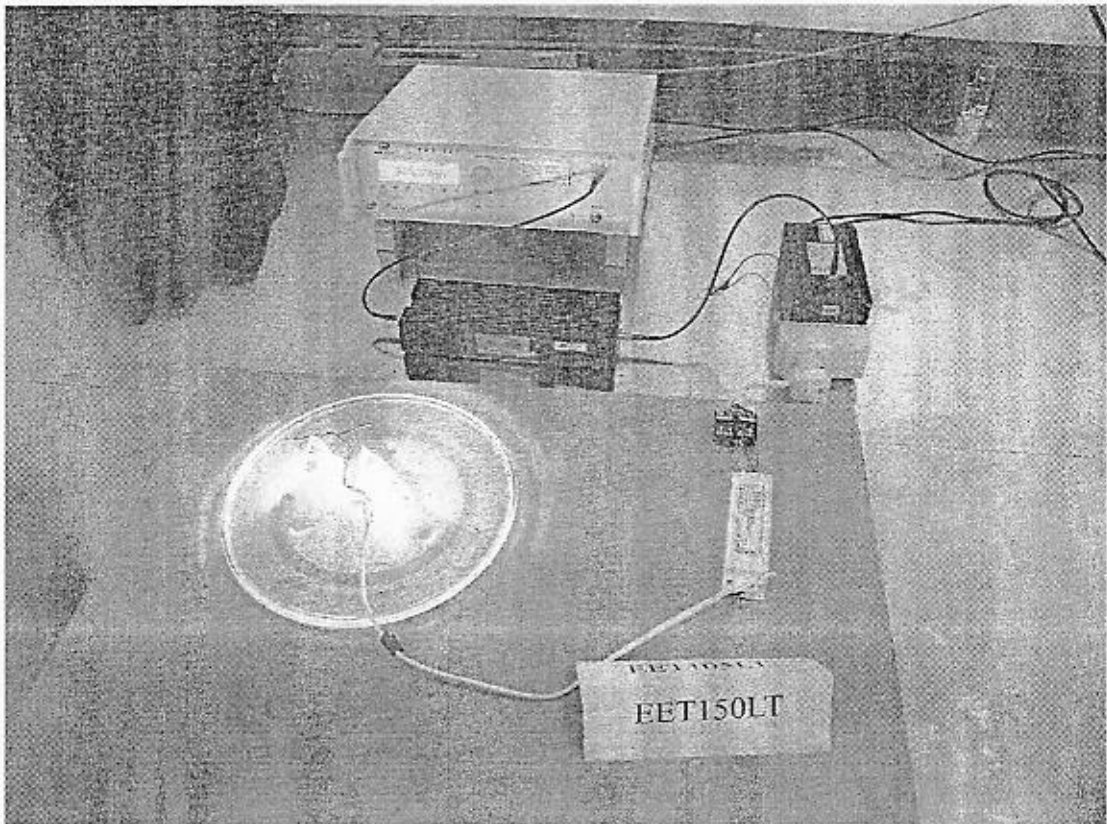
Photograph 4: Set-up for Radiated Susceptibility



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



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Photograph 6: Set-up for Electrical Fast Transients, Surge and Voltage Dip and Interruptions on AC Power Line



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Photograph 7: Set-up for Electrostatic Discharge



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