



Ref. Certif. No.

SG-OF-08203A2/M2

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST
CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE)
CB SCHEME

SYSTEME CEI D'ACCEPTATION MUTUELLE DE
CERTIFICATS D'ESSAIS DES EQUIPEMENTS
ELECTRIQUES (IECEE) METHODE OC

CB TEST CERTIFICATE CERTIFICAT D'ESSAI OC

Product
Produit

Monitors
(LED Monitor)

Name and address of the applicant
Nom et adresse du demandeur

SAMSUNG TECHWIN CO., LTD.
84 Jeongdong-ro, Seongsan-gu
Changwon-si, Gyeongsangnam-do 641-716, REPUBLIC OF KOREA

Name and address of the manufacturer
Nom et adresse du fabricant

TIANJIN SAMSUNG TECHWIN OPTO-ELECTRONIC CO., LTD., 11
WEILIU RD, MICRO-ELECTRONIC INDUSTRIAL PARK, TEDA, 300385
TIANJIN, PEOPLE'S REPUBLIC OF CHINA

Name and address of the factory
Nom et adresse de l'usine

Weihai Daewoo Electronics Co., Ltd., No. 26, Hongkong Road, Economic
& Technical Development Zone, 264205 Weihai City, Shandong Province,
PEOPLE'S REPUBLIC OF CHINA

Ratings and principal characteristics
Valeurs nominales et caractéristiques principales

Rated voltage: 100-240 V a.c.
Rated frequency: 50/60 Hz
Rated current: 0.6 A
Protection class: I

Trade mark (if any)
Marque de fabrique (si elle existe)

SAMSUNG

Model/type Ref.
Ref. de type

SMT-2232, SMT-2232V, SMT-2233

Additional information (if necessary)
Information complémentaire (si nécessaire)

Certificate SG-OF-08203A1/M2 issued 2015-01-12 is replaced by this
version due to non-technical changes. See Test Report for National and
Group Differences.

A sample of the product was tested and found
to be in conformity with
Un échantillon de ce produit a été essayé et a été
considéré conforme à la

IEC 60950-1(ed.2);am1

as shown in the Test Report Ref. No.
which forms part of this certificate
comme indiqué dans le Rapport d'essais numéro
de référence qui constitue une partie de ce
certificat

TÜV SÜD PSB Pte Ltd
077-234902-202

This CB Test Certificate is issued by the National Certification Body
Ce Certificat d'essai OC est établi par l'Organisme **National de Certification**

Date, 2015-09-09
CBS 15 09 40676 117


(Havard Lee)



TÜV SÜD PSB Pte Ltd · 1 Science Park Drive · Singapore 118221

PSB Singapore



Test Report issued under the responsibility of:

NCB TÜV SÜD PSB Pte Ltd.
1 Science Park Drive, 118221 Singapore



TEST REPORT
IEC 60950-1
Information technology equipment – Safety –
Part 1: General requirements

Report Number: 077-234902-202

Date of issue.....: 2015-09-09

Total number of pages 8 pages

Testing Laboratory.....: TÜV SÜD Korea Laboratory (TKL)

Address: #315 and 316, MARIO Tower, 222-12, Guro-Dong, Guro-Gu,
Seoul 152-050, Republic of Korea

Applicant's name.....: SAMSUNG TECHWIN CO., LTD. (40676)

Address: 42, Sungju-dong, Changwon-si, Gyeongsangnam-do, 641-716,
Republic of Korea

Manufacturer's name.....: TIANJIN SAMSUNG TECHWIN OPTO-ELECTRONIC CO., LTD.
(70297)

Address: 11 WEILIU RD, MICRO-ELECTRONIC INDUSTRIAL PARK,
TEDA, TIANJIN 300385, People's Republic of China

Test specification:

Standard: IEC 60950-1:2005 (Second Edition) + Am 1:2009

Test procedure: CB Scheme

Non-standard test method.....: N/A

Test Report Form No.....: IEC60950_1C

Test Report Form(s) Originator: SGS Fimko Ltd

Master TRF.....: Dated 2012-08

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If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.

This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.



Test item description	LED Monitor	
Trade Mark		
Manufacturer	TIANJIN SAMSUNG TECHWIN OPTO-ELECTRONIC CO., LTD. (70297) 11 WEILIU RD, MICRO-ELECTRONIC INDUSTRIAL PARK, TEDA, TIANJIN 300385, People's Republic of China	
Model/Type reference.....	SMT-2232, SMT-2232V, SMT-2233	
Ratings	AC 100-240 V~, 50/60 Hz, 0.6 A	
Testing procedure and testing location:		
☒ CB Testing Laboratory:	TÜV SÜD Korea Laboratory (TKL)	
Testing location/ address	#315 and 316, MARIO Tower, 222-12, Guro-Dong, Guro-Gu, Seoul 152-050, Republic of Korea	
☐ Associated Laboratory:	N/A	
Testing location/ address	N/A	
Tested by (name + signature)	Danny Shin	
Approved by (name + signature)	Martin Kim	
☐ Testing procedure: TMP		
Testing location/ address	N/A	
Tested by (name + signature)	N/A	.....
Approved by (name + signature)	N/A	.....
☐ Testing procedure: WMT		
Testing location/ address	N/A	
Tested by (name + signature)	N/A	.....
Witnessed by (name + signature)	N/A	.....
Approved by (name + signature)	N/A	.....
☐ Testing procedure: SMT		
Testing location/ address	N/A	
Tested by (name + signature)	N/A	.....
Approved by (name + signature)	N/A	.....
Supervised by (name + signature)	N/A	.....
☐ Testing procedure: RMT		
Testing location/ address	N/A	
Tested by (name + signature)	N/A	.....
Approved by (name + signature)	N/A	.....
Supervised by (name + signature)	N/A	.....

List of Attachments (including a total number of pages in each attachment): N/A	
Summary of testing:	
Tests performed (name of test and test clause): N/A	Testing location: TÜV SÜD Korea Laboratory (TKL) #315 and 316, MARIO Tower, 222-12, Guro-Dong, Guro-Gu, Seoul 152-050, Republic of Korea
Summary of compliance with National Differences List of countries addressed: Australia, Canada, China, Japan, Korea, United Kingdom, USA and European group differences and national differences. ☒ The product fulfils the requirements of the standard IEC 60950-1:2005+A1:2009 and EN 60950-1:2006+A11:2009+A1:2010+A12:2011.	
Copy of marking plate The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks. (Additional requirements for markings. See 1.7 NOTE)	

N1732

Model : SMT-2232 Model Code : SMT-2232V/EO	Color Display Unit AC100-240V~ 50/60Hz 0.6A
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Apparatet må kun tilkoples jordet stikkontakt.
 Apparaten skall anslutas till jordat uttag när den ansluts till ett nätverk.
 Laite on liitettävä suojamaadoituskoskettimillä varustettuun.

10/2012
S/N: C96167VCA00001T
 SAMSUNG TECHWIN CO.,LTD. MADE BY SAMSUNG IN CHINA

型号 Model: SMT-2232
Model Code: SMT-2232V/CH

LED液晶监视器	适用电压范围 交流 AC 100-240V~ 50/60Hz 0.6A
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小心: 为减少电击的危险, 请不要打开机壳 (或后盖), 只有专业人员才能维修。

生产者: 天津三星泰科光电子有限公司
 序列号: **C95Z67VCA00001T** 生产日期: 10/2012

Model : SMT-2232
Model Code : SMT-2232V/EX
AC100-240V~ 50/60Hz 0.6A

Apparatet må kun tilkoples jordet stikkontakt.
 Apparaten skall anslutas till jordat uttag när den ansluts till ett nätverk.
 Laite on liitettävä suojamaadoituskoskettimillä varustettuun.

S/N: C95W67VCA00001T
 SAMSUNG TECHWIN CO.,LTD. MADE BY SAMSUNG IN CHINA

品名: LCD モニター
型 名: SMT-2232
MODEL CODE: SMT-2232V/JP

定 格 電 圧: AC100-240V~ 50/60Hz 定 格 電 流: 0.6A 定格消費電力: 30.5W

製造番号: **C96167VCA00001T** MANUFACTURED :Oct 2012

SAMSUNG TECHWIN CO.,LTD. MADE BY SAMSUNG IN CHINA

SAMSUNG 제 품 명 : SMT-2232 모델코드 : SMT-2232V/DO 기기의명칭(모델명) : LED 모니터 인 증 번 호 : KCC-RE-STW-SMT2232W 인증 받은자의 상호 : 삼성테크윈(주) 제 조 년 월 : 2012.10 제조사 / 제조국가 : Weihai Daewoo Electronics Co., Ltd./중국 정 격 : AC100-240V~, 50/60Hz 0.55A 관 매 원 : 삼성테크윈(주) 서비스 센터 대표전화 (전국 어디서나)1588-5772 S/N: C99X67VCA00001T ZU10059-11001 제품명칭: 모니터	SAMSUNG Model : SMT-2232 Model Code : SMT-2232V/US Color Display Unit AC100-240V~ 50/60Hz 0.6A Canada ICES-003 Class A / Canada NMB-003 Classe A TUV SUD C NRTL US This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. FACTORY ID: DAEWOO SAMSUNG TECHWIN CO., LTD. MADE BY SAMSUNG IN CHINA MANUFACTURED : Oct 2012 S/N: C95Y67VCA00001T
SAMSUNG 제 품 명 : SMT-2232V 모델코드 : SMT-2232V/DO 기기의명칭(모델명) : LED 모니터 인 증 번 호 : KCC-RE-STW-SMT2232W 인증 받은자의 상호 : 삼성테크윈(주) 제 조 년 월 : 2012.10 제조사 / 제조국가 : Weihai Daewoo Electronics Co., Ltd./중국 정 격 : AC100-240V~, 50/60Hz 0.55A 관 매 원 : 삼성테크윈(주) 서비스 센터 대표전화 (전국 어디서나)1588-5772 S/N: C99X67VCA00001T ZU10059-11001 제품명칭: 모니터	SAMSUNG 品名: LCD モニター 型 名: SMT-2232V MODEL CODE: SMT-2232V/JP 定 格 電 圧: AC100-240V~ 50/60Hz 定 格 電 流: 0.6A 定 格 消 費 電 力: 30.5W 製造番号: C96167VCA00001T MANUFACTURED: Oct 2012 SAMSUNG TECHWIN CO.,LTD. MADE BY SAMSUNG IN CHINA
SAMSUNG Model: SMT-2232V Model Code: SMT-2232V/EX AC100-240V~ 50/60Hz 0.6A PC T CE AO77 Apparatet må kun tilkoples jordat stikkontakt. Apparaten skall anslutas till jordat uttag, när den ansluts till ett nätverk. Laitte on liitettävä suojamaadoituskoskettimillä varustettuun. S/N: C95W67VCA00001T SAMSUNG TECHWIN CO.,LTD. MADE BY SAMSUNG IN CHINA	SAMSUNG 型号 Model: SMT-2232V Model Code: SMT-2232V/CH LED液晶监视器 适用电压范围 交流 AC 100-240V~ 50/60Hz 0.6A 小心: 为减少电击的危险, 请不要打开机壳 (或后盖), 只有专业人员才能维修。 生产者: 天津三星泰科光电子有限公司 序列号: C95Z67VCA00001T 生产日期: 10/2012
SAMSUNG Model: SMT-2232V Model Code: SMT-2232V/EO Color Display Unit AC100-240V~ 50/60Hz 0.6A Apparatet må kun tilkoples jordat stikkontakt. Apparaten skall anslutas till jordat uttag, när den ansluts till ett nätverk. Laitte on liitettävä suojamaadoituskoskettimillä varustettuun. 10/2012 S/N: C96167VCA00001T SAMSUNG TECHWIN CO.,LTD. MADE BY SAMSUNG IN CHINA	SAMSUNG Model: SMT-2232V Model Code: SMT-2232V/US Color Display Unit AC100-240V~ 50/60Hz 0.6A Canada ICES-003 Class A / Canada NMB-003 Classe A TUV SUD C NRTL US This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. FACTORY ID: DAEWOO SAMSUNG TECHWIN CO., LTD. MADE BY SAMSUNG IN CHINA MANUFACTURED : Oct 2012 S/N: C95Y67VCA00001T
SAMSUNG Model: SMT-2233 Model Code: SMT-2233/EX AC100-240V~ 50/60Hz 0.6A PC T CE AO77 Apparatet må kun tilkoples jordat stikkontakt. Apparaten skall anslutas till jordat uttag, när den ansluts till ett nätverk. Laitte on liitettävä suojamaadoituskoskettimillä varustettuun. S/N: C95W67VCA00001T SAMSUNG TECHWIN CO.,LTD. MADE BY SAMSUNG IN CHINA	

Test item particulars	
Equipment mobility.....	☒ movable ☐ hand-held ☐ transportable ☐ stationary ☐ for building-in ☐ direct plug-in
Connection to the mains	☒ pluggable equipment ☒ type A ☐ type B ☐ permanent connection ☒ detachable power supply cord ☐ non-detachable power supply cord ☐ not directly connected to the mains
Operating condition.....	☒ continuous ☐ rated operating / resting time:
Access location	☒ operator accessible ☐ restricted access location
Over voltage category (OVC)	☐ OVC I ☒ OVC II ☐ OVC III ☐ OVC IV ☐ other:
Mains supply tolerance (%) or absolute mains supply values	-10 %, +10 %
Tested for IT power systems	☐ Yes ☒ No
IT testing, phase-phase voltage (V)	N/A
Class of equipment	☒ Class I ☐ Class II ☐ Class III ☐ Not classified
Considered current rating of protective device as part of the building installation (A)	16 A Canada and the United States: 20 A United Kingdom: 13 A
Pollution degree (PD)	☐ PD 1 ☒ PD 2 ☐ PD 3
IP protection class	IPX0
Altitude during operation (m)	Up to 2000 m
Altitude of test laboratory (m)	70 m
Mass of equipment (kg)	5.1 kg
Possible test case verdicts:	
- test case does not apply to the test object : N/A (or N)	
- test object does meet the requirement..... : P (Pass)	
- test object does not meet the requirement..... : F (Fail)	
Testing::	
Date of receipt of test item : N/A	
Date(s) of performance of tests : N/A	

General remarks:

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

"(see Enclosure #)" refers to additional information appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a ☐ comma / ☒ point is used as the decimal separator.

Remark 1 – This amendment report is to supplement the earlier Ref. Certif. No. SG-OF-08203, SG-OF-08203A1, SG-OF-08203A1/M1 and SG-OF-08203A1/M2.
(Test Report No.: 077-234902-000, 077-234902-001, 077-234902-101 and 077-234902-201)

Remark 2 – Amendments

- Addition of model name for SMT-2233.
- Addition of marking plate which related to additional model name.

Manufacturer's Declaration per sub-clause 6.2.5 of IEC 60950-1:

The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided.....:

- ☐ Yes
☒ Not applicable

When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies) : Weihai Daewoo Electronics Co., Ltd. (30997)
No. 26, Hongkong Road, Economic & Technical Development Zone, Weihai City, Shandong Province 264205, People's Republic of China

General product information:

1. Model SMT-2232 is basic model, which was tested and it was the representative of the other model.
2. Model SMT-2232V and SMT-2233 are identical to basic model, except for model designation.
3. The maximum ambient temperature permitted by the manufacturer (Tma): 40 °C

Abbreviations used in the report:

- normal conditions	N.C.	- single fault conditions	S.F.C
- functional insulation	OP	- basic insulation	BI
- double insulation	DI	- supplementary insulation SI	
- between parts of opposite polarity	BOP	- reinforced insulation	RI

Indicate used abbreviations (if any)

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
1	GENERAL		P
1.7	Marking and instructions		P
1.7.1	Power rating and identification markings		P
1.7.1.1	Power rating marking		P
	Multiple mains supply connections.....:	No multiple mains	N/A
	Rated voltage(s) or voltage range(s) (V)	AC 100-240 V~	P
	Symbol for nature of supply, for d.c. only..... :	The equipment is for a.c. supply.	N/A
	Rated frequency or rated frequency range (Hz) ... :	50/60 Hz	P
	Rated current (mA or A)	0.6 A	P
1.7.1.2	Identification markings		P
	Manufacturer's name or trade-mark or identification mark		P
	Model identification or type reference	SMT-2232, SMT-2232V, SMT-2233	P
	Symbol for Class II equipment only	Class I equipment.	N/A
	Other markings and symbols	(see the copy of marking plate)	P

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

List of test equipment used:

(Note: This is an example of the required attachment. Other forms with a different layout but containing similar information are also acceptable.)

Clause	Measurement / testing	Testing / measuring equipment / material used	Range used	Calibration date	Calibration due date
Supplementary information:					
No listing of test equipment used necessary for chosen CBTL test procedure.					