



Certificate of Conformity

The products

EUT : **Wall Mounted Power Supply Center**
Trade Name : **SC&T**
Model No. : **PW816X-XXXX**

which produced by

SMART CABLING & TRANSMISSION CORP
10F, NO.493, Chung-Cheng Rd., Hsin Tien City,
Taipei County, 231 Taiwan

Has been tested by Electronics Testing Center, Taiwan ETC
And was found to comply with the EMC requirements of Directive 2004/108/EC on the basis of

EN 61204-3:2000

IEC CISPR 22:2005/A1:2005/A2:2006 (Class B),
IEC61000-3-2:2005/A1:2008, IEC61000-3-3:2008
EC 61000-4-2:2008, IEC 61000-4-3:2006/A1:2007
IEC 61000-4-4:2004, IEC 61000-4-5:2005
IEC 61000-4-6:2008, IEC 61000-4-11:2004

Signature

Will Yauo

Manager of EMC Testing Department II
Electronics Testing Center, Taiwan

Report Number : 09-05-RBF-071

Date of Issue: May 20, 2009

- Note** : 1. The results of the Test Report relate only to the items tested.
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EMC

TEST REPORT

Responsible Party : ***SMART CABLING & TRANSMISSION CORP***
Manufacturer : ***SMART CABLING & TRANSMISSION CORP***
Description of Product : ***Wall Mounted Power Supply Center***
Trade Name : ***SC&T***
Model No. : ***PW816X-XXXX***
Test Report File No. : ***09-05-RBF-071***
Date Test Item Received : ***May 09, 2009***
Date Test Campaign Completed : ***May 20, 2009***
Date of Issue : ***May 20, 2009***

Test Performed by

ELECTRONICS TESTING CENTER (ETC), TAIWAN

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1 TEST REPORT CERTIFICATION

Applicant : SMART CABLING & TRANSMISSION CORP
10F, NO.493, Chung-Cheng Rd., Hsin Tien City, Taipei County, 231
Taiwan

Manufacturer : SMART CABLING & TRANSMISSION CORP
10F, NO.493, Chung-Cheng Rd., Hsin Tien City, Taipei County, 231
Taiwan

Type of EUT : Wall Mounted Power Supply Center

Trade Name : SC&T

Model No. : PW816X-XXXX

Test specifications :
Emissions : IEC CISPR 22:2005/A1:2005/A2:2006 (Class B)
IEC61000-3-2:2005/A1:2008
IEC61000-3-3:2008

Immunity : IEC 61000-4-2:2008
IEC 61000-4-3:2006/A1:2007
IEC 61000-4-4:2004
IEC 61000-4-5:2005
IEC 61000-4-6:2008
IEC 61000-4-11:2004

Regulations applied : EN 61204-3:2000

The testing described in this report has been carried out to the best of our knowledge and ability, and our responsibility is limited to the exercise of reasonable care. This certification is not intended to believe the sellers from their legal and/or contractual obligations.

Test Engineer : Tien Lu Liao
(Tien Lu Liao)

Check By : Charles Wang
(Charles Wang)

Approve & Authorized : Will Yauo
Will Yauo, Manager
EMC Dept. II of ELECTRONICS
TESTING CENTER, TAIWAN

Laboratory Introduction: Electronics Testing Center, Taiwan is recognized, filed and mutual recognition arrangement as following:

- ① ISO9002 : BSMI, TÜV Product Service
- ② ISO/IEC 17025 : BSMI, CNLA, DGT, NVLAP, CCIBLAC, UL, Compliance
- ③ EN45001 : TÜV Rheinland, NEMKO, FIMKO, SGS
- ④ Filing : FCC, Industry Canada, VCCI
- ⑤ MRA : Australia, Hong Kong, New Zealand, Singapore, USA, Japan, Korea, China, APLAC through CNLA

2 GENERAL INFORMATIONS

2.1 Description of EUT:

Non-load output: AC 27V

Individual protected PTC type fused outputs.

Outputs PTC fused rated 1.1Amps at 2.5A/4sec.

A single channel “short” may cause a temporary disconnection (1 sec.) of other channels.

At least one second to auto rework, after removing an overload condition.

This product does not contain a built in main power switch, take additional care when

Connecting or isolating incoming mains supply. Note all warning labels.

2.2 Related Information of EUT:

Size of EUT : 224mm x 200mm x 60mm

Power : 230Vac, 50Hz

Cables dedicated for EUT:

Power Cord : Nonshielded Shielded None, Length: 1.8 m

* For more detailed features , please refer to *User's Manual*.

2.3 Tested Configuration:

The EUT connected with other devices.

Following peripheral devices and interface cables were connected during the measurement:

Description	Model	Manufacturer	Cable
Wall Mounted Power Supply Center*	PW816X-XXXX	SMART CABLING & TRANSMISSION CORP	1.8m Unshielded AC Adapter Power Cord 1.0m Unshielded AC output Cable

2.4 Deviation Record:

No deviations were required.

2.5 Modification Record:

No modifications were required. (That is the EUT complied with the requirement as tested.)

3 SUMMARY OF TEST RESULTS

3.1 Emissions:

3.1.1 Conducted Emissions

– PASS (Neutral)

Minimum EMI Margin(QP) to the limit: -34.3 dB at 0.185 MHz

– PASS (Line)

Minimum EMI Margin(QP) to the limit: -33.1 dB at 0.189 MHz

3.1.2 Radiated Emissions

– PASS (Horizontal)

Minimum EMI Margin to the limit: ---- dB at 30.000 MHz

– PASS (Vertical)

Minimum EMI Margin to the limit: ---- dB at 30.000 MHz

3.1.3 Harmonics Current Emissions

– PASS

The harmonics current values were under the limits of the class A equipment of the IEC 61000-3-2.

3.1.4 Voltage Fluctuations and Flicker

– PASS

The voltage fluctuations and flicker values were under the limits of the IEC 61000-3-3 requirements.

3.2 Immunity:

3.2.1 Immunity Criteria:

The results of all of the immunity tests performed on the EUT were evaluated according to the following criteria, and according to the manufacturer's specifications for the EUT:

Performance criterion A : The EUT continued to operate as intended. No degradation of performance or loss of function was allowed below a performance level specified by the manufacturer, when the EUT was used as intended.

Performance criterion B : The EUT continued to operate as intended after the test. No degradation of performance or loss of function was allowed below a performance level specified by the manufacturer, when the EUT was used as intended. During the test, degradation of performance was however allowed. No change of actual operating state or stored data was allowed.

Performance criterion C: Temporary loss of function was allowed, provided the function was self recoverable or could be restored by the operation of the controls.

3.2.2 Electrostatic Discharge Immunity

Requirement :Criterion B (or better)

- | | |
|--|-------------------------|
| <input checked="" type="checkbox"/> - No Degradation of Function | - Satisfies Criterion A |
| <input type="checkbox"/> - Distortion of Function | - Satisfies Criterion B |
| <input type="checkbox"/> - Error of Function | - Satisfies Criterion C |

3.2.3 RF Radiated Fields Immunity:

Requirement :Criterion A

- | | |
|--|-------------------------|
| <input checked="" type="checkbox"/> - No Degradation of Function | - Satisfies Criterion A |
| <input type="checkbox"/> - Distortion of Function | - Satisfies Criterion B |
| <input type="checkbox"/> - Error of Function | - Satisfies Criterion C |

3.2.4 EFT/Burst Immunity:

Requirement :Criterion B (or better)

- | | |
|--|-------------------------|
| <input checked="" type="checkbox"/> - No Degradation of Function | - Satisfies Criterion A |
| <input type="checkbox"/> - Distortion of Function | - Satisfies Criterion B |
| <input type="checkbox"/> - Error of Function | - Satisfies Criterion C |

3.2.5 Surge Immunity: - No Degradation of Function - Distortion of Function - Error of Function**Requirement :Criterion B (or better)**

- Satisfies Criterion A

- Satisfies Criterion B

- Satisfies Criterion C

3.2.6 RF Common Model Immunity: - No Degradation of Function - Distortion of Function - Error of Function**Requirement :Criterion A**

- Satisfies Criterion A

- Satisfies Criterion B

- Satisfies Criterion C

3.2.7 Voltage Interruptions and Voltage Dips Immunity: - No Degradation of Function - Distortion of Function - Error of Function**Requirement :Criterion B (or better)**

- Satisfies Criterion A

- Satisfies Criterion B

- Satisfies Criterion C

4 TEST DATA & RELATED INFORMATIONS

4.1 Emissions:

4.1.1 Conducted Emissions Test :

4.1.1.1 Conducted Emissions Test Data:

Operating Conditions of The EUT : Operation

Test Date : May 19, 2009

Test Specification	IEC CISPR 22:2005/A1:2005/A2:2006 (Class B)			
Equipment	Manufacturer	Model No.	Calibration Date	Next Cal. Date
EMI Test Receiver	Rohde & Schwarz	ESCI	2009/02/04	2010/02/04
LISN	EMCO	3625/2	2009/02/06	2010/02/06
LISN	Rohde & Schwarz	ESH2-Z5	2008/06/27	2009/06/27
Climatic Condition	Ambient Temperature: <u>26</u> °C		Relative Humidity: <u>56</u> %RH	
Power Supply System	AC Power : <u>230</u> Vac <u>50</u> Hz			
Test Set-up	Table-top Equipment			

Test data see the next pages.

Mode: Operation

Neutral

Frequency (MHz)	Meter Reading (dB μ V)		Factor (dB)	Result (dB μ V)		Limit (dB μ V)		Margin (dB μ V)	
	Q.P	AVG		Q.P	AVG	Q.P	AVG	Q.P	AVG
0.158	11.5	----	0.2	11.7	----	65.6	55.6	-53.9	----
0.185	29.8	----	0.2	30.0	----	64.3	54.3	-34.3	----
0.232	24.2	----	0.2	24.4	----	62.4	52.4	-38.0	----
0.283	19.4	----	0.2	19.6	----	60.7	50.7	-41.1	----
0.666	13.8	----	0.3	14.1	----	56.0	46.0	-41.9	----
22.031	18.3	----	1.4	19.7	----	60.0	50.0	-40.3	----

Mode: Operation

Line

Frequency (MHz)	Meter Reading (dB μ V)		Factor (dB)	Result (dB μ V)		Limit (dB μ V)		Margin (dB μ V)	
	Q.P	AVG		Q.P	AVG	Q.P	AVG	Q.P	AVG
0.189	30.8	----	0.2	31.0	----	64.1	54.1	-33.1	----
0.232	24.3	----	0.2	24.5	----	62.4	52.4	-37.9	----
0.267	9.4	----	0.2	9.6	----	61.2	51.2	-51.6	----
0.662	11.7	----	0.3	12.0	----	56.0	46.0	-44.0	----
18.188	16.3	----	1.3	17.6	----	60.0	50.0	-42.4	----
21.125	11.9	----	1.4	13.3	----	60.0	50.0	-46.7	----

 Notes: 1) Place of measurement: EMC LAB. of the ETC

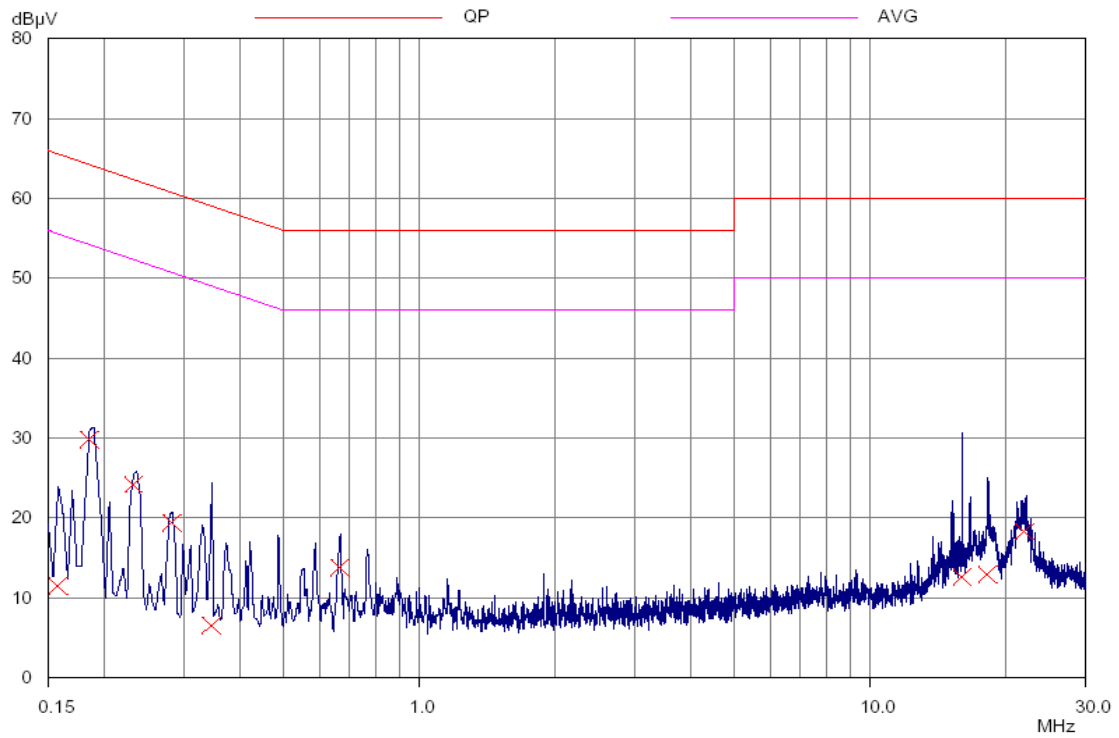
2) The EUT was placed 0.8m above reference ground plane.

3) The symbol of "----" means the Q.P. value is under the limit for AVG. so, the AVG. value doesn't need to be measured.

4) The expanded uncertainty of the conducted emission tests is 2.45 dB.

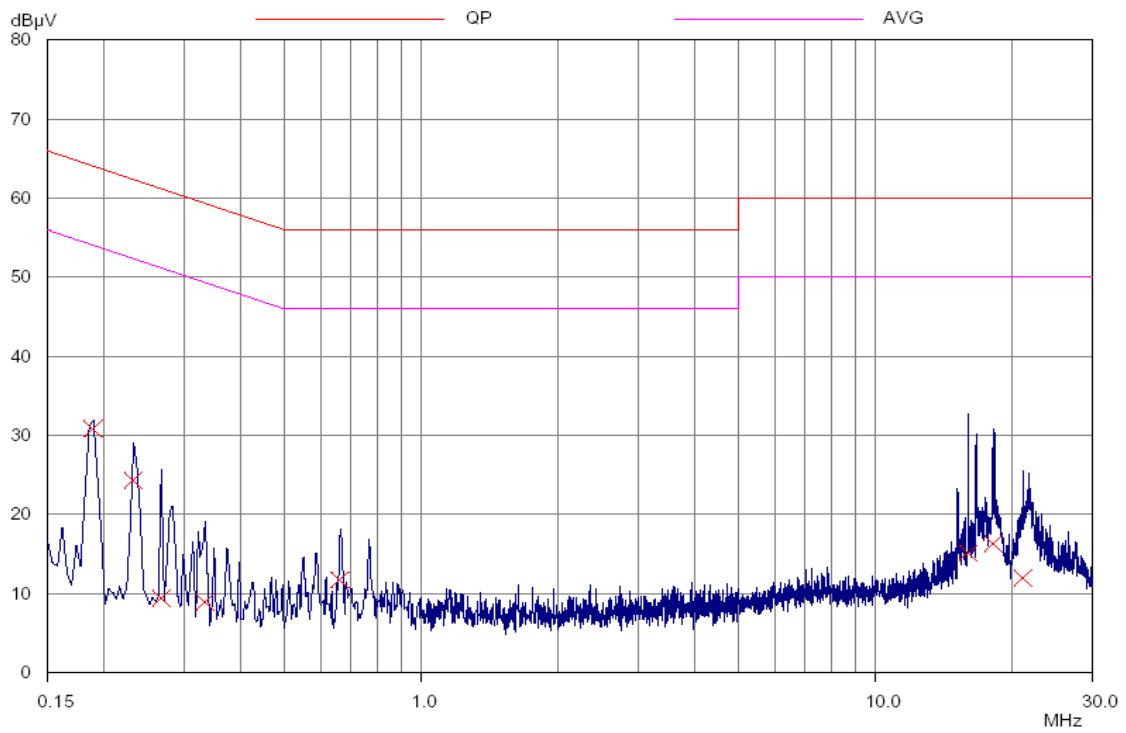
Mode: Operation

Neutral



Mode: Operation

Line



4.1.1.2 Conducted Emissions Test Setup Photos :



4.1.2 Radiated Emissions Test :

4.1.2.1 Radiated Emissions Test Data:

Operating Conditions of The EUT : Operation

Test Date : May 19, 2009

Test Specification	IEC CISPR 22:2005/A1:2005/A2:2006 (Class B)			
Equipment	Manufacturer	Model No.	Calibration Date	Next Cal. Date
Test Receiver	Rohde & Schwarz	ESCS 30	2009/01/26	2010/01/25
Amplifier	HP	8447D	2009/05/07	2010/05/07
Spectrum	Advantest	R3162	2009/02/03	2010/02/03
Bi-Log Antenna	Schaffner	CBL 6111	2009/05/06	2010/05/06
Climatic Condition	Ambient Temperature: <u>27</u> °C		Relative Humidity: <u>59</u> %RH	
Power Supply System	AC Power : <u>230</u> Vac <u>50</u> Hz			
Test Set-up	Table-top Equipment			

Test data see the next pages.

Mode: Operation

Ant-Pol: Horizontal

Emission Frequency (MHz)	Meter Reading (dB μ V)	Corr'd Factor (dB)	Results (dB μ V/m)	Limit @10m (dB μ V/m)	Margin (dB)
30.000	---	-9.0	---	30.0	---
50.000	---	-18.8	---	30.0	---
80.000	---	-16.5	---	30.0	---
150.000	---	-12.4	---	30.0	---
250.000	---	-9.2	---	37.0	---
500.000	---	-4.2	---	37.0	---
800.000	---	0.5	---	37.0	---

Mode: Operation

Ant-Pol: Vertical

Emission Frequency (MHz)	Meter Reading (dB μ V)	Corr'd Factor (dB)	Results (dB μ V/m)	Limit @10m (dB μ V/m)	Margin (dB)
30.000	---	-9.0	---	30.0	---
50.000	---	-18.8	---	30.0	---
80.000	---	-16.5	---	30.0	---
150.000	---	-12.4	---	30.0	---
250.000	---	-9.2	---	37.0	---
500.000	---	-4.2	---	37.0	---
800.000	---	0.5	---	37.0	---

Notes: 1) Place of Measurement: Measuring site of the ETC

2) Measurement Distance: 10 m

3) Height of table on which the EUT was placed: 0.8 m

4) Height of Receiving Antenna: 1 - 4 m

5) Remark “----“ means that the emissions level is too low to be measured.

6) The expanded uncertainty of the radiated emission tests is 3.53 dB.

4.1.2.2 Radiated Emissions Test Setup Photo:



4.1.3 Harmonics Current Emissions Test :

4.1.3.1 Harmonics Current Emissions Test Data:

Operating Conditions of The EUT : Operation Mode

Test Date : May 20, 2009

Test Specification	IEC61000-3-2:2005/A1:2008			
Equipment	Manufacturer	Model No.	Calibration Date	Next Cal. Date
EMC Immunity tester	EMC-Partner	Harmonics-1000	2008/12/10	2009/12/10
Climatic Condition	Ambient Temperature: <u>26</u> °C		Relative Humidity: <u>52</u> %RH	
Power Supply System	AC Power : <u>230</u> Vac <u>50</u> Hz			
Test Set-up	Table-top Equipment			

Test data see the next pages.

Date : 2009/5/18 10:21:45 V4.17

Urms = 229.9V Freq = 49.987 Range: 2A
 Irms = 0.222A Ipk = 1.145A cf = 5.163
 P = 18.11W S = 50.97VA pf = 0.355
 THDi = 84.90% THDu = 0.10% Class A
 Test - Time : 3min -100%
 Test completed, Result: PASSED

Order	Freq. [Hz]	Iavg [A]	I _{max} [A]	Limit [A]	Order	Freq. [Hz]	Iavg [A]	I _{max} [A]	Limit [A]
1	50	0.1137	0.1146		21	1050	0.006	0.0061	0.1071
2	100	0.0781	0.0784	1.08	22	1100	0.0054	0.0054	0.0836
3	150	0.0749	0.0752	2.3	23	1150	0	0.0048	0.0978
4	200	0.0693	0.0695	0.43	24	1200	0	0.0043	0.0767
5	250	0.0636	0.0637	1.14	25	1250	0	0.0038	0.09
6	300	0.057	0.0571	0.3	26	1300	0	0.0033	0.0708
7	350	0.0507	0.0509	0.77	27	1350	0	0.0028	0.0833
8	400	0.0442	0.0444	0.23	28	1400	0	0.0024	0.0657
9	450	0.0383	0.0385	0.4	29	1450	0	0.0022	0.0776
10	500	0.0327	0.0328	0.184	30	1500	0	0.0018	0.0613
11	550	0.0278	0.028	0.33	31	1550	0	0.0016	0.0726
12	600	0.0235	0.0236	0.1533	32	1600	0	0.0013	0.0575
13	650	0.0198	0.0199	0.21	33	1650	0	0.0012	0.0682
14	700	0.0167	0.0167	0.1314	34	1700	0	0.0011	0.0541
15	750	0.0141	0.0142	0.15	35	1750	0	0.001	0.0643
16	800	0.012	0.0121	0.115	36	1800	0	0.0009	0.0511
17	850	0.0103	0.0104	0.1324	37	1850	0	0.0007	0.0608
18	900	0.0089	0.0089	0.1022	38	1900	0	0.0006	0.0484
19	950	0.0078	0.0078	0.1184	39	1950	0	0.0005	0.0577
20	1000	0.0068	0.007	0.092	40	2000	0	0.0005	0.046

4.1.3.2 Harmonics Current Emissions Test Setup Photos :



4.1.4 Voltage Fluctuations and Flicker Test :

4.1.4.1 Voltage Fluctuations and Flicker Test Data:

Operating Conditions of The EUT : Operation Mode

Test Date : May 19, 2009

Test Specification	IEC61000-3-3:2008			
Equipment	Manufacturer	Model No.	Calibration Date	Next Cal. Date
EMC Immunity tester	EMC-Partner	Harmonics-1000	2008/12/10	2009/12/10
Climatic Condition	Ambient Temperature: <u>26</u> °C		Relative Humidity: <u>52</u> %RH	
Power Supply System	AC Power : <u>230</u> Vac <u>50</u> Hz			
Test Set-up	Table-top Equipment			

	Test Data	Limit	Pass or Fail
Plt	0.072	0.65	Pass
Pst	0.072	1.00	Pass
dt	0.00 ms	500 ms	Pass
dmax	0.00 %	4.0 %	Pass
dc	0.03 %	3.3 %	Pass

4.1.4.2 Voltage Fluctuations and Flicker Test Setup Photos :



4.2 Immunity:

4.2.1 Electrostatic Discharge Immunity Test :

4.2.1.1 Electrostatic Discharge Immunity Test Data:

Operating Conditions of The EUT : Operation

Test Date : May 19, 2009

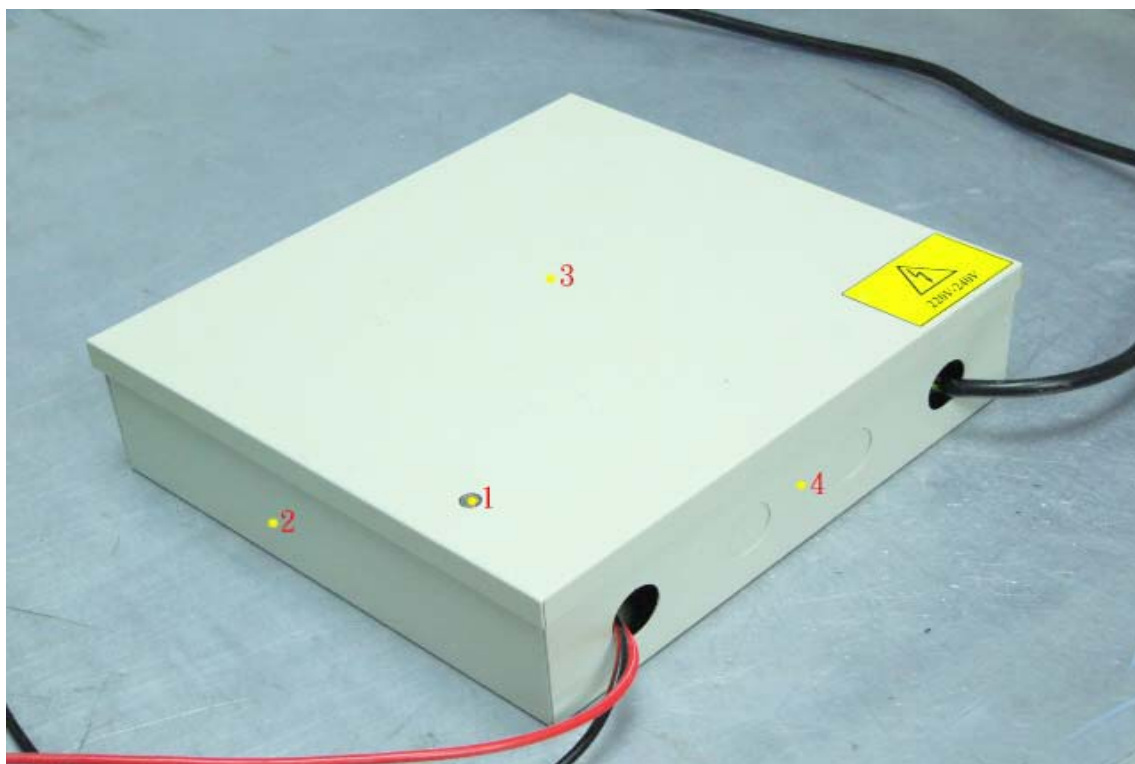
Test Specification	IEC 61000-4-2:2008			
Equipment	Manufacturer	Model No.	Calibration Date	Next Cal. Date
Noise Ken	ESD Tester	ESS-2002	2008/09/18	2009/09/18
Climatic Condition	Ambient Temperature: <u>26</u> °C		Relative Humidity: <u>52</u> %RH	
	Atmospheric Pressure : 990 mbar			
Power Supply System	AC Power : <u>230</u> Vac <u>50</u> Hz			
Test Set-up	Table-top Equipment			

Energy-Storage Capacitor : <u>150</u> pF	Contact Discharge Times : <u>10</u> times/each condition															
Discharge Resistor : <u>330</u> Ω	Air Discharge Times : <u>10</u> times/each condition															
\ Discharge Mode	Contact Discharge								Air Discharge							
\ ESD Voltage	<u>2</u> kV		<u>4</u> kV		___ kV		___ kV		<u>2</u> kV		<u>4</u> kV		<u>8</u> kV		___ kV	
\ Points\ Result\ Polarity	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-
VCP	A	A	A	A	---	---	---	---	---	---	---	---	---	---	---	---
HCP	A	A	A	A	---	---	---	---	---	---	---	---	---	---	---	---
P ₁	---	---	---	---	---	---	---	---	A	A	A	A	A	A	---	---
P ₂ .P ₁₀	A	A	A	A	---	---	---	---	---	---	---	---	---	---	---	---

Note : “---” means the test could not be carrier out.

“ A ” means the EUT function was correct during the test

TEST POINTS



4.2.1.2 Electrostatic Discharge Immunity Test Setup Photos :



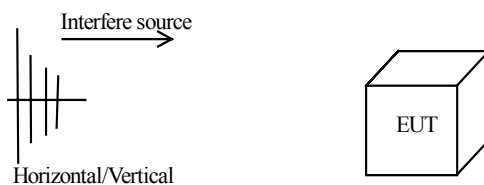
4.2.2 RF Radiated Fields Immunity Test :

4.2.2.1 RF Radiated Fields Immunity Test Data:

Operating Conditions of The EUT : Operation Mode

Test Date : May 19, 2009

Test Specification	IEC 61000-4-3:2006/A1:2007			
Equipment	Manufacturer	Model No.	Calibration Date	Next Cal. Date
Antenna	AR	AT5080	N/A	N/A
signal Generator	Aglient	E4421B	2008/08/07	2009/08/07
Amplifier	Ophir	5172	N/A	N/A
Amplifier	Ophir	5127	N/A	N/A
POWER METER	Booton	4232A	2008/08/08	2009/08/08
Climatic Condition	Ambient Temperature: <u>26</u> °C		Relative Humidity: <u>52</u> %RH	
Power Supply System	AC Power : <u>230</u> Vac <u>50</u> Hz			
Test Set-up	Table-top Equipment			



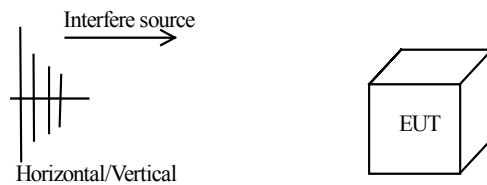
Frequency Range: <u>80</u> MHz ~ <u>1000</u> MHz	Field Strength: <u>3</u> V/m	Modulation (AM 1kHz 80%)	
Sweep Rate : $\leq 1.5 \times 10^{-3}$ decades/s	Step Size : ≤ 1 % of preceding frequency value	Dwell time : <u>2.9</u> s	
Frequency Range (MHz)	Antenna-Polarization	Direction of Device	Test Result
80~1000	Horizontal	front	A
		rear	A
		left	A
		right	A
80~1000	Vertical	front	A
		rear	A
		left	A
		right	A

Note : "A" means the EUT function was correct during the test .

Operating Conditions of The EUT : Operation Mode

Test Date : May 19, 2009

Test Specification	IEC 61000-4-3:2006/A1:2007			
Equipment	Manufacturer	Model No.	Calibration Date	Next Cal. Date
Antenna	AR	AT5080	N/A	N/A
signal Generator	Aglient	E4421B	2008/08/07	2009/08/07
Amplifier	Ophir	5172	N/A	N/A
Amplifier	Ophir	5127	N/A	N/A
POWER METER	Booton	4232A	2008/08/08	2009/08/08
Climatic Condition	Ambient Temperature: <u>26</u> °C		Relative Humidity: <u>52</u> %RH	
Power Supply System	AC Power : <u>230</u> Vac <u>50</u> Hz			
Test Set-up	Table-top Equipment			



Frequency Range:	900MHz (Keyed carrier)	Field Strength:	<u>3</u> V/m	Repetition Frequency	200Hz
				Duty Cycle	50%
Sweep Rate	: $\leq 1.5 \times 10^{-3}$ decades/s	Step Size	: $\leq 1\%$ of preceding frequency value	Dwell time	: <u>2.9</u> s
Frequency Range (MHz)	Antenna-Polarization	Direction of Device		Test Result	
900	Horizontal	front		A	
		rear		A	
		left		A	
		right		A	
900	Vertical	front		A	
		rear		A	
		left		A	
		right		A	

Note : "A" means the EUT function was correct during the test .

4.2.2.2 RF Radiated Fields Immunity Test Setup Photos :



4.2.3 EFT/Burst Immunity Test :

4.2.3.1 EFT/Burst Immunity Test Data:

Operating Conditions of The EUT : Operation Mode

Test Date : May 19, 2009

Test Specification	IEC 61000-4-4:2004			
Equipment	Manufacturer	Model No.	Calibration Date	Next Cal. Date
EMC Immunity Tester	EMC-PARTNER	TRANSIENT-1000	2009/02/23	2010/02/23
Climatic Condition	Ambient Temperature: <u>26</u> °C		Relative Humidity: <u>52</u> %RH	
	Atmospheric Pressure : 990 mbar			
Power Supply System	AC Power : <u>230</u> Vac <u>50</u> Hz			
Test Set-up	Table-top Equipment			

Pulse :5/50ns Burst :15m/300ms		<u>5kHz</u> below and equal 2.0kV	Test time: <u>1</u> min/each condition
\Voltage\Polarity\ \Test Point\Mode\Result\		<u>1.0 kV</u>	
		+	-
Power Line	L	A	A
	N	A	A
	L-N	A	A
	PE	A	A
	L-PE	A	A
	N-PE	A	A
	L-N-PE	A	A

Note : “ A ” means the EUT function was correct during the test.

4.2.3.2 EFT/Burst Immunity Test Setup Photos :

4.2.4 Surge Immunity Test :
4.2.4.1 Surge Immunity Test Data:

 Operating Conditions of The EUT : Operation Mode

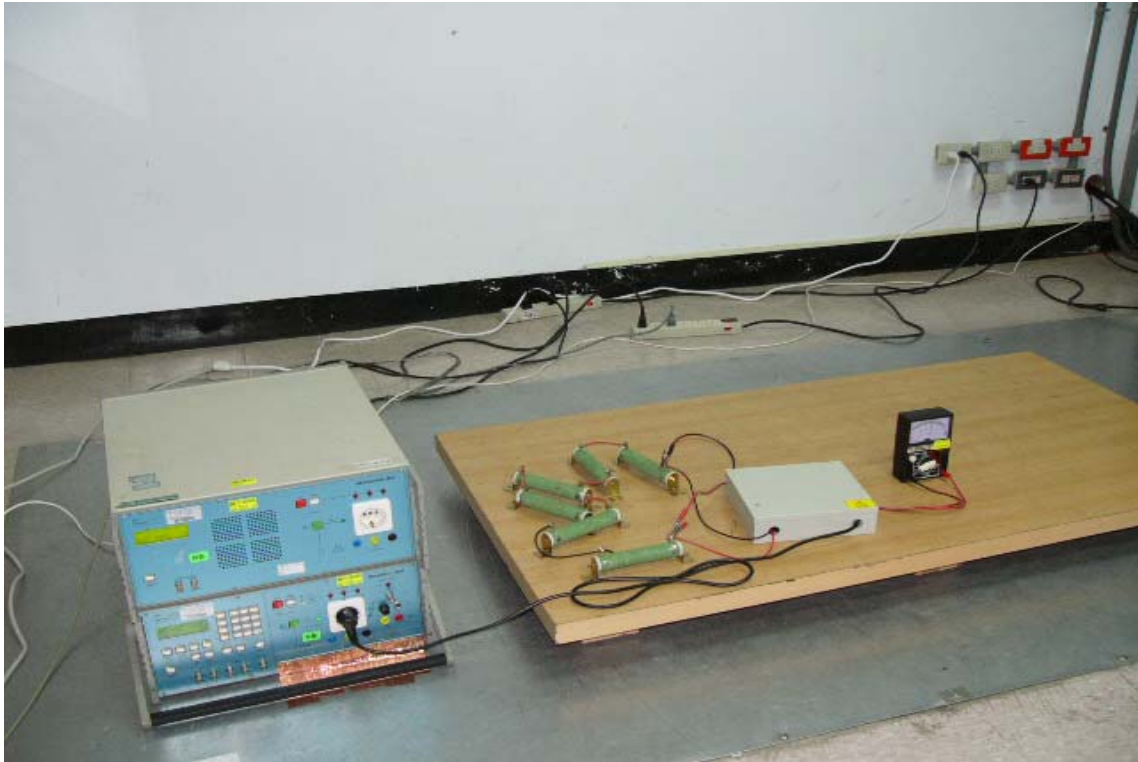
Test Date : May 19, 2009

Test Specification	IEC 61000-4-5:2005			
Equipment	Manufacturer	Model No.	Calibration Date	Next Cal. Date
EMC Immunity Tester	EMC-PARTNER	TRANSIENT-1000	2009/02/23	2010/02/23
Climatic Condition	Ambient Temperature: <u>26</u> °C		Relative Humidity: <u>52</u> %RH	
	Atmospheric Pressure : 990 mbar			
Power Supply System	AC Power : <u>230</u> Vac <u>50</u> Hz			
Test Set-up	Table-top Equipment			

Waveform : 1.2/50µs(8/20µs)		Repetition rate : <u>60</u> sec		Times : 5 time/each condition			
\Voltage \Mode \Polarity		\Phase \Result	0°	90°	180°	270°	360°
0.5kV	L – N	+	A	A	A	A	A
		–	A	A	A	A	A
1.0kV	L – N	+	A	A	A	A	A
		–	A	A	A	A	A
0.5kV	L – PE	+	A	A	A	A	A
		–	A	A	A	A	A
	N – PE	+	A	A	A	A	A
		–	A	A	A	A	A
1.0kV	L – PE	+	A	A	A	A	A
		–	A	A	A	A	A
	N – PE	+	A	A	A	A	A
		–	A	A	A	A	A
2.0kV	L – PE	+	A	A	A	A	A
		–	A	A	A	A	A
	N – PE	+	A	A	A	A	A
		–	A	A	A	A	A

Note : “A” means the EUT function was correct during the test.

4.2.4.2 Surge Immunity Test Setup Photos :



4.2.5 RF Common Mode Immunity Test :

4.2.5.1 RF Common Mode Immunity Test Data:

Operating Conditions of The EUT : Operation Mode

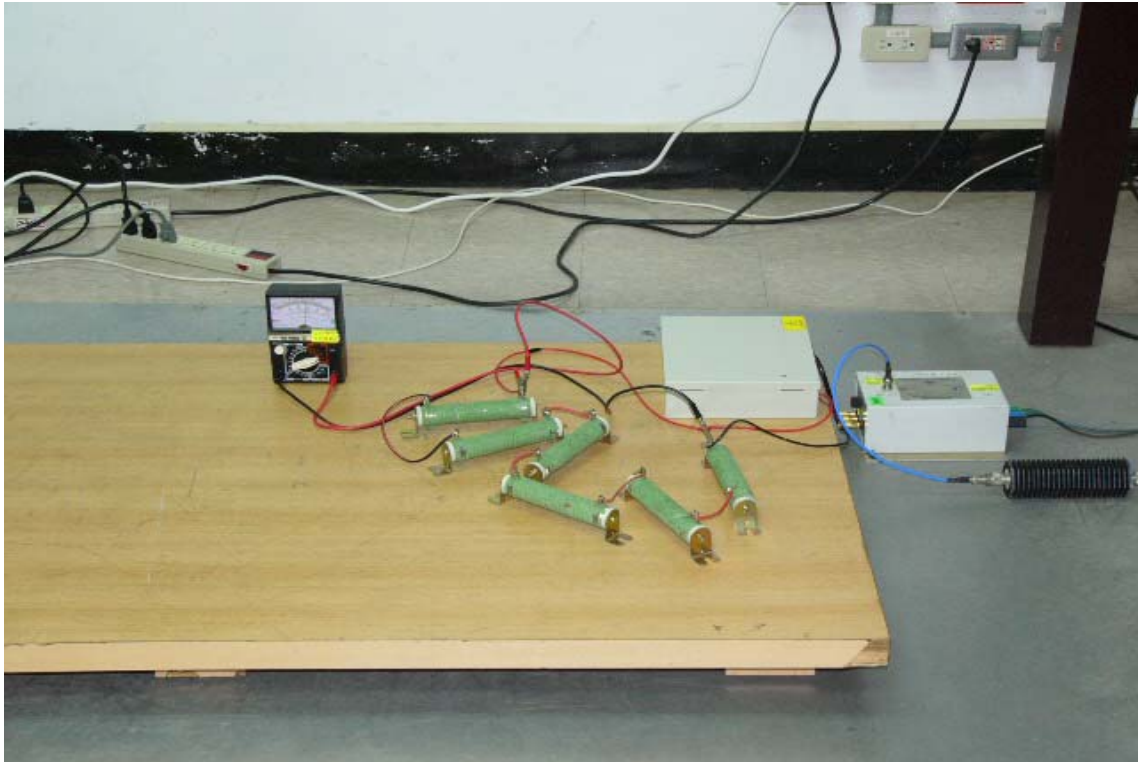
Test Date : May 19, 2009

Test Specification	IEC 61000-4-6:2008			
Equipment	Manufacturer	Model No.	Calibration Date	Next Cal. Date
CS Tester	FRANKONIA	CIT-10	2008/09/24	2009/09/24
M2+3 CDN-KIT	FRANKONIA	M2+3	2008/09/19	2009/09/19
Climatic Condition	Ambient Temperature: <u>26</u> °C		Relative Humidity: <u>52</u> %RH	
	Atmospheric Pressure : 990 mbar			
Power Supply System	AC Power : <u>230</u> Vac <u>50</u> Hz			
Test Set-up	Table-top Equipment			

Frequency Range : <u>0.15</u> MHz ~ 80 MHz	Field Strength : <u>3</u> V/m	Modulation (AM 1kHz 80%)	
Sweep Rate : $\leq 1.5 \times 10^{-3}$ decades/s	Step Size : ≤ 1 % of preceding frequency value	Dwell Time : <u>2.9</u> s	
Frequency Range (MHz)	Tested Line	Test Result	
0.15~80	Power Line (M3)	A	

Note : “ A ” means the EUT function was correct during the test .

4.2.5.2 RF Common Mode Immunity Test Setup Photos :



4.2.6 Voltage Interruptions and Voltage Dips Immunity Test :
4.2.6.1 Voltage Interruptions and Voltage Dips Immunity Test Data:

 Operating Conditions of The EUT : Operation Mode

Test Date : May 19, 2009

Test Specification	IEC 61000-4-11:2004			
Equipment	Manufacturer	Model No.	Calibration Date	Next Cal. Date
EMC Immunity Tester	EMC-PARTNER	TRANSIENT-1000	2009/02/23	2010/02/23
Climatic Condition	Ambient Temperature: <u>26</u> °C		Relative Humidity: <u>52</u> %RH	
	Atmospheric Pressure : 990 mbar			
Power Supply System	AC Power : <u>230</u> Vac <u>50</u> Hz			
Test Set-up	Table-top Equipment			

Test mode	Voltage dips	Durations (ms)	Interval(s)	Times	Phase	Result
Voltage interruptions	>95%	5000	10	12	0°/180°	B
Voltage dips in %UT	60%	100	10	12	0°/180°	A
Voltage dips in %UT	30%	10	10	12	0°/180°	A

 Note : “A” means the EUT function was correct during the test
“B” means the EUT’s function was fail during. After test, the EUT operate as intended without operator intervention.

4.2.6.2 Voltage Interruptions and Voltage Dips Immunity Test Setup Photos:



CONSTRUCTED PHOTOS of EUT

(1) Top View of EUT



(2) Side View of EUT

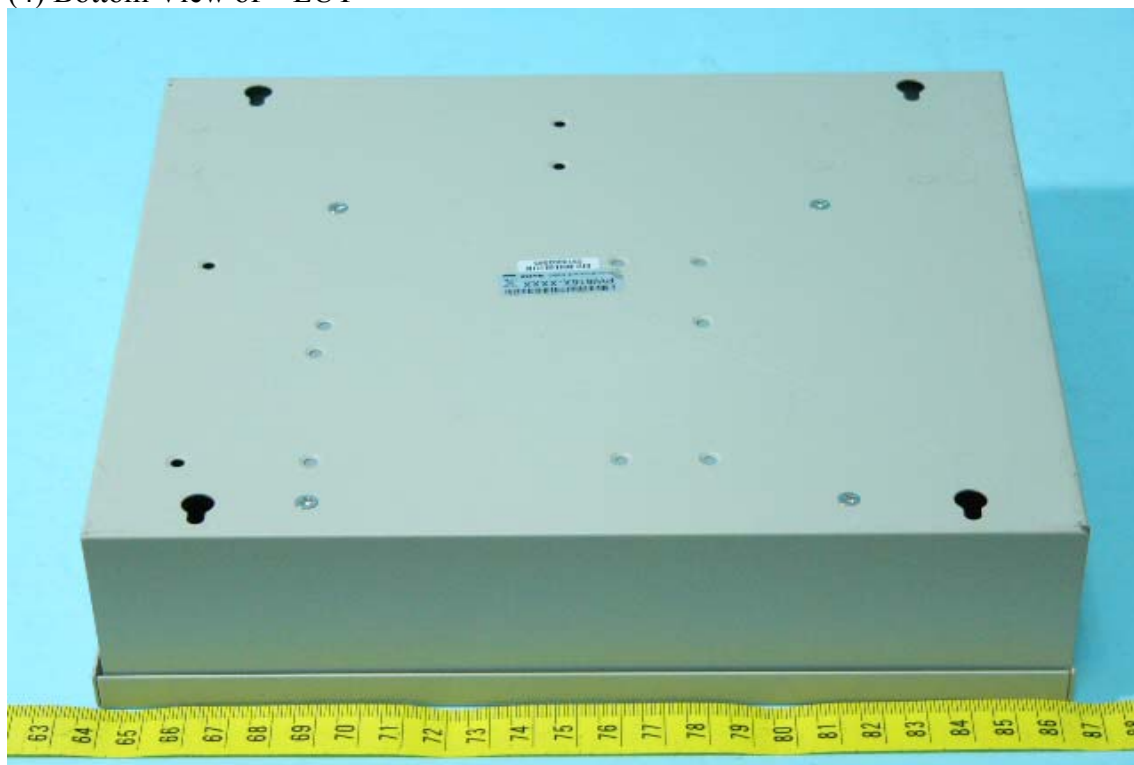


CONSTRUCTED PHOTOS of EUT

(3) Side View of EUT



(4) Bottom View of EUT

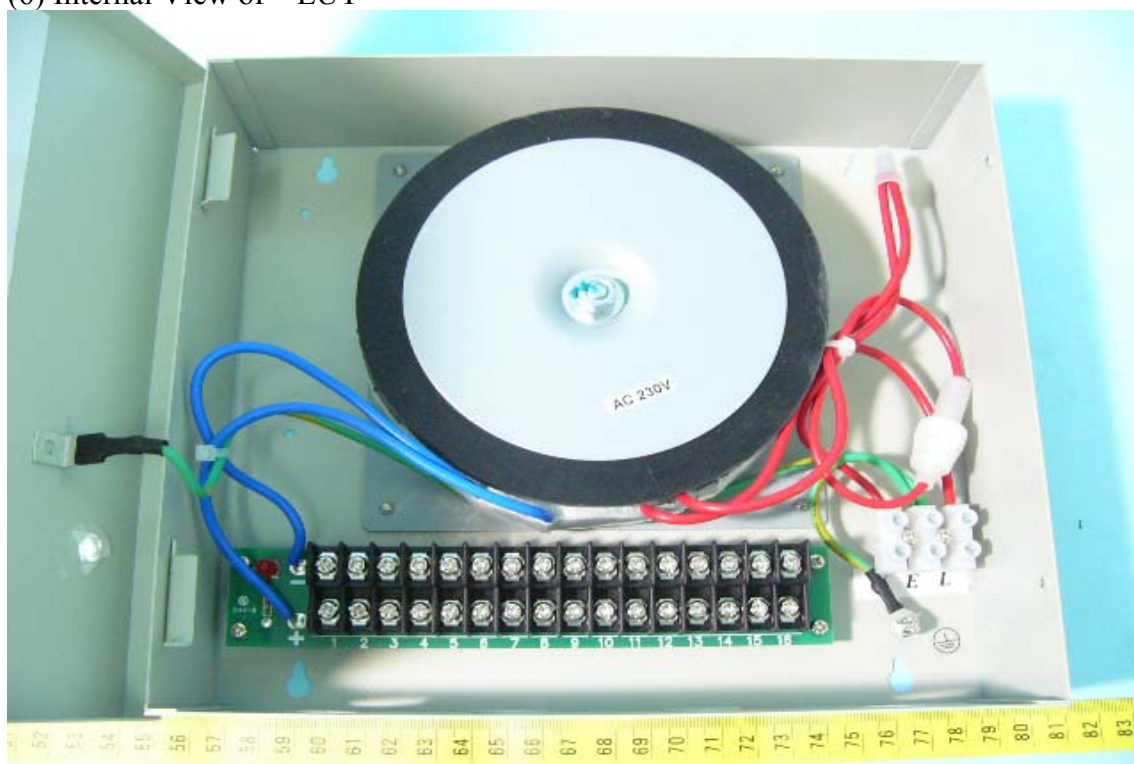


CONSTRUCTED PHOTOS of EUT

(5) Internal View of EUT

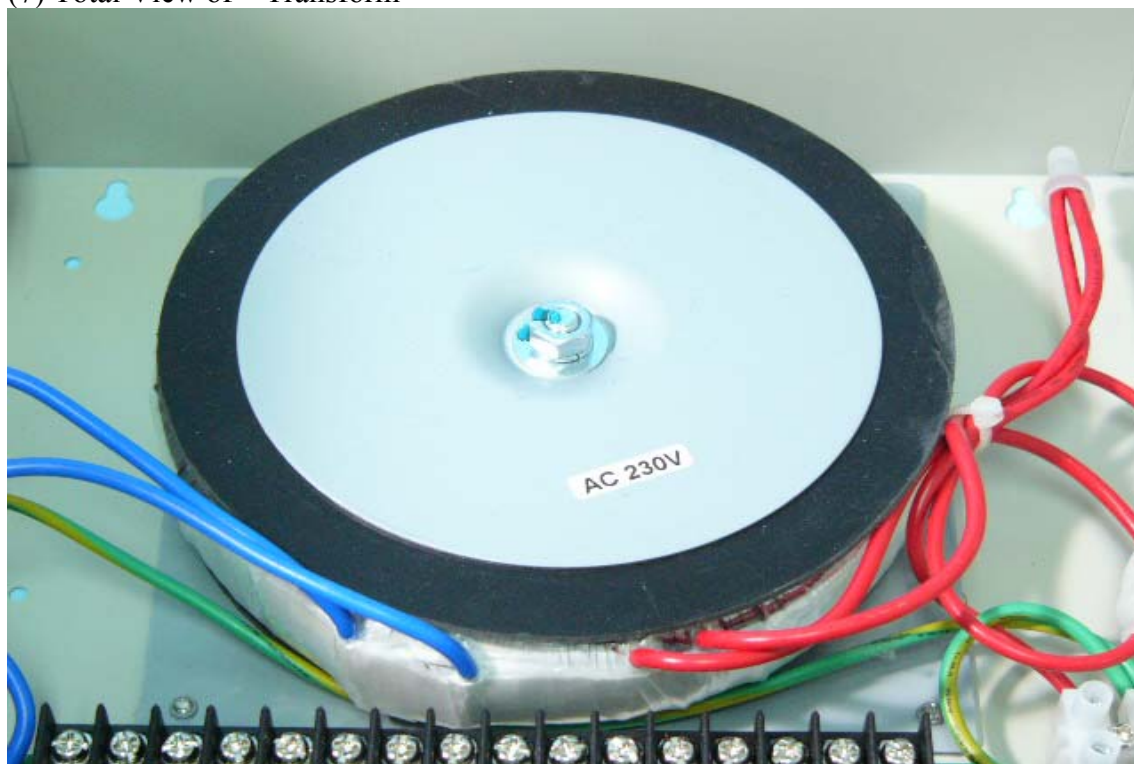


(6) Internal View of EUT

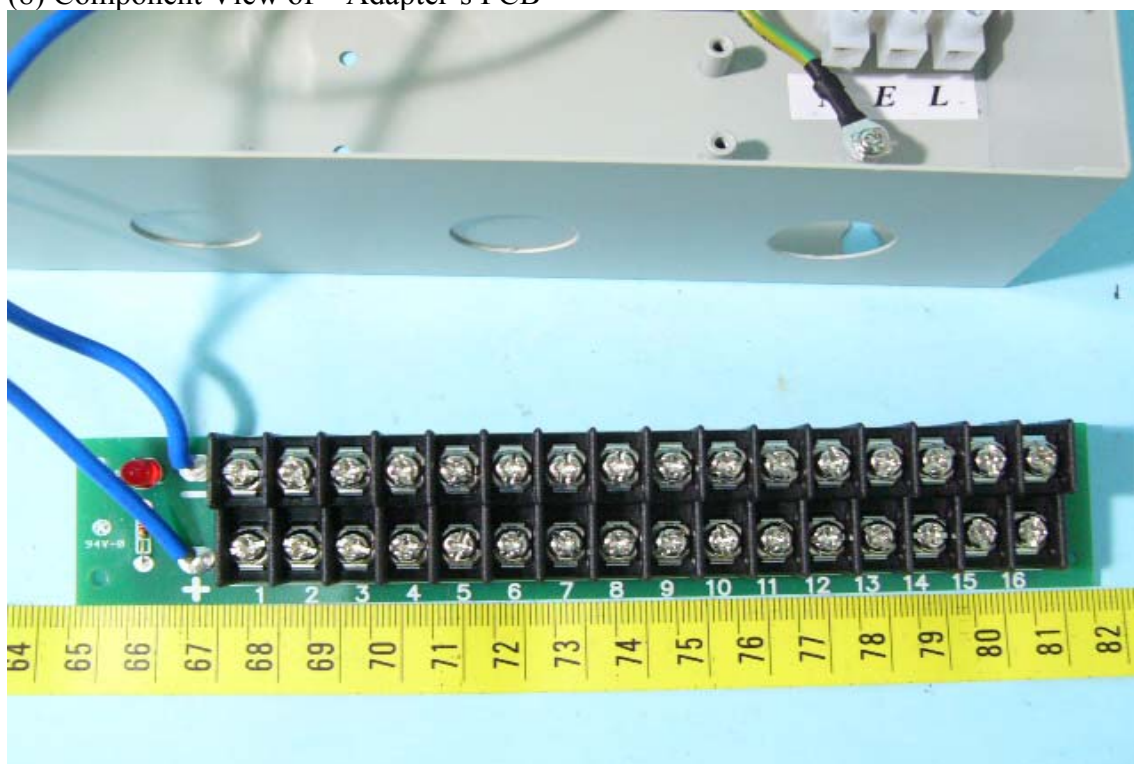


CONSTRUCTED PHOTOS of EUT

(7) Total View of Transform



(8) Component View of Adapter's PCB



CONSTRUCTED PHOTOS of EUT

(9) Solder View of Adapter's PCB

