



Ref. Certif. No.

SG-OF-08225A1

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST
CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE)
CB SCHEMESYSTEME CEI D'ACCEPTATION MUTUELLE DE
CERTIFICATS D'ESSAIS DES EQUIPEMENTS
ELECTRIQUES (IECEE) METHODE OC**CB TEST CERTIFICATE**
CERTIFICAT D'ESSAI OCProduct
ProduitVideo recorder
(Digital Video Recorder)Name and address of the applicant
Nom et adresse du demandeurSAMSUNG TECHWIN CO., LTD.
42, Sungju-dong, Changwon-si,
Gyeongsangnam-do 641-716, REPUBLIC OF KOREAName and address of the manufacturer
Nom et adresse du fabricantSAMSUNG TECHWIN CO., LTD., 42, Sungju-dong, Changwon-si.,
Gyeongsangnam-do 641-716, REPUBLIC OF KOREAName and address of the factory
Nom et adresse de l'usineSAMSUNG TECHWIN CO., LTD., 42, Sungju-dong, Changwon-si.,
Gyeongsangnam-do 641-716, REPUBLIC OF KOREA
For further information please see attachmentRatings and principal characteristics
Valeurs nominales et caractéristiques principalesRated voltage: 100-240 V a.c.
Rated frequency: 50/60 Hz
Rated current: 4-1.5 A
Protection class: ITrade mark (if any)
Marque de fabrique (si elle existe)

SAMSUNG

Model/type Ref.
Ref. de typeSRD-1673DN, SRD-1673DP,
SRD-1653DN, SRD-1653DP,
SRD-873DN, SRD-873DP, SRD-1673PAdditional information (if necessary)
Information complémentaire (si nécessaire)

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/A1:2009

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
certificatTÜV SÜD PSB Pte Ltd
077-235542-001This CB Test Certificate is issued by the National Certification Body
Ce Certificat d'essai OC est établi par l'Organisme **National de Certification**Date, 2012-10-24
CBS 12 10 40676 092

(Michael Yu)



PSB Singapore

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



Ref. Certif. No.

CB Certificate Ref. No. SG-OF-08225A1

Additional factory information

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

TIANJIN SAMSUNG TECHWIN OPTO-ELECTRONIC
CO., LTD.
11 WEILIU RD, MICRO-ELECTRONIC INDUSTRIAL
PARK, TEDA, TIANJIN, 300385, People's Republic
of China

Y. C. Yu



Date: 2012-10-24

Signature: (Michael Yu)

PSB Singapore



Test Report issued under the responsibility of:

NCB TÜV SÜD PSB
1 Science Park Drive, 118221 Singapore



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

Report Number : 077-235542-001

Date of issue..... : 2012-10-24

Total number of pages 12 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..... : SAMSUNG TECHWIN CO., LTD. (40676)

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

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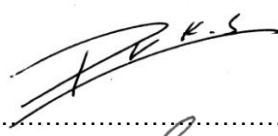
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This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

Test item description	Digital Video Recorder
Trade Mark	
Manufacturer	SAMSUNG TECHWIN CO., LTD. (40676) 42, Sungju-dong, Changwon-si, Gyeongsangnam-do 641-716, Republic of Korea
Model/Type reference.....	SRD-1673DN, SRD-1673DP, SRD-1653DN, SRD-1653DP, SRD-873DN, SRD-873DP, SRD-1673P
Ratings	AC 100-240 V~, 50/60 Hz, 4-1.5 A

Testing procedure and testing location:	
☒ 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)	Kevin Park 
Approved by (name + signature)	Charlie 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):

Attachment: 7 pages (National Differences)

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

All clauses

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**

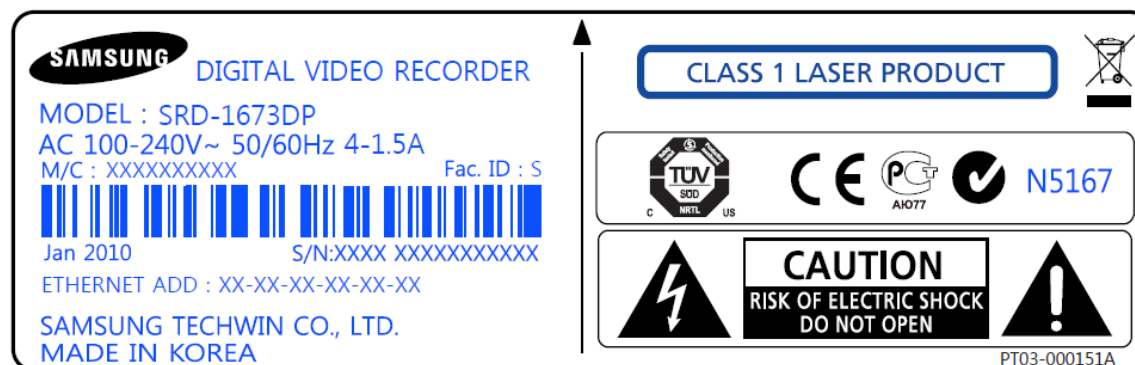
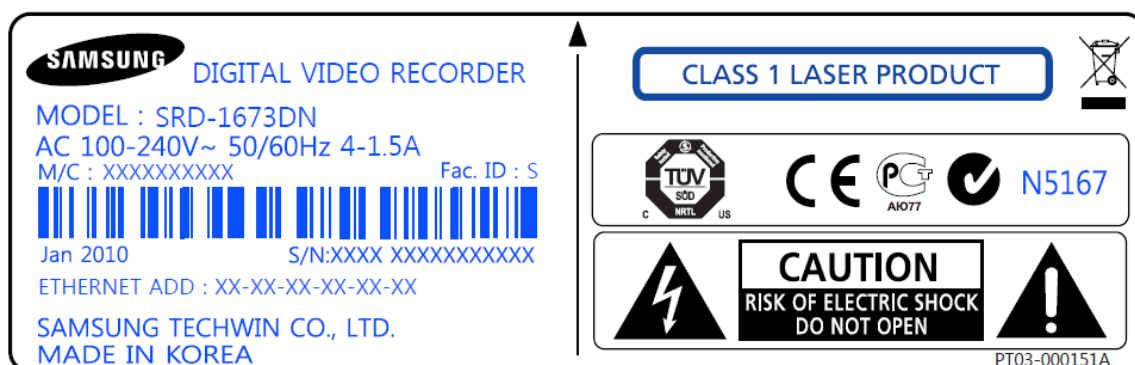
List of countries addressed: Canada, China, Korea, USA and European group differences and national differences.

- ☒ 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

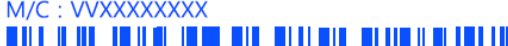
The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

(Additional requirements for markings. See 1.7 NOTE)



SAMSUNG DIGITAL VIDEO RECORDER MODEL : SRD-1653DN AC 100-240V~ 50/60Hz 4-1.5A M/C : XXXXXXXXXXXX Fac. ID : S  Jan 2010 S/N:XXXX XXXXXXXXXXXX ETHERNET ADD : XX-XX-XX-XX-XX-XX SAMSUNG TECHWIN CO., LTD. MADE IN KOREA	CLASS 1 LASER PRODUCT     N5167 CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN PT03-000151A
SAMSUNG DIGITAL VIDEO RECORDER MODEL : SRD-1653DP AC 100-240V~ 50/60Hz 4-1.5A M/C : XXXXXXXXXXXX Fac. ID : S  Jan 2010 S/N:XXXX XXXXXXXXXXXX ETHERNET ADD : XX-XX-XX-XX-XX-XX SAMSUNG TECHWIN CO., LTD. MADE IN KOREA	CLASS 1 LASER PRODUCT     N5167 CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN PT03-000151A
SAMSUNG DIGITAL VIDEO RECORDER MODEL : SRD-873DN AC 100-240V~ 50/60Hz 4-1.5A M/C : XXXXXXXXXXXX Fac. ID : S  Jan 2010 S/N:XXXX XXXXXXXXXXXX ETHERNET ADD : XX-XX-XX-XX-XX-XX SAMSUNG TECHWIN CO., LTD. MADE IN KOREA	CLASS 1 LASER PRODUCT     N5167 CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN PT03-000151A
SAMSUNG DIGITAL VIDEO RECORDER MODEL : SRD-873DP AC 100-240V~ 50/60Hz 4-1.5A M/C : XXXXXXXXXXXX Fac. ID : S  Jan 2010 S/N:XXXX XXXXXXXXXXXX ETHERNET ADD : XX-XX-XX-XX-XX-XX SAMSUNG TECHWIN CO., LTD. MADE IN KOREA	CLASS 1 LASER PRODUCT     N5167 CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN PT03-000151A

SAMSUNG 제 품 명 칭: 디지털 비디오 레코더(DVR) 모 델 명: SRD-1673DN 정 격 전 압: AC 100-240V~ 50/60Hz 4-1.5A 제 조 자/제 조 국 가: 삼성테크윈(주) / 한국 A/S 연락처: 1588-5772  KCC-REM-STW-SRD1673D	등급 1 레이저 제품 M/C : XXXXXXXXXXXX  제조년월 : 2010.01 S/N:XXXX XXXXXXXXXXXX ETHERNET ADD : XX-XX-XX-XX-XX-XX  주 의  전기적 충격의 위험이 있으니 열지 마십시오. Z6804 1328 07A/01
SAMSUNG 제 품 명 칭: 디지털 비디오 레코더(DVR) 모 델 명: SRD-1653DN 정 격 전 압: AC 100-240V~ 50/60Hz 4-1.5A 제 조 자/제 조 국 가: 삼성테크윈(주) / 한국 A/S 연락처: 1588-5772  KCC-REM-STW-SRD1653D	등급 1 레이저 제품 M/C : XXXXXXXXXXXX  제조년월 : 2010.01 S/N:XXXX XXXXXXXXXXXX ETHERNET ADD : XX-XX-XX-XX-XX-XX  주 의  전기적 충격의 위험이 있으니 열지 마십시오. Z6804 1328 07A/01
SAMSUNG 제 품 명 칭: 디지털 비디오 레코더(DVR) 모 델 명: SRD-873DN 정 격 전 압: AC 100-240V~ 50/60Hz 4-1.5A 제 조 자/제 조 국 가: 삼성테크윈(주) / 한국 A/S 연락처: 1588-5772  KCC-REM-STW-SRD-873D	등급 1 레이저 제품 M/C : XXXXXXXXXXXX  제조년월 : 2010.01 S/N:XXXX XXXXXXXXXXXX ETHERNET ADD : XX-XX-XX-XX-XX-XX  주 의  전기적 충격의 위험이 있으니 열지 마십시오. Z6804 1328 07A/01
SAMSUNG DIGITAL VIDEO RECORDER 型番: SRD-1673DN AC 100-240V~ 50/60Hz 4-1.5A 株式会社 ティービーアイ  ご注意：感電事故防止のため、カバーを開けないでください。 万が一故障した場合には、販売店に 問い合わせしてください。	M/C : XXXXXXXXXXXX  Jan 2010 S/N:XXXX XXXXXXXXXXXX ETHERNET ADD : XX-XX-XX-XX-XX-XX SAMSUNG TECHWIN CO., LTD. MADE IN KOREA  CAUTION  RISK OF ELECTRIC SHOCK DO NOT OPEN Z6804 1304 01A/01

SAMSUNG DIGITAL VIDEO RECORDER 型番: SRD-1653DN AC 100-240V~ 50/60Hz 4-1.5A 株式会社 ティービーアイ ご注意: 感電事故防止のため、カバーを開けないでください。 万が一故障した場合には、販売店に問い合わせしてください。 PS E	M/C : XXXXXXXXXXXX  Jan 2010 S/N:XXXX XXXXXXXXXXXX ETHERNET ADD : XX-XX-XX-XX-XX-XX SAMSUNG TECHWIN CO., LTD. MADE IN KOREA  CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN  Z6804 1304 01A/01
SAMSUNG DIGITAL VIDEO RECORDER 型番: SRD-873DN AC 100-240V~ 50/60Hz 4-1.5A 株式会社 ティービーアイ ご注意: 感電事故防止のため、カバーを開けないでください。 万が一故障した場合には、販売店に問い合わせしてください。 PS E	M/C : XXXXXXXXXXXX  Jan 2010 S/N:XXXX XXXXXXXXXXXX ETHERNET ADD : XX-XX-XX-XX-XX-XX SAMSUNG TECHWIN CO., LTD. MADE IN KOREA  CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN  Z6804 1304 01A/01
SAMSUNG 实时数字硬盘录像机 型号: SRD-1673P AC 100-240V~ 50/60Hz 4-1.5A M/C : VVXXXXXXXXX  2010.04 S/N:XXXX XXXXXXXXXXXX 网络 MAC : XX-XX-XX-XX-XX-XX	生产者: 天津三星泰科光电子有限公司 地址: 天津经济技术开发区微电子工业区微六路11号 中国制造 此为A级产品, 在生活环境中, 该产品可能会造成无线电干扰, 在这种情况下, 可能需要用户对其干扰采取切实可行的措施。  注意 电击危险 不要打开!  PT03-000151B

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
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)	6.54 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 – History of amendments and modifications:

1. Basic CB Ref. Cert. No. SG-OF-08225 (Test Report Ref. No.: 077-235542-000), dated 2012-10-22.
2. This report is for addition of model name (SRD-1673P), addition of national differences (China, Korea) and alternate registration of power cord set.
There is no additional test required for this amendment.

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) : 1. SAMSUNG TECHWIN CO., LTD. (40676)
 42, Sungju-dong, Changwon-si,
 Gyeongsangnam-do 641-716, Republic of Korea
 2. TIANJIN SAMSUNG TECHWIN OPTO-ELECTRONIC CO., LTD. (70297)
 11 WEILIU RD, MICRO-ELECTRONIC INDUSTRIAL PARK, TEDA, TIANJIN 300385, People's Republic of China

General product information:

1. Model SRD-1673DN is basic model, which was tested and it was the representative of the other models.
2. Model SRD-1673DP, SRD-1653DN, SRD-1653DP, SRD-873DN, SRD-873DP and SRD-1673P are identical to basic model SRD-1673DN except for model designation, Camera input channel, Video signal, Format and DVD as below;

Model name	Camera input channel	Video signal	Format	DVD Writer
SRD-1673DN	16	NTSC	4 CIF	Included
SRD-1673DP	16	PAL	4 CIF	Included
SRD-1653DN	16	NTSC	CIF	Included
SRD-1653DP	16	PAL	CIF	Included
SRD-873DN	8	NTSC	4 CIF	Not included
SRD-873DP	8	PAL	4 CIF	Not included
SRD-1673P	16	PAL	4 CIF	Not included

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) :	4-1.5 A	P
1.7.1.2	Identification markings		P
	Manufacturer's name or trade-mark or identification mark :		P
	Model identification or type reference :	SRD-1673DN, SRD-1673DP, SRD-1653DN, SRD-1653DP, SRD-873DN, SRD-873DP, SRD-1673P	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
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 ¹⁾
Power cord set (Korea)	Longwell	LP-486 H05VV-F LS-60	16 A, 250 V~ 3 x 0.75 mm ² 10 A, 250 V~	K 60884-1 K 60227 K 60320-1	EK(KTL)
Power cord set (China)	Longwell	LSG-31 60227 IEC 53 (RVV) LS-70	10 A, 250 V 3 x 0.75 mm ² 10 A 250 V	GB15934-2008	CCC
supplementary information					

Attachment - National Differences

China – Differences to IEC 60950-1:2005 (Test results according to last modification date 2012-06-06 in CB Bulletin)			
Clause	Requirement + Test	Result - Remark	Verdict
1.1.2	GB 4943.1-2011 applies to equipment for use at altitudes not exceeding 5000m above sea level, primarily in regions with moderate or tropical climates. Amend the third dashed paragraph of 1.1.2 as: —equipment intended to be used in vehicles, on board ships or aircraft, at altitudes greater than 5000m;		N/A
1.4.5	After the third paragraph, add a paragraph: If the equipment is intended for direct connection to an AC mains supply, the tolerances on RATED VOLTAGE shall be taken as +10%,-10% unless a wider tolerance is declared by the manufacturer. The first dash paragraph "-the RATED VOLTAGE is 230V single -phase or 400V three-phase, in which case the tolerance shall be taken as +10% and -10%" of IEC 60950-1:2005 is deleted in GB 4943.1-2011	+10 %, -10 %	P
1.4.12.1	Tma in clause 1.4.12.1 amended as: Tma: is the maximum ambient temperature permitted by the manufacturer's specification, or 35 °C, whichever is greater. Add note 1: For equipment not to be operated at tropical climatic conditions, Tma: is the maximum ambient temperature permitted by the manufacturer's specification, or 25 °C, whichever is greater. Add note 2: For equipment is to be operated at 2000m-5000m above sea leave, its temperature test conditions and temperature limits are under consideration.	Tma: 40 °C	P
1.5. 2	Add a note behind the first break off section in Clause 1.5.2: A component used shall comply with related requirements corresponding altitude of 5000m.		N/A
1.7	Add one paragraph before the last paragraph: The required marking and instruction should be given in normative Chinese unless otherwise specified.	Must be considered before marketed in China.	N/A
1.7.1	Based on the AC mains supply of China, the RATED VOLTAGE should be 220V (single phase) or 380V (three-phases) for single rated voltage, for RATED VOLTAGE RANGE, it should cover 220V or 380V (three-phases), for multiple RATED VOLTAGES, one of them should be 220V or 380V	AC 100-240 V~, 50/60 Hz	P

Attachment - National Differences

China – Differences to IEC 60950-1:2005 (Test results according to last modification date 2012-06-06 in CB Bulletin)			
Clause	Requirement + Test	Result - Remark	Verdict
	(three-phases) and set on 220V or 380V (three-phases) when manufactured. And the RATED FREQUENCY or RATED FREQUENCY RANGE should be 50Hz or include 50Hz.		
1.7.2.1	Add requirements of warning for equipment intended to be used at altitudes not exceeding 2000m or at non-tropical climate regions: For equipment intended to be used at altitude not exceeding 2000m, a warning label containing the following or a similar appropriate wording, or a symbol as in annex DD shall fixed to the equipment at readily visible place. "Only used at altitude not exceeding 2000m."  For equipment intended to be used in not-tropical climate regions, a warning label containing the following or a similar appropriate wording, or a symbol as in annex DD shall fixed to the equipment at readily visible place. "Only used in not-tropical climate regions."  If only the symbol used, the explanation of the symbol shall be contained in the instruction manual. The above statements shall be given in a language acceptable to the regions where the apparatus is intended to be used.		P
2.7.1	Amended the first paragraph as: Protection in PRIMARY CIRCUITS against overcurrent short-circuits and earth faults shall be provided as an integral part of the equipment except special provisions. And the protective device shall meet the requirement of Clause 5.3. Delete note of Clause 2.7.1.	Fuse used	P
2.9.2	First section of Clause 2.9.2 amended as two	No tropical climatic conditions.	N/A

Attachment - National Differences**China – Differences to IEC 60950-1:2005**

(Test results according to last modification date 2012-06-06 in CB Bulletin)

Clause	Requirement + Test	Result - Remark	Verdict
	sections: Where required by 2.9.1, 2.10.8.3, 2.10.10 or 2.10.11, humidity conditioning is conducted for 120 h in a cabinet or room containing air with ambient temperature $40\pm 2^{\circ}\text{C}$ and a relative humidity of $(93\pm 3)\%$. During this conditioning the component or subassembly is not energized. For equipment not to be operated at tropical climatic conditions, Where required by 2.9.1, 2.10.8.3, 2.10.10 or 2.10.11, humidity conditioning is conducted for 48 h in a cabinet or room containing air with a relative humidity of $(93\pm 3)\%$. The temperature of the air, at all places where samples can be located, is maintained within 2°C of any convenient value between 20°C and 30°C such that condensation does not occur. Due to pretreatment of equipment operated at high altitude area is humidity conditioning withstand hot shock, specific requirements are to be considered. Add note: For equipment to be operated at 2000 m - 5000m above sea level, assessment and requirement of humidity conditioning for Insulation material properties are considered.		
2.10.3.1	Amend the third paragraph of Clause 2.10.3.1 to be: These requirements apply for equipment to be operated up to 2000 m above sea level. For equipment to be operated at more than 2000 m above sea level and up to 5000m above sea level, the minimum CLEARANCE shall be multiplied by the factor 1.48 corresponding altitude of 5000m given in Table A.2 of IEC 60664-1. For equipment to be operated at more than 5000 m above sea level, the minimum CLEARANCE shall be multiplied by the factor given in Table A.2 of IEC 60664-1. Linear interpolation is permitted between the nearest two points in Table A.2. The calculated minimum CLEARANCE using this multiplication factor shall be rounded up to the next higher 0,1 mm increment.	Up to 2000 m	N/A
2.10.3.3& 2.10.3.4	Add "(applicable for altitude up to 2000m)" in header of Table 2K, 2L and 2M.		N/A
2.10.3.4	Add a new section above Table 2K and in Clause 2.10.3.4: Minimum CLEARANCES determined by above rules apply for equipment to be operated up to 2000m above sea level. For equipment to be operated at 2000 m - 5000m above sea level, the		N/A

Attachment - National Differences

China – Differences to IEC 60950-1:2005 (Test results according to last modification date 2012-06-06 in CB Bulletin)			
Clause	Requirement + Test	Result - Remark	Verdict
	minimum CLEARANCE shall be multiplied by the factor 1.48 corresponding altitude of 5000m given in Table A.2 of GB/T16935.1 (IEC 60664-1) . For equipment to be operated at more than 5000 m above sea level, the minimum CLEARANCE shall be multiplied by the factor given in Table A.2 of GB/T16935.1.		
3.2.1.1	Add a paragraph before the last paragraph: Plugs connected to AC mains supply shall comply with GB 1002 or GB 1003 or GB/T 11918 as applicable.		P
4.2.8	Clause 4.2.8 cathode ray tubes quoted Clause 18 of GB8898-2011. Delete note of Clause 4.2.8.		N/A
Annex E	Last section of Annex E amended as: For comparison of winding temperatures determined by the resistance method of this annex with the temperature limits of Table 4B, 35 °C shall be added to the calculated temperature rise. And add note: for equipment not to be operated at tropical climatic conditions, 25 °C shall be added to the calculated temperature rise to compare with the temperature of Table 4B.		N/A
Annex G.6	Change the second section of Clause G.6 to be: For equipment to be operated at 2000 m - 5000m above sea level, the minimum CLEARANCE shall be multiplied by the factor 1.48 corresponding altitude of 5000m given in Table A.2 of GB/T16935.1. For equipment to be operated at more than 5000 m above sea level, the minimum CLEARANCE shall be multiplied by the factor given in Table A.2 of IEC 60664-1. Linear interpolation is permitted between the nearest two points in Table A.2. The calculated minimum CLEARANCE using this multiplication factor shall be rounded up to the next higher 0,1 mm increment.	Up to 2000 m	N/A
Annex BB (informative)	Amended as : The differences between Chinese national standards GB 4943.1-2011 and GB 4943-2001.		P
Annex DD (normative)	Added annex DD: Instructions for the new safety warning labels. DD.1 Altitude warning label		P

Attachment - National Differences

China – Differences to IEC 60950-1:2005 (Test results according to last modification date 2012-06-06 in CB Bulletin)			
Clause	Requirement + Test	Result - Remark	Verdict
	 Meaning of the label: Evaluation for apparatus only based on altitude not exceeding 2000m, therefore it's the only operating condition applied for the equipment. There may be some potential safety hazard if the equipment is used at altitude above 2000m. DD.2 Climate warning label  Meaning of the label: Evaluation for apparatus only based on temperate climate condition, therefore it's the only operating condition applied for the equipment. There may be some potential safety hazard if the equipment is used in tropical climate region.		
Annex EE (informative)	Added annex EE: Illustration relative to safety explanation in normative Chinese, Tibetan, Mongolian, Zhuang Language and Uighu.	Must be considered before marketed in China.	N/A
Other amendments	In accordance with the relevant CTL decisions and the amendments of IEC 60950-1, the specific requirements or mistakes in IEC standard are corrected or editorially modified in this part, including clause 1.7, 2.1.1.7, 2.9.2, Table 2H, Figure 2H, F.8, F.9, M.3 and Annex U.		P
Quoting standards and reference documents	The principles of quoting and referring to other standards in Annex P and reference documents of IEC 60950-1 are as follows: If the date of the reference document is given, only that edition applies, excluding any subsequent corrigenda and amendments. However, parties to agreements based on this part are encouraged to investigate the possibility of applying the most recent editions of the reference documents. For undated references, the latest edition of the referenced document applies, including any corrigenda and amendments. For the usage of international standards in Chinese national standards and industry standards is various, in the aim of achieving easy operation and based on the requirements of GB/T 1.1 and GB/T 20000.2, when quoting an entire international standard in the normative quoting files and		P

Attachment - National Differences**China – Differences to IEC 60950-1:2005**

(Test results according to last modification date 2012-06-06 in CB Bulletin)

Clause	Requirement + Test	Result - Remark	Verdict
	reference documents of Annex P of this part, the principles of quotation are as follows: - If there is no national standard or industry standard corresponding to the international standard, then the international standard is quoted; - If there is national standard or industry standard corresponding to the international standard, then either the national or industry standard is quoted; - If the date of the national standard or industry standard is not given, the latest edition of the standard applies; - The national standard or industry standard number, corresponding international standard number and the consistency level code should be identified in parentheses behind the listed national standard or industry standard. When quoting several chapters or clauses of the international standard, the principles of quotation are as follows: - If there is no national standard or industry standard corresponding to the international standard, then the international standard is quoted; - If there is national standard or industry standard corresponding to the international standard, then either the national or industry standard is quoted. Meanwhile, in order to retain the relevant information on international standards, informative annex CC is increased, which gives the table about the comparison of the normative quoting files and reference documents in IEC 60950-1: 2005 and GB 4943.1-2011.		

Attachment - National Differences

Korea – National Differences to IEC 60950-1/A1:2009 (Test results according to last modification date 2012-05-31 in CB Bulletin)			
Clause	Requirement + Test	Result - Remark	Verdict
1.5.101	Plugs for the connection of the apparatus to the supply mains shall comply with the Korean requirement (KSC 8305).		P
8	EMC The apparatus shall comply with the relevant CISPR standards.	Must be considered before marketed in Korea.	N/A