



Ref. Certif. No.

JPTUV-053341-M1

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

SMART All-in-One

Name and address of the applicant  
Nom et adresse du demandeur

Top Victory Electronics (Taiwan) Co., Ltd.  
10F., No. 230, Liancheng Rd.  
Zhonghe Dist., New Taipei City, 23553 Taiwan

Name and address of the manufacturer  
Nom et adresse du fabricant

TPV Electronics (Fujian) Co., Ltd.  
Shangzheng, Yuan Hong Road  
Fuqing City, Fujian Province, P.R. China

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

See additional page(s)

Ratings and principal characteristics  
Valeurs nominales et caractéristiques principales

DC 19V; 3.42A; Class III

Trademark (if any)  
Marque de fabrique (si elle existe)

AOC

Type of Manufacturer's Testing Laboratories used  
Type de programme du laboratoire d'essais constructeur

N/A

Model / Type Ref.  
Ref. de type

A2272P\*\*\*\*\*, 215LM00047, A2472P\*\*\*\*\*, 236LM00019  
(\* can be 0-9, A-Z, a-z, +, hyphen, \, / or blank)

Additional information (if necessary may also be reported on page 2)  
Les informations complémentaires (si nécessaire, peuvent être indiqués sur la 2<sup>ème</sup> page)

For model differences, refer to the test report.  
Re-issue of JPTUV-053341 dated 26.09.2013,  
due to first modification.

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 60950-1:2005+A1  
National differences see test report

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 partie de ce Certificat

11034170 002

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



TÜVRheinland®

TÜV Rheinland Japan Ltd.  
Global Technology Assessment Center  
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Phone + 81 45 914-3888  
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Mail: info@jpn.tuv.com  
Web: www.tuv.com

Dipl.-Ing. P. Stoelzel

Date:

09.10.2013

Signature:


1. TPV Technology (Beijing) Co., Ltd.  
No. 10, Jiu Xian Qiao Rd.  
Chao Yang District, Beijing 100016  
P.R. China
2. Tatung Mexico S.A. de C.V.  
Ave. Rosa Ma. Fuentes #7050  
Complejo Industrial Fuentes  
C.P. 32320, Cd. Juarez. Chih,  
MEXICO
3. TPV Display Technology (Wuhan)  
Co., Ltd.  
Unique No. 11, Zhuankou Development  
District of Economic Technological  
Development Zone, Wuhan City 430056, P.R. China
4. TPV Electronics (Fujian) Co., Ltd.  
Shangzheng, Yuan Hong Road  
Fuqing City, Fujian Province  
P.R. China
5. Envision Industry of Electronic  
Products Ltd.  
895, Joao Marcos Pozzetti Street,  
Industrial District II,  
69.075-215 Manaus, Am, Brazil
6. Envision Industry of Electronic  
Products Ltd.  
Rodovia Anhanguera S/N-KM 49  
13.205-700 Tijuco Preto-Jundiaí-SP-  
Brazil
7. TPV Displays Polska Sp. z o.o.  
ul. Zlotego Smoka 9  
66-400 Gorzów Wlkp.  
Poland
8. L&T Display Technology (Fujian) Ltd.  
Optoelectronic Park, Rongqiao  
Economic and Technological  
Development Zone  
Fuqing, Fujian 350301, P.R. China
9. TPV Display Technology (Beihai)  
Co., Ltd.  
China Electronic Beihai Industry  
Park, Northeast of the Crossing  
Between Taiwan Road and Jilin Road, Beihai City, Guangxi, P.R. China

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

Report Ref. No.: 11034170 002

Date: 09.10.2013

Signature:

  
Dipl.-Ing. F. Stoerzel



10. Envision Industry of Electronic  
Products Ltd.  
Av Torquato Tapajós 7503,  
Galpão : II Bloco: B-Condomínio  
de Galpões-Tarumã-Manaus, AM, Brazil

11. TPV Technology (Qingdao)  
Co., Ltd.  
No.99 Huoju Road, High-tech Industrial  
Development Zone  
Qingdao City, Shandong Province, P.R. China

12. TPV Display Technology (China)  
Co., Ltd.  
No. 106 Jinghai 3 Rd., BDA  
Beijing City 100176  
P.R. China

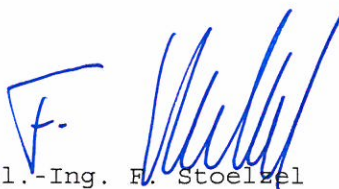
**Additional information (if necessary)**  
**Information complémentaire (si nécessaire)**

Report Ref. No.: 11034170 002

Date:

09.10.2013

Signature:

  
Dipl.-Ing. F. Stoelzel



Test Report issued under the responsibility of:



<b>TEST REPORT</b> <b>IEC 60950-1</b> <b>Information technology equipment – Safety –</b> <b>Part 1: General requirements</b>	
<b>Report Number</b> .....	11034170 002
<b>Date of issue</b> .....	Oct. 08, 2013
<b>Total number of pages</b> .....	14
<b>CB Testing Laboratory</b> .....	TÜV Rheinland Taiwan Ltd., Taichung Laboratory
<b>Address</b> .....	No. 9, Ln. 36, Sec. 3, Minsheng Rd., Daya District, Taichung City 428, Taiwan.
<b>Applicant's name</b> .....	Top Victory Electronics (Taiwan) Co., Ltd.
<b>Address</b> .....	10F., No. 230, Liancheng Rd., Zhonghe Dist., New Taipei City, 23553 Taiwan
<b>Manufacturer's name</b> .....	TPV Electronics (Fujian) Co., Ltd.
<b>Address</b> .....	Shang-Zheng Yuan Hong Rd., Fuqing City Fujian Province 350301, P.R. China
<b>Test specification:</b>	
<b>Standard</b> .....	IEC 60950-1:2005 (Second Edition) + Am 1:2009
<b>Test procedure</b> .....	CB Scheme
<b>Non-standard test method</b> .....	N/A
<b>Test Report Form No</b> .....	IEC60950_1C
<b>Test Report Form(s) Originator</b> .....	SGS Fimko Ltd
<b>Master TRF</b> .....	Dated 2012-08
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<b>Test item description</b> .....	SMART All-in-One
<b>Trade Mark</b> .....	AOC
<b>Manufacturer</b> .....	Same as above.
<b>Model/Type reference</b> .....	<b>A2272P*****, 215LM00047, A2472P*****, 236LM00019 (* can be 0-9, A-Z, a-z, +, -, \, / or blank)</b>
<b>Ratings</b> .....	19 Vdc, 3.42 A

<b>Testing procedure and testing location:</b>	
<input checked="" type="checkbox"/> <b>CB Testing Laboratory:</b>	Refer to cover page.
Testing location/ address .....	Refer to cover page.
<input type="checkbox"/> <b>Associated CB Laboratory:</b>	
Testing location/ address .....	
Tested by (name + signature).....:	<i>P. Kelly</i>
Approved by (name + signature) .....	<i>Steven</i>
<input type="checkbox"/> <b>Testing procedure: TMP</b>	
Testing location/ address .....	
Tested by (name + signature).....:	
Approved by (name + signature) .....	
<input type="checkbox"/> <b>Testing procedure: WMT</b>	
Testing location/ address .....	
Tested by (name + signature).....:	
Witnessed by (name + signature).....:	
Approved by (name + signature) .....	
<input type="checkbox"/> <b>Testing procedure: SMT</b>	
Testing location/ address .....	
Tested by (name + signature).....:	
Approved by (name + signature) .....	
Supervised by (name + signature).....:	
<input type="checkbox"/> <b>Testing procedure: RMT</b>	
Testing location/ address .....	
Tested by (name + signature).....:	
Approved by (name + signature) .....	
Supervised by (name + signature).....:	

**List of Attachments (including a total number of pages in each attachment):**

- Photo documentation

Total number of pages in each attachment is indicated in each individual attachment.

**Summary of testing:****Tests performed (name of test and test clause):**

All applicable tests as described in Test Case and Measurement Sections were performed.

- The load condition used as below during testing:  
For D-SUB mode:  
The equipment operated under maximum brightness, maximum contrast of LED backlight circuit, volume adjustment to maximum attainable power with 1 kHz signal and loaded 2.5 W for each USB port (total two provided), HDMI port (MHL function) provided 0.9 A dummy load as well.  
For HDMI mode:  
The equipment operated under maximum brightness, maximum contrast of LED backlight circuit, volume adjustment to maximum attainable power with 1 kHz signal and loaded 2.5 W for each USB port (total two provided).  
For ANDROID mode:
- The equipment operated under maximum brightness, maximum contrast of LED backlight circuit, volume adjustment to maximum attainable power with 1 kHz signal, loaded 2.5 W for each USB port (total two provided), HDMI port (MHL function) provided 0.9 A dummy load and SD card port provide 0.5 A dummy load, continuously connected Network function as well.
- The testing samples were pre-production without serial numbers.
- CPU information: Quad Core, nVidia Tegra T33@1.6GHz during the test.
- The all ventilation openings were blocked during the test, consider as normal condition used.
- All tests were performed on model A2472P\*\*\*\*\* if no other indicate.

**Testing location:**

All tests as described in Test Case and Measurement Sections were performed at the laboratory described on page 2.

**Summary of compliance with National Differences**

List of countries addressed:

EU Group Differences, EU Special National Conditions, CA, DE, FI, IL, KR, US.

Explanation of used codes: CA = Canada, DE = Germany, FI = Finland, IL = Israel, KR = Republic of Korea, US = United States of America.

The product fulfils the requirements of EN 60950-1:2006/A11:2009/A1:2010/A12:2011

For IEC 60950-1:2005 / EN 60950-1:2006+A11:2009 (per client request):

AU

Explanation of used codes: AU=Australia

For IEC 60950-1:2001 / EN 60950-1:2001+A11:2004 (per client request):

(All CB members countries listed in CB Bulletin No. 112A, dated December 2006)

AR, AT, BE, CN, CZ, FR, GR, HU, IN, IT, JP, KE, MY, NL, PL, SG, SI, SK.

Explanation of used codes: AR=Argentina, AT=Austria, BE=Belgium, CN=China, CZ=Czech Republic, FR=France, GR=Greece, HU=Hungary, IN=India, IT=Italy, JP=Japan, KE=Kenya, MY=Malaysia, NL=The Netherlands, PL=Poland, SG=Singapore, SI=Slovenia, SK=Slovakia.

For IEC 60950:1999 (3<sup>rd</sup> Edition) + Corr. Jan. 2000 (per client request):

BR, IE, PT, RU, TR, UA, ZA.

Explanation of used codes: BR=Brazil, IE=Ireland, PT=Portugal, RU=Russian Federation, TR=Turkey, UA=Ukraine, ZA=South Africa.



**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)


**AOC** SMART All-in-One/智能一體機


Product Name>Nama Produk/機種名: **A2272PW4T**  
 Model NO./型號: **215LM00047**

Power Rating /Tegangan / 額定電源: 19V ==3.42A

武漢艾德蒙科技股份有限公司  
 湖北省武漢市蔡甸區蔡甸經濟開發區特8號  
 WUHAN ADMIRAL TECHNOLOGY CO., LTD.  
 Special 8, Caidian Economic Development Zone, Caidian District, Wuhan, Hubei  
 AOC International Europe B.V. Amstelgebouw,  
 6th floor Prins Bernhardplein 200 1097 JB Amsterdam The Netherlands  
 Peringatan: Bahaya Kejut Listrik, Jangan Dibuka  
 For applicable power supplies see user manual  
 Warning: Shock Hazard, Do Not Open.  
 高壓注意: 非專業維修人員請勿打開後蓋。

www.aoc.com  
 Made in China / Dibuat di : China/中國製造  
 Q40G022N-615-A35



  
 P/N:XXXXXXXXXXXXXXXXXX


**AOC** SMART All-in-One/智能一體機


Product Name>Nama Produk/機種名: **A2472PW4T**  
 Model NO./型號: **236LM00019**

Power Rating /Tegangan / 額定電源: 19V ==3.42A

武漢艾德蒙科技股份有限公司  
 湖北省武漢市蔡甸區蔡甸經濟開發區特8號  
 WUHAN ADMIRAL TECHNOLOGY CO., LTD.  
 Special 8, Caidian Economic Development Zone, Caidian District, Wuhan, Hubei  
 AOC International Europe B.V. Amstelgebouw,  
 6th floor Prins Bernhardplein 200 1097 JB Amsterdam The Netherlands  
 Peringatan: Bahaya Kejut Listrik, Jangan Dibuka  
 For applicable power supplies see user manual  
 Warning: Shock Hazard, Do Not Open.  
 高壓注意: 非專業維修人員請勿打開後蓋。

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 Q40G022N-615-A35



  
 P/N:XXXXXXXXXXXXXXXXXX



<b>Test item particulars</b> .....:	
Equipment mobility.....:	<input checked="" type="checkbox"/> movable <input type="checkbox"/> hand-held <input type="checkbox"/> transportable <input type="checkbox"/> stationary <input type="checkbox"/> for building-in <input type="checkbox"/> direct plug-in
Connection to the mains .....	<input type="checkbox"/> pluggable equipment <input type="checkbox"/> type A <input type="checkbox"/> type B <input type="checkbox"/> permanent connection <input type="checkbox"/> detachable power supply cord <input type="checkbox"/> non-detachable power supply cord <input checked="" type="checkbox"/> not directly connected to the mains
Operating condition.....:	<input checked="" type="checkbox"/> continuous <input type="checkbox"/> rated operating / resting time:
Access location .....	<input checked="" type="checkbox"/> operator accessible <input type="checkbox"/> restricted access location
Over voltage category (OVC) .....	<input type="checkbox"/> OVC I <input checked="" type="checkbox"/> OVC II <input type="checkbox"/> OVC III <input type="checkbox"/> OVC IV <input type="checkbox"/> other:
Mains supply tolerance (%) or absolute mains supply values .....	N/A
Tested for IT power systems .....	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
IT testing, phase-phase voltage (V) .....	N/A
Class of equipment .....	<input type="checkbox"/> Class I <input type="checkbox"/> Class II <input checked="" type="checkbox"/> Class III <input type="checkbox"/> Not classified
Considered current rating of protective device as part of the building installation (A) .....	N/A
Pollution degree (PD) .....	<input type="checkbox"/> PD 1 <input checked="" type="checkbox"/> PD 2 <input type="checkbox"/> PD 3
IP protection class .....	IPX0
Altitude during operation (m) .....	Up to 5000
Altitude of test laboratory (m) .....	Less than 2000
Mass of equipment (kg) .....	Approx. 5.03 (for unit with base stand) ; approx 0.35 (for base stand) for models A2272P***** and 215LM00047. Approx. 6.03 (for unit with base stand) ; approx 0.38 (for base stand) for models A2472P***** and 236LM00019.
<b>Possible test case verdicts:</b>	
- 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)
<b>Testing</b> .....:	
Date of receipt of test item .....	September, 2013
Date(s) of performance of tests .....	September to October, 2013
<b>General remarks:</b>	

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.

#### Manufacturer's Declaration per sub-clause 6.2.5 of IEC60950-1:

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) .....** : Refer to report no. 11034170 001.

#### General product information:

##### Additional Information:

The Audio out jack for decoding board has also been tested and found in compliance with the requirements of EN 50332-2. Measured maximum output power of the speaker jack: Right side: 61.1 mV; Left side: 61.9 mV.

##### Description of change(s):

1. Add new models as 215LM00047, 236LM00019 and A2472P\*\*\*\*\* (trademark of AOC).
2. Revise previously model from A2272PW4T to A2272P\*\*\*\*\*.

For the above described change(s) the following was considered to be necessary:

Change	Testing	Comments
1. and 2.	<ul style="list-style-type: none"> <li>• Input Test</li> <li>• SELV Reliable Test</li> <li>• Limited Current Test</li> <li>• Wall Mount Test</li> <li>• Heating Test</li> </ul>	<p>Model 215LM00047 is identical to model A2272P***** except for model designation.</p> <p>Model 236LM00019 is identical to model A2472P***** except for model designation.</p> <p>Model A2472P***** is similar to model A2272P***** except for model designation, LCD panel and enclosure size, the details see photos as illustration and sources see table 1.5.1.</p> <p>The new model information see cover page with marked in bold type and copy of marking plate and sub-clause 1.7.1 as well.</p> <p>The test results see following appended tables and sub-clause for details.</p>

##### Definition of variable(s):

Variable:	Range of variable:	Content:
*	See cover page	For marketing purpose, no technical difference.

History of amendments and modifications:

Ref. No. 11034170 001, dated Sep. 25, 2013 (original test report)

Ref. No. 11034170 002, dated Oct. 08, 2013 (modification)

**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)

<b>IEC 60950-1</b>			
Clause	Requirement + Test	Result - Remark	Verdict
1.7.1	Power rating and identification markings	See below	P
1.7.1.1	Power rating marking		N/A
	Multiple mains supply connections.....:		N/A
	Rated voltage(s) or voltage range(s) (V) .....	See copy of marking plate. (Not connect mains directly)	N/A
	Symbol for nature of supply, for d.c. only.....:	See copy of marking plate. (Not connect mains directly)	N/A
	Rated frequency or rated frequency range (Hz) ....:	Class III equipment.	N/A
	Rated current (mA or A) .....	See copy of marking plate. (Not connect mains directly)	N/A
1.7.1.2	Identification markings		P
	Manufacturer's name or trade-mark or identification mark .....	See copy of marking plate.	P
	Model identification or type reference .....	See copy of marking plate.	P
	Symbol for Class II equipment only .....	Class III equipment.	N/A
	Other markings and symbols .....	Other markings and symbols do not give rise to misunderstanding.	P
<b>2.4</b>	<b>Limited current circuits</b>		<b>P</b>
2.4.1	General requirements	It is measured for the LED driver circuit. The limits of 2.4.2 were not exceeded under normal operating conditions and single fault conditions.	P
2.4.2	Limit values	See appended table 2.4.2	P
	Frequency (Hz).....:	See appended table 2.4.2	—
	Measured current (mA).....:	See appended table 2.4.2	—
	Measured voltage (V).....:	See appended table 2.4.2	—
	Measured circuit capacitance (nF or $\mu$ F) .....	Less than 45 $\mu$ C.	—
2.4.3	Connection of limited current circuits to other circuits	Complied.	P
<b>4</b>	<b>PHYSICAL REQUIREMENTS</b>		<b>P</b>
4.1	Stability		P
	Angle of 10°	The equipment does not overbalance when tilted to 10 degrees per client request.	P



IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
4.2.10	Wall or ceiling mounted equipment; force (N) ..... :	An additional force of 18.09 kg (3 times the mass of the unit and the mass is 6.03 kg with base) was applied to the unit with the VESA adaptor kit per client request.  The unit withstood the load test without damages or breaks from the VESA adaptor kit.	P
4.3.13.5.2	Light emitting diodes (LEDs)	For LED backlight, the luminance is far less than 10000 cd/m <sup>2</sup> . With reference to subclause 4.1 of IEC 62471:2006 no further test is necessary.	P

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

1.5.1	TABLE: List of critical components					P
Object/part no.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity <sup>1</sup> .	
The following components for model A2472P***** used.						
LCD Panel	BEIJING BOE Display Technology	HR236WU1-310	23.6 inch TFT- LCD module with a LED Backlight Unit.	--	--	
Base stand	--	--	Steel material, approx. 0.38 kg	--	--	
Supplementary information:						
1) Provided evidence ensures the agreed level of compliance. See OD-CB2039.						

1.6.2	TABLE: Electrical data (in normal conditions)						P
U (Vdc)	I (A)	Irated (A)	P (W)	Fuse #	Ifuse (A)	Condition/status	
For HDMI mode							
19	1.58	3.42	30.02	--	--	1.	
For VGA mode							
19	1.82	3.42	34.58	--	--	1.	
For ANDROID mode							
19	2.04	3.42	38.76	--	--	1.	
Supplementary information:							
1. See summary of testing in the test report for the detail max. normal condition.							

2.2	TABLE: evaluation of voltage limiting components in SELV circuits			P
Component (measured between)	max. voltage (V) (normal operation)		Voltage Limiting Components	
	V peak	V d.c.		
Before D8501 to Rtn	58.0	--	--	
After D8501 to Rtn	--	54.0	D8501	
Fault test performed on voltage limiting components	Voltage measured (V) in SELV circuits (V peak or V d.c.)			
D8501 short	LCD panel shut down, the voltage did not exceed 42.4 Vpeak or 60 Vdc			
supplementary information:				

IEC 60950-1						
Clause	Requirement + Test				Result - Remark	Verdict
2.4.2	TABLE: Limited current circuit measurement					P
Location	Voltage (V)	Current (mA)	Freq. (kHz)	Limit (mA)	Comments	
Normal condition						
Before D8501 to Rtn	60.2	30.1	Exceed 100	70	--	
Single fault condition with L8501, D8501, Q8501 2-8, Q8501 1-2, Q8501 1-8 shorted						
Before D8501 to Rtn	0	0	--	--	Unit shut down, no hazards.	
Single fault condition with R8525, R8505 shorted						
Before D8501 to Rtn	62.0	31.0	Exceed 100	70	--	
Supplementary information:						

4.5	TABLE: Thermal requirements						P
	Supply voltage (V) .....					19 Vdc (ANDROID mode)	—
	Ambient $T_{min}$ (°C) .....					--	—
	Ambient $T_{max}$ (°C) .....					--	—
Maximum measured temperature T of part/at::						T (°C)	Allowed $T_{max}$ (°C)
DC jack body						52.6	--
PCB near U7001						59.3	105
PCB near C7035						59.1	85
PCB near U1						48.9	105
PCB near U6000						64.8	105
Plastic enclosure inside near U7001						48.8	--
Plastic enclosure outside near U7001						45.7	95
LCD panel surface						46.2	95
Ambient during test						23.9	--
Max. ambient						40.0	--
Supplementary information:							
1. The temperatures were measured under worst case normal mode defined in 1.2.2.1 and as described in							
	$t_1$ (°C)	$R_1$ ( $\Omega$ )	$t_2$ (°C)	$R_2$ ( $\Omega$ )	T (°C)	Allowed $T_{max}$ (°C)	Insulation class
--	--	--	--	--	--	--	--
Supplementary information:							

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

1.6.2 at voltages as described in above.			
2. Unit specified with maximum of 40 °C ambient temperature and all temperatures were calculated for a maximum ambient temperature of 40 °C.			
3. Thermocouple method used for measuring the temperatures.			



<b>IEC 60950-1/Am1</b>			
<b>Clause</b>	<b>Requirement + Test</b>	<b>Result - Remark</b>	<b>Verdict</b>

**List of test equipment used:**

<b>Clause</b>	<b>Measurement / testing</b>	<b>Testing / measuring equipment / material used</b>	<b>Range used</b>	<b>Calibration date</b>

No listing of test equipment used necessary for chosen test procedure.