

LVD TEST REPORT

Report No.: SES171019767001E

Product: LoRa RF Transceiver Module

Model No.: LoRa 1276-C1-868

Applicant: NiceRF Wireless Technology LTD.

Address: 309-314, Bldg A, Hongdu business building, Xin'an street,

Zone 43, Baoan Dist, Shenzhen 518101, China

Issued by: Shenzhen NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community,

Lab Location: Xixiang Street, Bao'an District, Shenzhen 518126 P.R.

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4 4 4 4	16port 10. 3E31/1019/0/001E		
d d d d	TEST REPORT		
SIEC/EN 60950-1			
Info	rmation technology equipment-Safety- Part 1:General requirements		
Penert Peference No.			
Report Reference No	: SEST/1019/6/001E		
Tested by (+ signature)	: Tiger Li		
Approved by (+ signature)	Coco Li		
Date of issue	: 2017-10-25		
Testing laboratory	Shenzhen NTEK Testing Technology Co., Ltd.		
Address	1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China		
Testing location	: Same as above		
Applicant's name	NiceRF Wireless Technology LTD.		
Address	: 309-314, Bldg A,Hongdu business building, Xin'an street, Zone 43, Baoan Dist, Shenzhen 518101, China		
Test specification	2 4 4 4 4 4 4 4 4 4		
Standard	: 🔲 IEC 60950-1:2005 + A1:2009 + A2:2013		
2 2 2 2 .	⊠ EN 60950-1:2006 + A11:2009 + A1:2010+ A12:2011+A2:2013		
Test procedure	: CE Attestation		
Procedure deviation	N/A		
Non-standard test method	: N/A		
Test Report Form/blank test report			
Test Report Form No			
Test Report Form(s) Originator			
Master TRF	·· Dated 2014-02		
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Test item			
Description	LoRa RF Transceiver Module		
Trademark	G-NiceRF		
Model and/or type reference			
Rating(s)	DC 3.3V120mA		
Manufacturer	NiceRF Wireless Technology LTD.		
Address	309-314, Bldg A,Hongdu business building, Xin'an street, Zone 43, Baoan Dist, Shenzhen 518101, China		



Particulars; test item vs. test requirements	
Equipment mobility	
Connection to the mains:	 □ pluggable equipment □ permanent connection □ for building-in □ not directly connected to the mains
Operating condition:	☐ continuous ☐ short-time ☒ intermittent
Over voltage category:	OVC I OVC II OVC III OVC IV N/A
Mains supply tolerance	N/A + + + + + +
Tested for IT power systems	NO STATE OF THE ST
IT testing, phase-phase voltage	N/A
Class of Equipment	☐ Class I ☐ Class II ☐ Not classified
Protection against ingress of water	IPX0
Test case verdicts	
Test case does not apply to the test object	N/A(Not applicable)
Test item does meet the requirement	P(Pass)
Test item does not meet the requirement	F(Fail)
Attachments	A A A A A A
Test	The the the the the the
Date of receipt of test item	
Date(s) of performance of test	2017-10-20 to 2017-10-25
General remarks	7, 7, 7, 7, 7, 7, 7,
This test report shall not be reproduced except in full v	without the written approval of the testing laboratory.
The test results presented in this report relate only to	the item tested.
"(See remark #)" refers to a remark appended to the r	eport.
"(See appended table)" refers to a table appended to	the report.
Throughout this report a ☐ comma / ☒ point is used	as the decimal separator.
General product information:	
-The equipment is LoRa RF Transceiver Module for	r information technology equipment.
-The testing operating ambient temperature to testing	ng sample is considered as 40°C.



2:2013 / EN 6095 account of	0-1:2006 + A11:2009 +	+ A1:2010+ A12:2011+ <i>F</i>	\2:2013 and the	ose deviations taken	into
CENELEC cor	mmon modifications	☐ United Kingdom			
☐ Finland	☐ Denmark	☐ Ireland			
Sweden	Germany	Spain		5 0 5	4
☐ Norway	Switzerland		也.		4
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71, 71	LoRa RF Transce	eiver Module	• • • • • • • • • • • • • • • • • • • •	25 25	
上、水、	Model No.: LoRa	1276-C1-868		*	*
	input: 3.3V 120	OmA		31 3	V
L +		ceRF Wireless Technolo		*	4
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	IEC/EN 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict	
7	7 7 7 7 7 7	7 7 7	7 7	
*	GENERAL		Р	
30	2 2 2 2 2 2			
1.5	Components	t at at at	Р	
1.5.1	General		Р	
* ~ 4	Comply with IEC 60950-1 or relevant component standard	(see appended tables 1.5.1)	P	
1.5.2	Evaluation and testing of components		Р	
1.5.3	Thermal controls	No thermal controls	N/A	
1.5.4	Transformers		N/A	
1.5.5	Interconnecting cables	4 4 4 6	N/A	
1.5.6	Capacitors bridging insulation		/ N/A	
1.5.7	Resistors bridging insulation	2 2 2 ,	Р	
1.5.7.1	Resistors bridging functional, basic or supplementary insulation	t at at at	P	
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits	+ + + + +	N/A	
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable		N/A	
1.5.8	Components in equipment for IT power systems		/N/A	
1.5.9	Surge suppressors	3 3 3 .	N/A	
1.5.9.1	General	+ + + + +	N/A	
1.5.9.2	Protection of VDRs		N/A	
1.5.9.3	Bridging of functional insulation by a VDR	6 6 6	N/A	
1.5.9.4	Bridging of basic insulation by a VDR		N/A	
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR	4 4 4 4	N/A	
7 14			14	
1.6	Power interface	4 4 4	P	
1.6.1	AC power distribution systems		N/A	
1.6.2	Input current	(see appended table 1.6.2)	Р	
1.6.3	Voltage limit of hand-held equipment	This appliance is not a hand-held equipment.	N/A	
1.6.4	Neutral conductor	4 4 4	N/A	
7 .0			.0	
1.7	Marking and instructions	4 4 4	Р	
1.7.1	Power rating and identification markings	* * * *	P	
1.7.1.1	Power rating marking		Р	



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Clause	Requirement + Test	Result - Remark	Verdict
* *	Multiple mains supply connections	- * * *	N/A
	Rated voltage(s) or voltage range(s) (V)	3.3V	Р
	Symbol for nature of supply, for d.c. only		Р
	Rated frequency or rated frequency range (Hz):		N/A
4	Rated current (mA or A)	120mA	Р
1.7.1.2	Identification markings	to ot ot	P
at lat	Manufacturer's name or trade-mark or identification mark	Manufacturer and Importer information please see user manual.	P
4	Model identification or type reference	See page 4	Р
4.0	Symbol for Class II equipment only	Class III equipment	N/A
7	Other markings and symbols	2 2 2 2	Р
1.7.1.3	Use of graphical symbols	* * * *	N/A
1.7.2	Safety instructions and marking	Instructions provided	Р
1.7.2.1	General		Р
1.7.2.2	Disconnect devices		N/A
1.7.2.3	Overcurrent protective device	4 4 4 4	N/A
1.7.2.4	IT power distribution systems		N/A
1.7.2.5	Operator access with a tool	2 2 2 2	N/A
1.7.2.6	Ozone		N/A
1.7.3	Short duty cycles	Continuous operation	N/A
1.7.4	Supply voltage adjustment:	No supply voltage adjustment	N/A
	Methods and means of adjustment; reference to installation instructions		N/A
1.7.5	Power outlets on the equipment	No standard power outlets.	N/A
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference)		N/A
1.7.7	Wiring terminals	-	N/A
1.7.7.1	Protective earthing and bonding terminals	4 4 4 4	N/A
1.7.7.2	Terminals for a.c. mains supply conductors		N/A
1.7.7.3	Terminals for d.c. mains supply conductors	4 4 4 4	N/A
1.7.8	Controls and indicators	- * * *	N/A
1.7.8.1	Identification, location and marking		N/A
1.7.8.2	Colours	- 4 4	N/A
1.7.8.3	Symbols according to IEC 60417		N/A
1.7.8.4	Markings using figures	4 4 4 4	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
470	La Latina et avultinia a sunta a sunta	Ciarla abusa sauta satu (N//A
1.7.9	Isolation of multiple power sources	Single power source only	N/A
1.7.10	Thermostats and other regulating devices	No such regulating devices	N/A
* *	Durability	No no Contro Otto	P
1.7.12	Removable parts	No removable parts	N/A
1.7.13	Replaceable batteries	- 4 4 4	N/A
4.7.44	Language(s)		
1.7.14	Equipment for restricted access locations:	2 2 2 2	N/A
2	PROTECTION FROM HAZARDS		P
2.1	Protection from electric shock and energy hazards	7 7 7 7	Р
2.1.1	Protection in operator access areas	* * * * *	P
2.1.1.1	Access to energized parts	2 2 2 2	N/A
* *	Test by inspection	- * * * *	N/A
	Test with test finger (Figure 2A)		N/A
	Test with test pin (Figure 2B):		N/A
0	Test with test probe (Figure 2C)		N/A
2.1.1.2	Battery compartments	7 7 7 7	N/A
2.1.1.3	Access to ELV wiring		N/A
-	Working voltage (Vpeak or Vrms); minimum distance through insulation (mm)	4 4 4 4	_
2.1.1.4	Access to hazardous voltage circuit wiring		N/A
2.1.1.5	Energy hazards:	4 4 4	N/A
2.1.1.6	Manual controls		N/A
2.1.1.7	Discharge of capacitors in equipment	2 2 2 2	N/A
* *	Measured voltage (V); time-constant (s)	- * * *	_
2.1.1.8	Energy hazards – d.c. mains supply		N/A
, L	a) Capacitor connected to the d.c. mains supply:		N/A
310	b) Internal battery connected to the d.c. mains supply:	30 30 30 3	N/A
2.1.1.9	Audio amplifiers:	* * * * *	N/A
2.1.2	Protection in service access areas	3" 3" 3" 3	N/A
2.1.3	Protection in restricted access locations	+ + + +	N/A
			W.
2.2	SELV circuits	1, 1, 1, 1,	Р
2.2.1	General requirements	Class III equipment (supplied by SELV).	Р



	IEC/EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdic
7	4 4 4 4 4 4	4 4 4 7	5
2.2.2	Voltages under normal conditions (V):		P
2.2.3	Voltages under fault conditions (V):	< 60V d.c. or <42.4Vpk	Р
2.2.4	Connection of SELV circuits to other circuits:	Connect to SELV circuit only	P
0 10			A.C.
2.3	TNV circuits	2 2 2 5	N/A
2.3.1	Limits		N/A
4	Type of TNV circuits:	7, 7, 7, 4	
2.3.2	Separation from other circuits and from accessible parts		N/A
2.3.2.1	General requirements	5 5 5	N/A
2.3.2.2	Protection by basic insulation		N/A
2.3.2.3	Protection by earthing	4, 4, 4, 4	N/A
2.3.2.4	Protection by other constructions:	+ * * *	N/A
2.3.3	Separation from hazardous voltages		N/A
	Insulation employed:		_
2.3.4	Connection of TNV circuits to other circuits		N/A
4	Insulation employed:	4 4 4 4	3 _
2.3.5	Test for operating voltages generated externally		N/A
- 2	2 2 2 2 2 2	7 7 7 7	2
2.4	Limited current circuits	* * * *	N/A
2.4.1	General requirements	Class III equipment	N/A
2.4.2	Limit values		N/A
	Frequency (Hz):		
7	Measured current (mA):	4 4 4	=
7.0	Measured voltage (V):		_
-	Measured circuit capacitance (nF or µF):		<u> </u>
2.4.3	Connection of limited current circuits to other circuits		N/A
7	4 4 4 4 4 4	4 4 4 4	
2.5	Limited power sources		N/A
4	a) Inherently limited output	7, 7, 7, 4	N/A
+ +	b) Impedance limited output	+ + + +	N/A
4	c) Regulating network or IC current limiter, limits output under normal operating and single fault condition	417 417 417 6	N/A
5 .0	Use of integrated circuit (IC) current limiters		N/A



2.6.5.6

Corrosion resistance

	IEC/EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
4	7 7 7 7 7 7	4 4 4	7 5
* *	d) Overcurrent protective device limited output	* * * * *	N/A
-	Max. output voltage (V), max. output current (A), max. apparent power (VA)	41 41 41	3 -
	Current rating of overcurrent protective device (A) .		_
4	7 7 7 7 7 7	7, 7, 7,	4
2.6	Provisions for earthing and bonding	* * * *	N/A
2.6.1	Protective earthing	Class III equipment	N/A
2.6.2	Functional earthing		N/A
7 20	Use of symbol for functional earthing		N/A
2.6.3	Protective earthing and protective bonding conductors	* * * * *	N/A
2.6.3.1	General		N/A
2.6.3.2	Size of protective earthing conductors		N/A
3,0	Rated current (A), cross-sectional area (mm²), AWG	3,0 3,0 3,0	<u> </u>
2.6.3.3	Size of protective bonding conductors	+ + + +	N/A
2:0	Rated current (A), cross-sectional area (mm²), AWG:	Ziv Ziv Ziv	<u> </u>
t 10	Protective current rating (A), cross-sectional area (mm²), AWG		_
2.6.3.4	Resistance of earthing conductors and their terminations; resistance (Ω) , voltage drop (V) , test current (A) , duration (min)		N/A
2.6.3.5	Colour of insulation:	444	N/A
2.6.4	Terminals		N/A
2.6.4.1	General	4, 4, 4,	N/A
2.6.4.2	Protective earthing and bonding terminals	* * * *	N/A
7	Rated current (A), type, nominal thread diameter (mm)	41 41 41	Z -
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors		N/A
2.6.5	Integrity of protective earthing	+ + + +	N/A
2.6.5.1	Interconnection of equipment		N/A
2.6.5.2	Components in protective earthing conductors and protective bonding conductors	* * * *	N/A
2.6.5.3	Disconnection of protective earth	44 44 44	N/A
2.6.5.4	Parts that can be removed by an operator		N/A
2.6.5.4	Parts that can be removed by an operator Parts removed during servicing		

N/A



	IEC/EN 60950-1		1
Clause	Requirement + Test	Result - Remark	Verdict
2.6.5.7	Screws for protective bonding	- * * *	N/A
2.6.5.8	Reliance on telecommunication network or cable distribution system	4" 4" 4" 4	N/A
0.0			4
2.7	Overcurrent and earth fault protection in primary circ	cuits 2 2	N/A
2.7.1	Basic requirements	- * * *	N/A
4.	Instructions when protection relies on building installation		N/A
2.7.2	Faults not simulated in 5.3.7		N/A
2.7.3	Short-circuit backup protection	7, 7, 7, 7, 7	N/A
2.7.4	Number and location of protective devices:	- * * *	N/A
2.7.5	Protection by several devices	3" 3" 3" 3	N/A
2.7.6	Warning to service personnel		N/A
			Ø.
2.8	Safety interlocks	5 5 5 5	N/A
2.8.1	General principles	No safety interlocks	N/A
2.8.2	Protection requirements	4, 4, 4, 4	N/A
2.8.3	Inadvertent reactivation	- * * * *	N/A
2.8.4	Fail-safe operation	3" 3" 3" 3	N/A
لم لم	Protection against extreme hazard	- 4- 4- 4-	N/A
2.8.5	Moving parts		N/A
2.8.6	Overriding	4 4 4 4	N/A
2.8.7	Switches, relays and their related circuits		N/A
2.8.7.1	Separation distances for contact gaps and their related circuits (mm)		N/A
2.8.7.2	Overload test		N/A
2.8.7.3	Endurance test	7 7 7 7	N/A
2.8.7.4	Electric strength test		N/A
2.8.8	Mechanical actuators	2 2 2 2	N/A
* *	* * * * * * * *	+ + + +	*
2.9	Electrical insulation		Р
2.9.1	Properties of insulating materials	The equipment is regarded as Class III. No electrical insulation is required for safety purpose.	N/A
2.9.2	Humidity conditioning	48 hrs	P
	Relative humidity (%), temperature (°C):	93%RH, 30°C	



2.10.3.9

Measurement of transient voltage levels

a) Transients from a mains supply

	IEC/EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
2.9.3	Grade of insulation	Functional insulation	N/A
2.9.4	Separation from hazardous voltages		N/A
	Method(s) used	Method 1	_
			-47
2.10	Clearances, creepage distances and distances thro	ough insulation	Р
2.10.1	General	Only SELV circuits inside the EUT. Functional insulation evaluated in accordance with clause 5.3.4. c).	P
2.10.1.1	Frequency::		N/A
2.10.1.2	Pollution degrees:		N/A
2.10.1.3	Reduced values for functional insulation		N/A
2.10.1.4	Intervening unconnected conductive parts	4 4 4 4	N/A
2.10.1.5	Insulation with varying dimensions		N/A
2.10.1.6	Special separation requirements		N/A
2.10.1.7	Insulation in circuits generating starting pulses	+ + + +	N/A
2.10.2	Determination of working voltage		N/A
2.10.2.1	General		N/A
2.10.2.2	RMS working voltage		N/A
2.10.2.3	Peak working voltage	4 4 4 4	N/A
2.10.3	Clearances		N/A
2.10.3.1	General San		N/A
2.10.3.2	Mains transient voltages	+ + + +	N/A
7 10	a) AC mains supply:		N/A
	b) Earthed d.c. mains supplies:		N/A
	c) Unearthed d.c. mains supplies:		N/A
4	d) Battery operation:	4 4 4 4	N/A
2.10.3.3	Clearances in primary circuits		N/A
2.10.3.4	Clearances in secondary circuits	21 21 21 2	N/A
2.10.3.5	Clearances in circuits having starting pulses	+ + + +	N/A
2.10.3.6	Transients from a.c. mains supply:		N/A
2.10.3.7	Transients from d.c. mains supply:	4 4 4 4	N/A
2.10.3.8	Transients from telecommunication networks and cable distribution systems		N/A

N/A

N/A



* *	IEC/EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
* *	For an a.c. mains supply:	- 4 4 4	N/A
	For a d.c. mains supply		N/A
1	b) Transients from a telecommunication network :	7 7 7	N/A
2.10.4	Creepage distances		N/A
2.10.4.1	General	4 4 4	N/A
2.10.4.2	Material group and comparative tracking index		N/A
2	CTI tests	20 20 20	N/A
2.10.4.3	Minimum creepage distances	- * * *	N/A
2.10.5	Solid insulation	10 10 10	N/A
2.10.5.1	General		N/A
2.10.5.2	Distances through insulation		N/A
2.10.5.3	Insulating compound as solid insulation	4, 4, 4,	N/A
2.10.5.4	Semiconductor devices	- 4 4 4	N/A
2.10.5.5.	Cemented joints	31 31 31	N/A
2.10.5.6	Thin sheet material – General	L	N/A
2.10.5.7	Separable thin sheet material		N/A
7	Number of layers (pcs):	4 4 4	_
2.10.5.8	Non-separable thin sheet material	.0 .0 .0	N/A
2.10.5.9	Thin sheet material – standard test procedure	2 2 2 .	N/A
* *	Electric strength test	- * * *	_
2.10.5.10	Thin sheet material – alternative test procedure	3" 3" 3"	N/A
.L .L	Electric strength test	L L L L	N/A
2.10.5.11	Insulation in wound components		N/A
2.10.5.12	Wire in wound components	4 4 4	N/A
2 .0	Working voltage	0.00	N/A
	a) Basic insulation not under stress:	2 2 2	N/A
* *	b) Basic, supplementary, reinforced insulation:	- * * *	N/A
	c) Compliance with Annex U:		N/A
,L ~.L	Two wires in contact inside wound component;		N/A
	angle between 45° and 90°:		
2.10.5.13	Wire with solvent-based enamel in wound components	4 4 4 4 A	N/A
U NO	Electric strength test		
4	Routine test	4 4 4	N/A
2.10.5.14	Additional insulation in wound components	10.00.00	N/A
	Working voltage:		N/A



3.1.6

Screws for electrical contact pressure

Report No. SES171019767001E IEC/EN 60950-1 Requirement + Test Result - Remark Verdict Clause Basic insulation not under stress: N/A - Supplementary, reinforced insulation: N/A 2.10.6 Construction of printed boards N/A 2.10.6.1 Uncoated printed boards N/A 2.10.6.2 Coated printed boards N/A 2.10.6.3 Insulation between conductors on the same inner N/A surface of a printed board 2.10.6.4 Insulation between conductors on different layers N/A of a printed board N/A Distance through insulation Number of insulation layers (pcs): N/A 2.10.7 Component external terminations N/A 2.10.8 Tests on coated printed boards and coated N/A components 2.10.8.1 Sample preparation and preliminary inspection N/A 2.10.8.2 Thermal conditioning N/A 2.10.8.3 Electric strength test N/A 2.10.8.4 Abrasion resistance test N/A 2.10.9 Thermal cycling N/A 2.10.10 Test for Pollution Degree 1 environment and N/A insulating compound 2.10.11 Tests for semiconductor devices and cemented N/A ioints 2.10.12 N/A Enclosed and sealed parts WIRING, CONNECTIONS AND SUPPLY 3.1 General 3.1.1 Current rating and overcurrent protection Ρ Protection against mechanical damage Wires do not touch sharp 3.1.2 edges which could damage the insulation and cause hazards. 3.1.3 Securing of internal wiring N/A Insulation on internal Insulation of conductors 3.1.4 conductors is considered to be of adequate quality and suitable for the application and the working voltage involved. 3.1.5 Beads and ceramic insulators N/A

N/A



L .L	IEC/EN 60950-1			
Clause	Requirement + Test Result - Remark	Verdict		
3.1.7	Insulating materials in electrical connections	N/A		
3.1.8	Self-tapping and spaced thread screws	N/A		
3.1.9	Termination of conductors	P		
0.1.0	10 N pull test	P		
3.1.10	Sleeving on wiring	N/A		
* *				
3.2	Connection to a mains supply	N/A		
3.2.1	Means of connection	N/A		
3.2.1.1	Connection to an a.c. mains supply	N/A		
3.2.1.2	Connection to a d.c. mains supply	N/A		
3.2.2	Multiple supply connections	N/A		
3.2.3	Permanently connected equipment	N/A		
of job	Number of conductors, diameter of cable and conduits (mm)	_		
3.2.4	Appliance inlets	N/A		
3.2.5	Power supply cords	N/A		
3.2.5.1	AC power supply cords	N/A		
* *	Type	_		
	Rated current (A), cross-sectional area (mm²), AWG	-		
3.2.5.2	DC power supply cords	N/A		
3.2.6	Cord anchorages and strain relief	N/A		
* *	Mass of equipment (kg), pull (N)	_		
3	Longitudinal displacement (mm)			
3.2.7	Protection against mechanical damage No power supply cord used	N/A		
3.2.8	Cord guards	N/A		
* *	Diameter or minor dimension D (mm); test mass (g)	_		
3	Radius of curvature of cord (mm)	_		
3.2.9	Supply wiring space	N/A		
0 10		19		
3.3	Wiring terminals for connection of external conductors	N/A		
3.3.1	Wiring terminals Class III equipment	N/A		
3.3.2	Connection of non-detachable power supply cords	N/A		
3.3.3	Screw terminals	N/A		
3.3.4	Conductor sizes to be connected	N/A		



اد کام	IEC/EN 60950-1	
Clause	Requirement + Test Result	- Remark Verdic
	Details and the second of the	7 7 7 7
	Rated current (A), cord/cable type, cross-sectional area (mm²)	
3.3.5	Wiring terminal sizes	N/A
d 10	Rated current (A), type, nominal thread diameter (mm)	ot 10 10 -
3.3.6	Wiring terminal design	N/A
3.3.7	Grouping of wiring terminals	N/A
3.3.8	Stranded wire	N/A
* 4		
3.4	Disconnection from the mains supply	N/A
3.4.1	General requirement Class I	III equipment N/A
3.4.2	Disconnect devices	N/A
3.4.3	Permanently connected equipment	N/A
3.4.4	Parts which remain energized	N/A
3.4.5	Switches in flexible cords	N/A
3.4.6	Number of poles - single-phase and d.c. equipment	N/A
3.4.7	Number of poles - three-phase equipment	N/A
3.4.8	Switches as disconnect devices	N/A
3.4.9	Plugs as disconnect devices	N/A
3.4.10	Interconnected equipment	N/A
3.4.11	Multiple power sources	N/A
4 \ \		* * * *
3.5	Interconnection of equipment	V V V P
3.5.1	General requirements	C C P
3.5.2	Types of interconnection circuits SELV	circuit only P
3.5.3	ELV circuits as interconnection circuits No ELV	V circuits N/A
3.5.4	Data ports for additional equipment	* * * *
4	PHYSICAL REQUIREMENTS	P
4.1	Stability	N/A
4	Angle of 10°	N/A
× 0	Test force (N)	N/A
4.2	Mechanical strength	P P P
4.2.1	General	at at at ap
7.4.1	Rack-mounted equipment.	N/A



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Clause	Requirement + Test	Result - Remark	Verdict	
4.2.2	Steady force test, 10 N	+	P	
4.2.3	Steady force test, 30 N		N/A	
4.2.4	Steady force test, 250 N	7 7 7 7	Р	
4.2.5	Impact test		N/A	
Ä	Fall test	7 7 7 7	N/A	
4 4	Swing test	t of of of	N/A	
4.2.6	Drop test; height (mm):	1000mm, 3drops	Р	
4.2.7	Stress relief test	70°C, 7h	P	
4.2.8	Cathode ray tubes		N/A	
	Picture tube separately certified:	7 7 7	N/A	
4.2.9	High pressure lamps		N/A	
4.2.10	Wall or ceiling mounted equipment; force (N):	4 4 4 4	N/A	
* *		* * * *	*	
4.3	Design and construction		Р	
4.3.1	Edges and corners	No sharp edges or corners	Р	
4.3.2	Handles and manual controls; force (N):		N/A	
4.3.3	Adjustable controls	4 4 4	N/A	
4.3.4	Securing of parts		P	
4.3.5	Connection by plugs and sockets		N/A	
4.3.6	Direct plug-in equipment	+ * * * *	N/A	
0 10	Torque		_	
at Ta	Compliance with the relevant mains plug standard	+ & & &	N/A	
4.3.7	Heating elements in earthed equipment	No such heating elements	N/A	
4.3.8	Batteries	L AL AL AL	N/A	
	- Overcharging of a rechargeable battery		N/A	
* *	- Unintentional charging of a non-rechargeable battery	+	N/A	
710	- Reverse charging of a rechargeable battery		N/A	
	- Excessive discharging rate for any battery		N/A	
4.3.9	Oil and grease	No oil and grease.	N/A	
4.3.10	Dust, powders, liquids and gases	No dust, powders, liquids and gases.	N/A	
4.3.11	Containers for liquids or gases	No containers for liquid and gases.	N/A	
4.3.12	Flammable liquids:	No flammable liquid.	N/A	
3	Quantity of liquid (I)	5 5 5	N/A	



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Clause	Requirement + Test	Result - Remark	Verdict
7	7 7 7 7 7 7	4 4 4	7 7
* 4	Flash point (°C)	at at a	N/A
4.3.13	Radiation		N/A
4.3.13.1	General		N/A
4.3.13.2	Ionizing radiation		N/A
4	Measured radiation (pA/kg)	4 4 4	<u> </u>
	Measured high-voltage (kV)		F _
4	Measured focus voltage (kV)	4 4 4	-
* *	CRT markings	* * * *	-
4.3.13.3	Effect of ultraviolet (UV) radiation on materials		N/A
ot of	Part, property, retention after test, flammability classification	of 10t 10t 10	N/A
4.3.13.4	Human exposure to ultraviolet (UV) radiation:	4, 4, 4,	N/A
4.3.13.5	Lasers (including laser diodes) and LEDs	* * * *	N/A
4.3.13.5.1	Lasers (including laser diodes)		N/A
	Laser class		
4.3.13.5.2	Light emitting diodes (LEDs)		_
4.3.13.6	Other types:	4 4 4	N/A
4.4	Protection against hazardous moving parts	2 2 2	N/A
4.4.1	General	No moving parts	N/A
4.4.2	Protection in operator access areas:		N/A
力大	Household and home/office document/media shredders	+ 4 4 6	N/A
4.4.3	Protection in restricted access locations:		N/A
4.4.4	Protection in service access areas	* * * *	N/A
4.4.5	Protection against moving fan blades		N/A
4.4.5.1	General	4 4 4	N/A
	Not considered to cause pain or injury. A)		N/A
4	Is considered to cause pain, not injury. B)	4. 4. 4.	N/A
* *	Considered to cause injury.	* * * *	N/A
4.4.5.2	Protection for users	71, 71, 74	N/A
ملہ ملہ	Use of symbol or warning:	AL AL AL A	N/A
4.4.5.3	Protection for service persons		N/A
4	Use of symbol or warning:	4 4 4	N/A
4			
4.5	Thermal requirements		Р



اء ` اء	IEC/EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
7	7 7 7 7 7 7	4 4 4	- 5
4.5.1	General		P
4.5.2	Temperature tests	2 2 2	Р
لير الح	Normal load condition per Annex L		
4.5.3	Temperature limits for materials	(see appended table 4.5)	Р
4.5.4	Touch temperature limits	(see appended table 4.5)	Р
4.5.5	Resistance to abnormal heat		N/A
		4 4 4	
4.6	Openings in enclosures		N/A
4.6.1	Top and side openings		N/A
	Dimensions (mm)		_
4.6.2	Bottoms of fire enclosures		N/A
4	Construction of the bottomm, dimensions (mm):	4 4 4 6	_
4.6.3	Doors or covers in fire enclosures	* * * * *	N/A
4.6.4	Openings in transportable equipment		N/A
4.6.4.1	Constructional design measures		N/A
7 20	Dimensions (mm)		_
4.6.4.2	Evaluation measures for larger openings	4 4 4 6	N/A
4.6.4.3	Use of metallized parts		N/A
4.6.5	Adhesives for constructional purposes	2 2 2 2	N/A
+ 4	Conditioning temperature (°C), time (weeks):	F * * * *	_
4.7	Resistance to fire	4 4 4	Р
4.7.1	Reducing the risk of ignition and spread of flame		P
	Method 1, selection and application of components wiring and materials	Method 1 is used.	Р
3.00	Method 2, application of all of simulated fault condition tests	Not used method 2.	N/A
4.7.2	Conditions for a fire enclosure	Refer below.	P
4.7.2.1	Parts requiring a fire enclosure		N/A
4.7.2.2	Parts not requiring a fire enclosure		Р
4.7.3	Materials		P
4.7.3.1	General	Components and materials have adequate flammability classification. See appended table 1.5.1.	Р
4.7.3.2	Materials for fire enclosures	+ + + +	N/A
4.7.3.3	Materials for components and other parts outside fire enclosures	Silv Silv Silv S	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
	2 2 2 2 2 2	7 7 7 7	
4.7.3.4	Materials for components and other parts inside fire enclosures		P
4.7.3.5	Materials for air filter assemblies	No air filters in the equipment.	N/A
4.7.3.6	Materials used in high-voltage components	No parts exceeding 4KV.	N/A
5	ELECTRICAL REQUIREMENTS AND SIMULATED	ABNORMAL CONDITIONS	Р
5.1	Touch current and protective conductor current		N/A
5.1.1	General	7 7 7 7	N/A
5.1.2	Configuration of equipment under test (EUT)		N/A
5.1.2.1	Single connection to an a.c. mains supply	5 5 5 6	N/A
5.1.2.2	Redundant multiple connections to an a.c. mains supply	+ 4 4 4	N/A
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply	+ 4 4 4 4	N/A
5.1.3	Test circuit		N/A
5.1.4	Application of measuring instrument		N/A
5.1.5	Test procedure		N/A
5.1.6	Test measurements	4 4 4	N/A
4 4	Supply voltage (V)	* * * * *	
3	Measured touch current (mA):	3 3 3 3	_
4 A	Max. allowed touch current (mA)		_
	Measured protective conductor current (mA):		_
	Max. allowed protective conductor current (mA):		_
5.1.7	Equipment with touch current exceeding 3,5 mA		N/A
5.1.7.1	General	7 7 7 7	N/A
5.1.7.2	Simultaneous multiple connections to the supply	* * * *	N/A
5.1.8	Touch currents to telecommunication networks and	31 31 31 3	N/A
ot ot	cable distribution systems and from telecommunication networks		at)
5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable distribution system	4 4 4 4 4 4 A	N/A
3	Supply voltage (V)	21 21 21 2	_
4- A	Measured touch current (mA)	+ 1 1 1	_
	Max. allowed touch current (mA)		_
5.1.8.2	Summation of touch currents from telecommunication networks	+ & & &	N/A
	a) EUT with earthed telecommunication ports:		N/A



4 4	IEC/EN 60950-1		+
Clause	Requirement + Test	Result - Remark	Verdic
et let	b) EUT whose telecommunication ports have no reference to protective earth		N/A
4	4 4 4 4 4 4	7 7 7 7	5
5.2	Electric strength	* * * *	N/A
5.2.1	General		N/A
5.2.2	Test procedure		N/A
0 10			-47
5.3	Abnormal operating and fault conditions	4 4 4 4	Р
5.3.1	Protection against overload and abnormal operation	(see appended table 5.3)	P
5.3.2	Motors		N/A
5.3.3	Transformers		N/A
5.3.4	Functional insulation:	Method c). Test results see appended table 5.3.	P
5.3.5	Electromechanical components	10 10 10	N/A
5.3.6	Audio amplifiers in ITE		N/A
5.3.7	Simulation of faults	Results see appended table.	Р
5.3.8	Unattended equipment	7 7 7 7	N/A
5.3.9	Compliance criteria for abnormal operating and fault conditions	No flame emitted, no molten material emitted, no deformation of enclosure	Р
5.3.9.1	During the tests	No fire propagated beyond the equipment. No molten metal was emitted.	P
5.3.9.2	After the tests	- * * * *	Р
			.4
3 7	CONNECTION TO TELECOMMUNICATION NETW		N/A
5.1	Protection of telecommunication network service per equipment connected to the network, from hazards i		N/A
5.1.1	Protection from hazardous voltages		N/A
5.1.2	Separation of the telecommunication network from e	arth 🕢 🗸	N/A
6.1.2.1	Requirements	4 4 4 4	N/A
* *	Supply voltage (V)	- 4 4 4	
3	Current in the test circuit (mA):	2 2 2 2	_
6.1.2.2	Exclusions	- * * *	N/A
0 10			W.
5.2	Protection of equipment users from overvoltages on	telecommunication networks	N/A
6.2.1	Separation requirements		N/A
5.2.2	Electric strength test procedure	2 2 2 2	N/A



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6.2.2.1	Impulse test	N/A
6.2.2.2	Steady-state test	N/A
6.2.2.3	Compliance criteria	N/A
6.3		N/A
0.3	Protection of the telecommunication wiring system from overheating	IN/A
* *	Max. output current (A):	-
	Current limiting method:	
7	CONNECTION TO CABLE DISTRIBUTION SYSTEMS	N/A
7.1	General	N/A
7.2	Protection of cable distribution system service	N/A
at what	persons, and users of other equipment connected to the system, from hazardous voltages in the equipment	
7.3	Protection of equipment users from overvoltages on the cable distribution system	N/A
7.4	Insulation between primary circuits and cable distribution systems	N/A
7.4.1	General	N/A
7.4.2	Voltage surge test	N/A
7.4.3	Impulse test	N/A
	5 5 5 5 5 5 5	7 7
A	ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE	N/A
A.1	Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)	N/A
A.1.1	Samples	
	Wall thickness (mm)	
A.1.2	Conditioning of samples; temperature (°C):	N/A
A.1.3	Mounting of samples:	N/A
A.1.4	Test flame (see IEC 60695-11-3)	N/A
	Flame A, B, C or D:	, ,,,,,
A.1.5	Test procedure	N/A
A.1.6	Compliance criteria	N/A
	Sample 1 burning time (s):	19/7
th. 15	Sample 2 burning time (s):	
4	Cample 2 During line (3)	



Report No. SES171019767001E IEC/EN 60950-1 Requirement + Test Result - Remark Verdict Clause A.2 Flammability test for fire enclosures of movable equipment having a total mass not N/A exceeding 18 kg, and for material and components located inside fire enclosures (see 4.7.3.2 and 4.7.3.4) A.2.1 Samples, material.....: Wall thickness (mm)..... A.2.2 Conditioning of samples; temperature (°C) N/A Mounting of samples A.2.3 N/A A.2.4 Test flame (see IEC 60695-11-4) N/A Flame A, B or C: A.2.5 Test procedure N/A A.2.6 Compliance criteria N/A Sample 1 burning time (s) Sample 2 burning time (s) Sample 3 burning time (s) A.2.7 Alternative test acc. to IEC 60695-11-5, cl. 5 and 9 N/A Sample 1 burning time (s): Sample 2 burning time (s) Sample 3 burning time (s): A.3 Hot flaming oil test (see 4.6.2) N/A N/A A.3.1 Mounting of samples A.3.2 Test procedure N/A A.3.3 Compliance criterion N/A ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and N/A 5.3.2) **B.1** General requirements N/A Position: Manufacturer: Type: Rated values **B.2** Test conditions N/A **B.3** Maximum temperatures N/A **B.4** Running overload test N/A **B.5** Locked-rotor overload test N/A Test duration (days): Electric strength test: test voltage (V)



Clause	IEC/EN 60950-1	
Siddse	Requirement + Test Result - Remark	Verdict
B.6	Running overload test for d.c. motors in secondary	N/A
0.0	circuits	IN/A
3.6.1	General C C C C C C C C C C C C C C C C C C C	N/A
3.6.2	Test procedure	N/A
3.6.3	Alternative test procedure	N/A
3.6.4	Electric strength test; test voltage (V)	N/A
3.7	Locked-rotor overload test for d.c. motors in secondary circuits	N/A
3.7.1	General	N/A
3.7.2	Test procedure	N/A
3.7.3	Alternative test procedure	N/A
3.7.4	Electric strength test; test voltage (V)	N/A
3.8	Test for motors with capacitors	N/A
3.9	Test for three-phase motors	N/A
3.10	Test for series motors	N/A
大人	Operating voltage (V):	_
3		31
X X	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)	N/A
7.4	Position:	_
	Manufacturer:	_
	Type:	_
	Rated values:	
4	1,0100 10100	<u> </u>
* 4	Method of protection	_
2.1		— — N/A
	Method of protection:	
	Method of protection: Overload test	
0.1	Method of protection: Overload test Insulation	N/A
	Method of protection: Overload test Insulation	N/A
0.2	Method of protection	N/A N/A
0.2	Method of protection	N/A N/A
0.1	Method of protection	N/A N/A N/A
0.1	Method of protection	N/A N/A N/A



الم أ	IEC/EN 60950-1	
Clause	Requirement + Test Result - Remark	Verdict
1 7 1	AND EV. C. ALTERNATIVE METHOD FOR DETERMINING MINIMUM	NI/A
3	ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES	N/A
G.1 C	Clearances	N/A
3.1.1	General	N/A
G.1.2	Summary of the procedure for determining minimum clearances	N/A
3.2	Determination of mains transient voltage (V)	N/A
G.2.1	AC mains supply	N/A
G.2.2	Earthed d.c. mains supplies	N/A
G.2.3	Unearthed d.c. mains supplies:	N/A
G.2.4	Battery operation	N/A
3 .3	Determination of telecommunication network transient voltage (V)	N/A
3.4	Determination of required withstand voltage (V)	N/A
9.4.1	Mains transients and internal repetitive peaks:	N/A
9.4.2	Transients from telecommunication networks:	N/A
9.4.3	Combination of transients	N/A
3.4.4	Transients from cable distribution systems	N/A
3.5	Measurement of transient voltages (V)	N/A
7.	a) Transients from a mains supply	N/A
* *	For an a.c. mains supply	N/A
	For a d.c. mains supply	N/A
+ \	b) Transients from a telecommunication network	N/A
3.6	Determination of minimum clearances:	N/A
4	7 7 7 7 7 7 7 7 7	4 4
	ANNEX H, IONIZING RADIATION (see 4.3.13)	N/A
4	2 2 2 2 2 2 2 2 2 2	4 4
* *	ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)	N/A
	Metal(s) used	_
,L ,L		
	ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.8)	N/A
(.1	Making and breaking capacity	N/A
(.2	Thermostat reliability; operating voltage (V):	N/A
C.3	Thermostat endurance test; operating voltage (V)	N/A
C.4	Temperature limiter endurance; operating voltage (V)	N/A



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K.5	Thermal cut-out reliability	N/A
K.6	Stability of operation	N/A
	77777777	7
	ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)	Р
	Typewriters — — — — — — — — — — — — — — — — — — —	N/A
L.2	Adding machines and cash registers	N/A
L.3	Erasers	N/A
L.4	Pencil sharpeners	N/A
L.5	Duplicators and copy machines	N/A
L.6	Motor-operated files	/N/A
L.7	Other business equipment	Р
* *	- 사 사 사 사 사 사 사 사	*
M	ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)	N/A
M.1	Introduction	N/A
M.2	Method A	N/A
M.3	Method B	N/A
M.3.1	Ringing signal	N/A
M.3.1.1	Frequency (Hz):	-
M.3.1.2	Voltage (V)	_
M.3.1.3	Cadence; time (s), voltage (V)	<u> </u>
M.3.1.4	Single fault current (mA):	_
M.3.2	Tripping device and monitoring voltage:	N/A
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage	N/A
M.3.2.2	Tripping device	N/A
M.3.2.3	Monitoring voltage (V):	N/A
0 0		-07
y Y	ANNEX N, IMPULSE TEST GENERATORS (see 1.5.7.2, 1.5.7.3, 2.10.3.9, 6.2.2.1, 7.3.2, 7.4.3 and Clause G.5)	N/A
N.1	ITU-T impulse test generators	N/A
N.2	IEC 60065 impulse test generator	N/A
P	ANNEX P, NORMATIVE REFERENCES	_
* *	· * * * * * * * * * * *	At .
Q	ANNEX Q, Voltage dependent resistors (VDRs) (see 1.5.9.1)	N/A



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Clause	Requirement + Test Result - Remark	Verdic
7	7 7 7 7 7 7 7 7 7	2 1/4
	- Preferred climatic categories	N/A
- 4	- Maximum continuous voltage:	N/A
+ /	- Combination pulse current:	N/A
	Body of the VDR Test according to IEC60695-11-5	N/A
ot so	Body of the VDR. Flammability class of material (min V-1)	N/A
4	7 7 7 7 7 7 7 7 7	4 4
3	ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES	N/A
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)	N/A
R.2	Reduced clearances (see 2.10.3)	N/A
+ \		*
3	ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)	N/A
6.1	Test equipment	N/A
3.2	Test procedure	N/A
3.3	Examples of waveforms during impulse testing	N/A
* ^	F &	*
	ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)	N/A
· .0		.0-
3	2 2 2 2 2 2 2 2 2 2	2 5
	ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)	N/A
4	4, 4, 4, 4, 4, 4, 4, 4, 4,	-
+ 0	+ & & & & & & & * * * * * * * * * * * * 	- A-
	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)	N/A
/.1	Introduction	N/A
1.2	TN power distribution systems	N/A
7	7 7 7 7 7 7 7 7	7 7
V	ANNEX W, SUMMATION OF TOUCH CURRENTS	N/A
V.1	Touch current from electronic circuits	N/A
V.1.1	Floating circuits	N/A
V.1.2	Earthed circuits	N/A
V.2	Interconnection of several equipments	N/A
V.2.1	Isolation	N/A
V.2.2	Common return, isolated from earth	N/A



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7	7 7 7 7 7 7 7 7 7 7	
W.2.3	Common return, connected to protective earth	N/A
X	ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1)	N/A
X.1	Determination of maximum input current	N/A
X.2	Overload test procedure	N/A
Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)	N/A
Y.1	Test apparatus	N/A
Y.2	Mounting of test samples:	N/A
Y.3	Carbon-arc light-exposure apparatus:	N/A
Y.4	Xenon-arc light exposure apparatus:	N/A
AL .		L
Z	ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2 and Clause G.2)	N/A
-	7 7 7 7 7 7 7 7 7 7	
AA 🕢	ANNEX AA, MANDREL TEST (see 2.10.5.8)	N/A
- 3	2 2 2 2 2 2 2 2 2 2	7, 5
BB	ANNEX BB, CHANGES IN THE SECOND EDITION	
7 34		
CC	ANNEX CC, Evaluation of integrated circuit (IC) current limiters	
CC.1	General	N/A
CC.2	Test program 1	N/A
CC.3	Test program 2	N/A
CC.4	Test program 3	N/A
CC.5	Compliance	N/A
7 , Q		.47
DD 🔷	ANNEX DD, Requirements for the mounting means of rack-mounted equipment	N/A
DD.1	General	N/A
DD.2	Mechanical strength test, variable N	N/A
DD.3	Mechanical strength test, 250N, including end	N/A
	stops:	
DD.4	Compliance:	N/A
+ 0		
É 💉	ANNEX EE, Household and home/office document/media shredders	N/A
E.1	General	N/A
E.2	Markings and instructions	N/A
<u> </u>	manange and metrodical	,

N/A



	Report No. SES1710	019767001E			
	IEC/EN 60950-1				
Clause	Requirement + Test Result - Remark	Verdict			
. 4	7 7 7 7 7 7 7 7 7 7	4 4			
at at	Information of user instructions, maintenance and/or servicing instructions:	N/A			
EE.3	Inadvertent reactivation test:	N/A			
EE.4	Disconnection of power to hazardous moving parts:	N/A			
	Use of markings or symbols	N/A			
EE.5	Protection against hazardous moving parts	N/A			
	Test with test finger (Figure 2A)	N/A			

Test with wedge probe (Figure EE1 and EE2):



Report No. SES171019767001E

		IEC/EN 60950-1		1
Clause	Requirement + Test	10 10 1	Result - Remark	Verdict

Clause	Requirement + Test Result - Remark	Verdict
ot so	Clauses, subclauses, notes, tables and figures which are additional to those in IEC60950-1 and it's amendmets are prefixed "Z"	
Contents	Add the following annexes:	Р
at zie	Annex ZA (normative) Normative references to international publications with their corresponding European publications	A S
(A2:2013)	Annex ZB (normative) Special national conditions Annex ZD (informative) IEC and CENELEC code designations for flexible cords	
General	Delete all the "country" notes in the reference document (IEC 60950-1:2005) according to the following list: 1.4.8 Note 2	P
General (A1:2010)	Delete all the "country" notes in the reference document (IEC 60950-1:2005/A1:2010) according to the following list: 1.5.7.1 Note 6.1.2.1 Note 2 6.2.2.1 Note 2 EE.3 Note	P
General (A2:2013)	Delete all the "country" notes in the reference document (IEC 60950-1:2005/A2:2013) according to the following list: 2.7.1 Note * 2.10.3.1 Note 2 6.2.2. Note * Note of secretary: Text of Common Modification remains unchanged.	
1.1.1 (A1:2010)	Replace the text of NOTE 3 by the following. NOTE 3 The requirements of EN 60065 may also be used to meet safety requirements for multimedia equipment. See IEC Guide 112, Guide on the safety of multimedia equipment. For television sets EN 60065 applies.	N/A



	IEC/EN 60950-1				
Clause	Requirement + Test	Result - Remark	Verdict		
.3.Z1	Add the following subclause:	·	N/A		
	1.3.Z1 Exposure to excessive sound pressure				
	The apparatus shall be so designed and constructed as to present no danger when used for its intended purpose, either in normal operating conditions or under fault conditions, particularly providing protection against exposure to excessive sound pressures from headphones or earphones. NOTE Z1 A new method of measurement is described in EN 50332-1, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 1: General method for "one package equipment", and in EN 50332-2, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level	The state of the s			
et et	measurement methodology and limit considerations - Part 2: Guidelines to associate sets with headphones coming from different manufacturers.	at at at	d .		
(A12:2011)	In EN 60950-1:2006/A12:2011	4 4 4	N/A		
of of	Delete the addition of 1.3.Z1 / EN 60950-1:2006		4		
7	Delete the definition 1.2.3.Z1 / EN 60950-1:2006 /A1:2010	4" 4" 4"			
1.5.1 (Added info*)	Add the following NOTE: NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2002/95/EC. New Directive 2011/65/11 *		P		
1.7.2.1 (A1:2010)	In addition, for a PORTABLE SOUND SYSTEM, the instructions shall include a warning that excessive sound pressure from earphones and headphones can cause hearing loss.		N/A		
1.7.2.1	In EN 60950-1:2006/A12:2011	444	N/A		
(A12.2011)	Delete NOTE Z1 and the addition for Portable Sound System. Add the following clause and annex to the existing standard and amendments. Zx Protection against excessive sound pressure from	om personal music players	N/A		



Report No. SES171019767001E IEC/EN 60950-1 Requirement + Test Result - Remark Verdict Clause N/A Zx.1 General This sub-clause specifies requirements for protection against excessive sound pressure from personal music players that are closely coupled to the ear. It also specifies requirements for earphones and headphones intended for use with personal music players. A personal music player is a portable equipment for personal use, that: - is designed to allow the user to listen to recorded or broadcast sound or video; and primarily uses headphones or earphones that can be worn in or on or around the ears; and allows the user to walk around while in use. NOTE 1 Examples are hand-held or body-worn portable CD players, MP3 audio players, mobile phones with MP3 type features, PDA's or similar equipment. A personal music player and earphones or headphones intended to be used with personal music players shall comply with the requirements of this sub-clause. The requirements in this sub-clause are valid for music or video mode only. The requirements do not apply: - while the personal music player is connected to an external amplifier; or while the headphones or earphones are not used. NOTE 2 An external amplifier is an amplifier which is not part of the personal music player or the listening device, but which is intended to play the music as a standalone music player. The requirements do not apply to: - hearing aid equipment and professional equipment: NOTE 3 Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be professional equipment. N/A analogue personal music players (personal music players without any kind of digital processing of the sound signal) that are brought to the market before the end of 2015. NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies. For equipment which is clearly designed or

intended for use by young children, the limits of EN

71-1 apply.

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Zx.2 Equipment requirements No safety provision is required for equipment that complies with the following: — equipment provided as a package (personal music player with its listening device), where the acoustic output LAeq.T is ≤ 85 dBA measured while playing the fixed "programme simulation noise" as described in EN 50332-1; and — a personal music player provided with an analogue electrical output socket for a listening device, where the electrical output is ≤ 27 mV measured as described in EN 50332-2, while playing the fixed "programme simulation noise" as described in EN 50332-1. NOTE 1 Wherever the term acoustic output is used in this clause, the 30 s A-weighted equivalent sound pressure level LAeq.T is meant. See also Zx.5 and Annex Zx. All other equipment shall: a) protect the user from unintentional acoustic outputs exceeding those mentioned above; and b) have a standard acoustic output level not exceeding those mentioned above, and automatically return to an output level not exceeding those mentioned above when the power is switched off; and		IEC/EN 60950-1		
No safety provision is required for equipment that complies with the following: - equipment provided as a package (personal music player with its listening device), where the acoustic output L _{Aeq.T} is ≤ 85 dBA measured while playing the fixed "programme simulation noise" as described in EN 50332-1; and - a personal music player provided with an analogue electrical output socket for a listening device, where the electrical output is ≤ 27 mV measured as described in EN 50332-2, while playing the fixed "programme simulation noise" as described in EN 50332-1. NOTE 1 Wherever the term acoustic output is used in this clause, the 30 s A-weighted equivalent sound pressure level L _{Aeq.T} is meant. See also Zx.5 and Annex Zx. All other equipment shall: a) protect the user from unintentional acoustic outputs exceeding those mentioned above; and b) have a standard acoustic output level not exceeding those mentioned above when the	lause	Requirement + Test	Result - Remark	Verdict
No safety provision is required for equipment that complies with the following: - equipment provided as a package (personal music player with its listening device), where the acoustic output L _{Aeq.T} is ≤ 85 dBA measured while playing the fixed "programme simulation noise" as described in EN 50332-1; and - a personal music player provided with an analogue electrical output socket for a listening device, where the electrical output is ≤ 27 mV measured as described in EN 50332-2, while playing the fixed "programme simulation noise" as described in EN 50332-1. NOTE 1 Wherever the term acoustic output is used in this clause, the 30 s A-weighted equivalent sound pressure level L _{Aeq.T} is meant. See also Zx.5 and Annex Zx. All other equipment shall: a) protect the user from unintentional acoustic outputs exceeding those mentioned above; and b) have a standard acoustic output level not exceeding those mentioned above when the	7	7 7 7 7 7 7	4 4 4	4 4
the acoustic output LAeq.⊤ is ≤ 85 dBA measured while playing the fixed "programme simulation noise" as described in EN 50332-1; and — a personal music player provided with an analogue electrical output socket for a listening device, where the electrical output is ≤ 27 mV measured as described in EN 50332-2, while playing the fixed "programme simulation noise" as described in EN 50332-1. NOTE 1 Wherever the term acoustic output is used in this clause, the 30 s A-weighted equivalent sound pressure level LAeq.⊤ is meant. See also Zx.5 and Annex Zx. All other equipment shall: a) protect the user from unintentional acoustic outputs exceeding those mentioned above; and b) have a standard acoustic output level not exceeding those mentioned above, and automatically return to an output level not exceeding those mentioned above when the	t tiet	No safety provision is required for equipment that complies with the following: – equipment provided as a package (personal	- 41 10 4 10 A	N/A
 a personal music player provided with an analogue electrical output socket for a listening device, where the electrical output is ≤ 27 mV measured as described in EN 50332-2, while playing the fixed "programme simulation noise" as described in EN 50332-1. NOTE 1 Wherever the term acoustic output is used in this clause, the 30 s A-weighted equivalent sound pressure level LAMPLAT is meant. See also Zx.5 and Annex Zx. All other equipment shall: a) protect the user from unintentional acoustic outputs exceeding those mentioned above; and b) have a standard acoustic output level not exceeding those mentioned above, and automatically return to an output level not exceeding those mentioned above when the 		the acoustic output L _{Aeq,T} is ≤ 85 dBA measured while playing the fixed "programme simulation	4100 4100 4100 A	
playing the fixed "programme simulation noise" as described in EN 50332-1. NOTE 1 Wherever the term acoustic output is used in this clause, the 30 s A-weighted equivalent sound pressure level LAEQ,T is meant. See also Zx.5 and Annex Zx. All other equipment shall: a) protect the user from unintentional acoustic outputs exceeding those mentioned above; and b) have a standard acoustic output level not exceeding those mentioned above, and automatically return to an output level not exceeding those mentioned above when the		 a personal music player provided with an analogue electrical output socket for a listening device, where the electrical output is ≤ 27 mV 		
clause, the 30 s A-weighted equivalent sound pressure level LAeq,T is meant. See also Zx.5 and Annex Zx. All other equipment shall: a) protect the user from unintentional acoustic outputs exceeding those mentioned above; and b) have a standard acoustic output level not exceeding those mentioned above, and automatically return to an output level not exceeding those mentioned above when the		playing the fixed "programme simulation noise" as described in EN 50332-1.	410 410 410 A	
a) protect the user from unintentional acoustic outputs exceeding those mentioned above; and b) have a standard acoustic output level not exceeding those mentioned above, and automatically return to an output level not exceeding those mentioned above when the	710	clause, the 30 s A-weighted equivalent sound pressure level LAeq,T is meant. See also Zx.5 and Annex Zx.	41 41 41 A	4
automatically return to an output level not exceeding those mentioned above when the	Z. C.	a) protect the user from unintentional acoustic outputs exceeding those mentioned above; and	THE STATE STATE	
power is switched off; and	* Aid	automatically return to an output level not exceeding those mentioned above when the	Alet Alet Ale	- A. C. A.
	* Ct	power is switched off; and	- 4 4	- Ct 2

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limit of 85 dBA

For example, if the player is set with the programme simulation noise to 85 dBA, but the average music level of the song is only

65 dBA, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the

song is not above the basic limit of 85 dBA

Report No. SES171019767001E IEC/EN 60950-1 Requirement + Test Result - Remark Verdict Clause c) provide a means to actively inform the user of N/A the increased sound pressure when the equipment is operated with an acoustic output exceeding those mentioned above. Any means used shall be acknowledged by the user before activating a mode of operation which allows an acoustic output exceeding those above. The acknowledgement does mentioned be repeated more than once every not need to 20 h of cumulative listening time; and NOTE 2 Examples of means include visual or audible signals. Action from the user is always required. NOTE 3 The 20 h listening time is the accumulative listening time, independent how often and how long the personal music player has been switched off. d) have a warning as specified in Zx.3; and e) not exceed the following: 1) equipment provided as a package (player with Its listening device), the acoustic output shall be ≤ 100 dBA measured while playing the fixed "programme simulation noise" described in EN 50332-1; and 2) a personal music player provided with an analogue electrical output socket for a listening device, the electrical output shall be ≤ 150 mV measured as described in EN 50332-2, while playing the fixed "programme simulation noise" described in EN 50332-1. For music where the average sound pressure (long term LAeq,T) measured over the duration of the song is lower than the average produced by the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song is below the basic limit of 85 dBA. In this case T becomes the duration of the sona. NOTE 4 Classical music typically has an average sound pressure (long term LAeq,T) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the song and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song is below the basic



SES171019767001E Report No. IEC/EN 60950-1 Requirement + Test Result - Remark Verdict Clause N/A Zx.3 Warning The warning shall be placed on the equipment, or on the packaging, or in the instruction manual and shall consist of the following: the symbol of Figure 1 with a minimum height of 5 mm; and - the following wording, or similar: "To prevent possible hearing damage, do not listen at high volume levels for long periods." Figure 1 - Warning label (IEC 60417-6044) Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level. Zx.4 Requirements for listening devices (headphones and earphones) N/A Zx.4.1 Wired listening devices with analogue N/A With 94 dBA sound pressure output LAeq,T, the input voltage of the fixed "programme simulation noise" described in EN 50332-2 shall be ≥ 75 mV. This requirement is applicable in any mode where the headphones can operate (active or passive), including any available setting (for example built-in volume level control).

NOTE The values of 94 dBA - 75 mV correspond with 85dBA -

27 mV and 100 dBA - 150 mV.



IEC/EN 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
	2 2 2 2 2 2 1 2 1	7 7 7 7	N/A
	Zx.4.2 Wired listening devices with digital in With any playing device playing the fixed "programme simulation noise" described in EN 50332-1 (and respecting the digital interface standards, where a digital interface standard ex that specifies the equivalent acoustic level), the acoustic output LAeq,T of the listening device sha ≤ 100 dBA.	kists	
	This requirement is applicable in any mode when the headphones can operate, including any available setting (for example built-in volume lever control, additional sound feature like equalization etc.).	vel	+
d 0	NOTE An example of a wired listening device with digital in a USB headphone.	put is	+ 4
	Zx.4.3 Wireless listening devices In wireless mode:	4 4 4	N/A
47 310	 with any playing and transmitting device playing the fixed programme simulation noise describe in EN 50332-1; and 		
et sie	 respecting the wireless transmission standard where an air interface standard exists that specifies the equivalent acoustic level; and with volume and sound settings in the listening 	g	
	device (for example built-in volume level contradditional sound feature like equalization, etc. set to the combination of positions that		
CT AND	maximize the measured acoustic output for th abovementioned programme simulation noise the acoustic output LAeq, T of the listening device shall be ≤ 100 dBA.		
	NOTE An example of a wireless listening device is a Blueto headphone.	ooth	
of Arie	Zx.5 Measurement methods Measurements shall be made in accordance wir EN 50332-1 or EN 50332-2 as applicable. Un stated otherwise, the time interval T shall be 30	less	N/A
et	NOTE Test method for wireless equipment provided withou listening device should be defined.		t et



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Clause	Requirement + Test	Result - Remark	Verdict
2.7.1	Replace the subclause as follows: Basic requirements		P
	To protect against excessive current, short-circuits and earth faults in PRIMARY CIRCUITS, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c):		4 4
	a) except as detailed in b) and c), protective devices necessary to comply with the requirements of 5.3 shall be included as parts of the equipment;		4 4
	b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and eart fault protection may be provided by protective devices in the building installation;	4, 4, 4,	
et just	c) it is permitted for PLUGGABLE EQUIPMENT TYPE B or PERMANENTLY CONNECTED EQUIPMENT, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses of circuit breakers, is fully specified in the installation instructions.	2 4 4	N/A
et jet	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for PLUGGABLE EQUIPMENT TYPE A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.		
2.7.2	This subclause has been declared 'void'.	4 4 4	N/A
3.2.3	Delete the NOTE in Table 3A, and delete also in this table the conduit sizes in parentheses.		N/A
3.2.5.1	Replace "60245 IEC 53" by "H05 RR-F"; "60227 IEC 52" by "H03 VV-F or H03 VVH2-F"; "60227 IEC 53" by "H05 VV-F or H05 VVH2-F2".		N/A
	In Table 3B, replace the first four lines by the following:		4 S
et suit	Up to and including 6 0,75 a) Over 6 up to and including 10 (0,75) 1,0 Over 10 up to and including 16 (1,0) 1,5		4 4
7.0	In the conditions applicable to Table 3B delete the words "in some countries" in condition ^{a)} .	4 4 4 4 4 A	4 4
et et	In NOTE 1, applicable to Table 3B, delete the second sentence.	t at at at	4



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Clause	Requirement + Test	10 10 14	Result - Remark	Verdic

3.2.5.1 (A2:2013) NOTE Z1 The harmonised code designations corresponding to the IEC cord types are given in Annex ZD 3.3.4 In Table 3D, delete the fourth line: conductor sizes for 10 to 13 A, and replace with the following: Over 10 up to and including 16 1,5 to 2,5 1,5 to 4 Delete the fifth line: conductor sizes for 13 to 16 A 4.3.13.6 (A1:2010) Replace the existing NOTE by the following: NOTE Z1 Attention is drawn to: 1999/519/EC: Council Recommendation on the limitation of exposure of the general public to electromagnetic fields 0 Hz to 300 GHz, and 2006/25/EC: Directive on the minimum health and safety requirements regarding the exposure of workers to risks arising from physical agents (artifical optical radiation). Standards taking into account mentioned Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated in the OJEC.	N/A N/A
for 10 to 13 A, and replace with the following: Over 10 up to and including 16 1,5 to 2,5 1,5 to 4 Delete the fifth line: conductor sizes for 13 to 16 A 4.3.13.6 (A1:2010) Replace the existing NOTE by the following: NOTE Z1 Attention is drawn to: 1999/519/EC: Council Recommendation on the limitation of exposure of the general public to electromagnetic fields 0 Hz to 300 GHz, and 2006/25/EC: Directive on the minimum health and safety requirements regarding the exposure of workers to risks arising from physical agents (artifical optical radiation). Standards taking into account mentioned Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated	
Delete the fifth line: conductor sizes for 13 to 16 A 4.3.13.6 (A1:2010) Replace the existing NOTE by the following: NOTE Z1 Attention is drawn to: 1999/519/EC: Council Recommendation on the limitation of exposure of the general public to electromagnetic fields 0 Hz to 300 GHz, and 2006/25/EC: Directive on the minimum health and safety requirements regarding the exposure of workers to risks arising from physical agents (artifical optical radiation). Standards taking into account mentioned Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated	N/A
A.3.13.6 (A1:2010) Replace the existing NOTE by the following: NOTE Z1 Attention is drawn to: 1999/519/EC: Council Recommendation on the limitation of exposure of the general public to electromagnetic fields 0 Hz to 300 GHz, and 2006/25/EC: Directive on the minimum health and safety requirements regarding the exposure of workers to risks arising from physical agents (artifical optical radiation). Standards taking into account mentioned Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated	N/A
(A1:2010) NOTE Z1 Attention is drawn to: 1999/519/EC: Council Recommendation on the limitation of exposure of the general public to electromagnetic fields 0 Hz to 300 GHz, and 2006/25/EC: Directive on the minimum health and safety requirements regarding the exposure of workers to risks arising from physical agents (artifical optical radiation). Standards taking into account mentioned Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated	N/A
NOTE Z1 Attention is drawn to: 1999/519/EC: Council Recommendation on the limitation of exposure of the general public to electromagnetic fields 0 Hz to 300 GHz, and 2006/25/EC: Directive on the minimum health and safety requirements regarding the exposure of workers to risks arising from physical agents (artifical optical radiation). Standards taking into account mentioned Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated	*
of exposure of the general public to electromagnetic fields 0 Hz to 300 GHz, and 2006/25/EC: Directive on the minimum health and safety requirements regarding the exposure of workers to risks arising from physical agents (artifical optical radiation). Standards taking into account mentioned Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated	477
requirements regarding the exposure of workers to risks arising from physical agents (artifical optical radiation). Standards taking into account mentioned Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated	4
Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated	4
	N/A
Annex H Replace the last paragraph of this annex by:	N/A
At any point 10 cm from the surface of the OPERATOR ACCESS AREA, the dose rate shall not exceed 1 µSv/h (0,1 mR/h) (see NOTE). Account is taken of the background level.	
Replace the notes as follows:	大
NOTE These values appear in Directive 96/29/Euratom.	1
Delete NOTE 2.	
Bibliograph Additional EN standards.	.67

ZA	NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH	
	THEIR CORRESPONDING EUROPEAN PUBLICATIONS	

10 30	ZB ANNEX (normative) SPECIAL NATIONAL CONDITION		7 A
Clause	Requirement + Test	Result - Remark	Verdict
1.2.4.1	In Denmark , certain types of Class I appliances (see 3.2.1.1) may be provided with a plug not establishing earthing conditions when inserted into Danish socket-outlets.		N/A
1.2.13.14 (A11:2009)	In Norway and Sweden , for requirements see 1.7.2.1 and 7.3 of this annex.	4 4 4 4	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
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d .d	ZB ANNEX (normati		
Clause	Requirement + Test	Result - Remark	Verdict
1.5.7.1 (A11:2009)	In Finland, Norway and Sweden , resistors bridging BASIC INSULATION in CLASS I PLUGGABLE EQUIPMENT TYPE A must comply with the requirements in 1.5.7.1. In addition when a single resistor is used, the resistor must withstand the resistor test in 1.5.7.2.	result - itematik	N/A
1.5.8	In Norway , due to the IT power system used (see annex V, Figure V.7), capacitors are required to be rated for the applicable line-to-line voltage (230 V	e) & & &	N/A
1.5.9.4	In Finland , Norway and Sweden , the third dashes sentence is applicable only to equipment as defined in 6.1.2.2 of this annex.	d of the total	N/A
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Clause	Requirement + Test		Result - Remark		Verdict

of of	ZB ANNEX (normative)		At .
1111	SPECIAL NATIONAL CONDITIONAL C	ONS (EN)	
Clause	Requirement + Test	Result - Remark	Verdict
1,7.2.1	In Finland, Norway and Sweden, CLASS I PLUGGABLE EQUIPMENT TYPE A intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be connected to an earthed mains socket-outlet.		N/A
4 4	The marking text in the applicable countries shall be as follows:	- * * * *	* >
A 2141	In Finland : "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"	310 310 310 4	3
at at	In Norway : "Apparatet må tilkoples jordet stikkontakt"		et s
4224	In Sweden : "Apparaten skall anslutas till jordat uttag"		4
1.7.2.1 (A11:2009)	In Norway and Sweden , the screen of the cable distribution system is normally not earthed at the entrance of the building and there is normally no		
at the	equipotential bonding system within the building. Therefore the protective earthing of the building installation need to be isolated from the screen of a cable distribution system.		
at Siat	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by e.g. a retailer.		
at sint	The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:	- 41th 41th 41th 4	A A
at such	"Equipment connected to the protective earthing of the building installation through the mains connection or through other equipment with a connection to protective earthing – and to a cable	AND AND AND A	A S
0 3.0°	distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a cable distribution system has	410 410 410 4	- T
OF ALCO	therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)."	AND AND AND A	- E
* *	* * * * * * *		*



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

at lat	ZB ANNEX (normative SPECIAL NATIONAL CONDITIONAL CONDI		and a
Clause	Requirement + Test	Result - Remark	Verdict
d 30	NOTE In Norway, due to regulation for installations of cable distribution systems, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.		N/A
4	Translation to Norwegian (the Swedish text will also be accepted in Norway):	4 4 4	
	"Utstyr som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av utstyret til kabel-TV nettet installeres en galvanisk isolator mellom utstyret og kabel- TV nettet."		
	Translation to Swedish: "Utrustning som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät		
	kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av utrustningen till kabel-TV nät galvanisk isolator finnas mellan utrustningen och kabel-TV nätet."		
1.7.2.1 (A2:2013)	In Denmark , CLASS I PLUGGABLE EQUIPMENT TYPE A intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be connected to an earthed mains socket-outlet.		N/A
	The marking text in Denmark shall be as follows: In Denmark : "Apparatets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord."		
1.7.5	In Denmark , socket-outlets for providing power to other equipment shall be in accordance with the Heavy Current Regulations, Section 107-2-D1, Standard Sheet DK 1-3a, DK 1-5a or DK 1-7a, when used on Class I equipment. For STATIONARY EQUIPMENT the socket-outlet shall be in accordance with Standard Sheet DK 1-1b or DK 1-5a.		N/A
1.7.5 (A11:2009)	For CLASS II EQUIPMENT the socket outlet shall be in accordance with Standard Sheet DKA 1-4a.	7 7 7 7	* >



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

	SPECIAL NATIONAL CONDITI	ONS (EN)	
Clause	Requirement + Test	Result - Remark	Verdict
1.7.5 A2:2013)	In Denmark , socket-outlets for providing power to other equipment shall be in accordance with the DS 60884-2-D1:2011.		N/A
OF STORY	For class I equipment the following Standard Sheets are applicable: DK 1-3a, DK 1-1c, DK 1-1d, DK 1-5a or DK 1-7a, with the exception		300
at what	for STATIONARY EQUIPMENT where the socket- outlets shall be in accordance with Standard Sheet DK 1-1b, DK 1-1c, DK 1-1d or DK 1-5a.		Sight a
at wat	Socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance with DS 60884-2-D1 standard sheet DKA 1-4a. Other current rating		at a
at ind	socket outlets shall be in compliance with by DS 60884-2-D1 Standard Sheet DKA 1-3a or DKA 1-3b.		at a
	Justification	7 7 7	
2.2.4	In Norway , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.		N/A
2.3.2	In Finland , Norway and Sweden there are additional requirements for the insulation. See 6.1.2.1 and 6.1.2.2 of this annex.		N/A
2.3.4	In Norway , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.	+	N/A
2.6.3.3	In the United Kingdom , the current rating of the circuit shall be taken as 13 A, not 16 A.		N/A
2.7.1	In the United Kingdom , to protect against excessive currents and short-circuits in the PRIMARY CIRCUIT of DIRECT PLUG-IN EQUIPMENT, tests according to 5.3 shall be	Till Till Till.	N/A
A 4	conducted, using an external protective device rated 30 A or 32 A. If these tests fail, suitable protective devices shall be included as integral parts of the DIRECT PLUG-IN EQUIPMENT, so		
2.10.5.13	In Finland , Norway and Sweden , there are additional requirements for the insulation, see 6.1.2.1 and 6.1.2.2 of this annex.		N/A
3.2.1.1	In Switzerland , supply cords of equipment having a RATED CURRENT not exceeding 10 A shall be provided with a plug complying with SEV 1011 or IEC 60884-1 and one of the following dimension sheets:		N/A
t ot	SEV 6532-2.1991 Plug Type 15 3P+N+PE 250/400 V, 10 A		.ct



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A A		IEC/EN 60950-1	t- 12- 12	- *	A
Clause	Requirement + Test		Result - Remark		Verdict

at a	ZB ANNEX (normative SPECIAL NATIONAL CONDIT		All A
Clause	Requirement + Test	Result - Remark	Verdict
	SEV 6533-2.1991 Plug Type 11 L+N 250 V, 10 A SEV 6534-2.1991 Plug Type 12 L+N+PE 250 V, 10 A		
	In general, EN 60309 applies for plugs for currents exceeding 10 A. However, a 16 A plug and socket-outlet system is being introduced in Switzerland, the plugs of which are according to the following dimension sheets, published in February 1998:		
at sid	SEV 5932-2.1998: Plug Type 25 , 3L+N+PE 230/400 V, 16 A	3 3 4 3 4 3 4	and an
at and	SEV 5933-2.1998:Plug Type 21, L+N, 250 V, 16A SEV 5934-2.1998: Plug Type 23, L+N+PE 250 V, 16 A	A STATE AND AND	ART AR
3.2.1.1	In Denmark , supply cords of single-phase equipment having a rated current not exceeding13 A shall be provided with a plug according to the Heavy Current Regulations, Section 107-2-D1.		N/A
at Fig	CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.		
at id	If poly-phase equipment and single-phase equipment having a RATED CURRENT exceeding 13 A is provided with a supply cord with a plug, this plug shall be in accordance with the Heavy Current Regulations, Section 107-2-D1 or EN 60309-2.		



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

	SPECIAL NATIONAL CONDITI		
Clause	Requirement + Test	Result - Remark	Verdict
3.2.1.1 (A2:2013)	In Denmark , supply cords of single-phase equipment having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1. CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a. If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2. Justification the Heavy Current Regulations, 6c		N/A
3.2.1.1	In Spain , supply cords of single-phase equipment having a rated current not exceeding 10 A shall be provided with a plug according to UNE 20315:1994. Supply cords of single-phase equipment having a rated current not exceeding 2,5 A shall be provided with a plug according to LINE EN E0075:1002		N/A
at sout	with a plug according to UNE-EN 50075:1993. CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules, shall be provided with a plug in accordance with standard UNE 20315:1994.		
at which	If poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with UNE-EN 60309-2.	The state state of	Cot &
3.2.1.1	In the United Kingdom , apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord and plug, shall be fitted with a 'standard plug' in accordance with Statutory Instrument 1768:1994 - The Plugs and Sockets etc. (Safety) Regulations 1994, unless exempted by those regulations.		N/A
A	NOTE 'Standard plug' is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.		**



		IEC/EN 60950-1		 ·L
Clause	Requirement + Test		Result - Remark	Verdict

at a	ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONAL		at .
Clause	Requirement + Test	Result - Remark	Verdict
3.2.1.1	In Ireland, apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to I.S. 411 by means of that flexible cable or cord and plug, shall be fitted with a 13 A plug in accordance with Statutory Instrument 525:1997 - National Standards Authority of Ireland (section 28) (13 A Plugs and Conversion Adaptors for Domestic Use) Regulations 1997.		N/A
3.2.4	In Switzerland , for requirements see 3.2.1.1 of this annex.	- * * * *	N/A
3.2.5.1	In the United Kingdom , a power supply cord with conductor of 1,25 mm2 is allowed for equipment with a rated current over 10 A and up to and including 13 A.		N/A
3.3.4	In the United Kingdom , the range of conductor sizes of flexible cords to be accepted by terminals for equipment with a RATED CURRENT of over 10 A up to and including 13 A is: • 1,25 mm² to 1,5 mm² nominal cross-sectional		N/A
0 .0	area.		.0
4.3.6	In the United Kingdom , the torque test is performed using a socket outlet complying with BS 1363 part 1:1995, including Amendment 1:1997 and Amendment 2:2003 and the plug part of DIRECT PLUG-IN EQUIPMENT shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16 and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.		N/A
4.3.6	In Ireland, DIRECT PLUG-IN EQUIPMENT is known as plug similar devices. Such devices shall comply with Statutory Instrument 526:1997 - National Standards Authority of Ireland (Section 28) (Electrical plugs, plug similar devices and sockets for domestic use) Regulations, 1997.	Considered when assessed to the national standard.	N/A



Requirement + Test

Clause

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ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)				
Clause	Requirement + Test	Result - Remark	Verdict	
5.1.7.1	In Finland , Norway and Sweden TOUCH CURRENT measurement results exceeding 3,5 mA r.m.s. are permitted only for the following equipment:		N/A	
-	STATIONARY PLUGGABLE EQUIPMENT TYPE A that	4 4 4	3	
(T) 31(0)	is intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, for example, in a	210 210 210 A	A STATE OF	
at sid	telecommunication centre; and has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR; and is provided with instructions for the	The side side	A ST	
at a	installation of that conductor by a SERVICE PERSON;		et .	
4 4	• STATIONARY PLUGGABLE EQUIPMENT TYPE B;	+	4	
7	• STATIONARY PERMANENTLY CONNECTED EQUIPMENT.	The Till Till I		



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Clause	Requirement + Test	A A K	Result - Remark		Verdict

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	SPECIAL NATIONAL CONDITIONS (EN)					
Clause	Requirement + Test	Result - Remark	Verdict			
6.1.2.1 (A1:2010)	In Finland , Norway and Sweden , add the following text between the first and second paragraph of the compliance clause:		N/A			
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	41 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3			
	 two layers of thin sheet material, each of which shall pass the electric strength test below, or 		3			
at sat	- one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	- set set set	of 3			
	Alternatively for components, there is no distance through insulation requirements for the insulation consisting of an insulating compound completely filling the casing, so that CLEARANCES and CREEPAGE DISTANCES do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition					
	- passes the tests and inspection criteria of 2.10.11 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of	ALL ALL ALL S				
0	2.10.10 shall be performed using 1,5 kV), and					
4 4	- is subject to ROUTINE TESTING for electric strength during manufacturing, using a test voltage of 1,5 kV.					



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

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Clause	Requirement + Test	Result - Remark	Verdict
	It is permitted to bridge this insulation with an optocoupler complying with 2.10.5.4 b). It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.		N/A
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:		- 3 C 2
	- the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in EN 60950-1:2006, 6.2.2.1;		
at sa	- the additional testing shall be performed of all the test specimens as described in EN 60384-14:		- 10+ 3
at sid	- the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.	et 210t 210t 210t	
6.1.2.2	In Finland, Norway and Sweden, the exclusions are applicable for PERMANENTLY CONNECTED EQUIPMENT, PLUGGABLE EQUIPMENT TYPE and equipment intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, e.g. in a telecommunication centre, and which has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR and is provided with instructions for the installation of that conductor be a SERVICE PERSON.	B zin	N/A
7.2	In Finland , Norway and Sweden , for requirement see 6.1.2.1 and 6.1.2.2 of this annex.	4, 4, 4,	N/A
at sie	The term TELECOMMUNICATION NETWORK in 6.1.2 being replaced by the term CABLE DISTRIBUTION SYSTEM.	et sint sint sind	- A 10 - A
7.3 (A11:2009)	In Norway and Sweden , for requirements see 1.2.13.14 and 1.7.2.1 of this annex.	et at at a	N/A



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Clause	Requirement + Te	st -	.47 .47	Result - Remark	247	Verdict

1.5.1 TABL	E: List of critical compone	ents	* * *	* *	P
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity ¹)
РСВ	Interchangeable	Interchangea ble	V-0, 130°C	UL 94,UL 796	UL
1) An asterisk in	dicates a mark which ass	sures the agreed	l level of surveillance	9 A- A-	- 4
Supplementary i	information:	10 10	10 10	10 10	14

1.6.2	TABLE: E	lectrical dat	a (in norma	l conditions	5) +	T A A P
U (V)	I (A)	Irated (A)	P (W)	Fuse #	Ifuse (A)	Condition/status
3.3	0.060	0.12	4	4	d - d	Normal operation

	2.1.1.5 c) 1) TABLE	E: max. V, A, VA to	est	**	* *	N/A
100	Voltage (rated) (Vd.c.)	Current (rated) (A)	Voltage (max.) (Vd.c.)	Current (max.) (A)	VA (max.) (VA)	
1		Q- Q	Q- Q	.dd		.0
	4 - 4	4, -4,	4 -4	4, 4,	4 4 - 4	. 4

	47 47	
2.2 TABLE: evaluation of voltage limiting	g components in SE	LV circuits N/A
Component (measured between)	max. voltage (V) (normal operation)	Voltage Limiting Components
	V peak V d.c.	
	.0-	
	-	- 4, 4, 4, 4,
Fault test performed on voltage limiting components		easured (V) in SELV circuits (V peak or V d.c.)
supplementary information:		



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2.5	TABLE:	Limited po	ower sources	7 7	* 2 * .	* * *	N/A
Circuit output	tested:	3	31 31	21 21	3		3" 3"
Note:	*	*	* * *	* *	* *	* *	*
Components	s Sar	nple No.	Uoc (Vd.c.)	I _{so}	, (A)	V	A
				Meas.	Limit	Meas.	Limit
			W W	- A		P P	10-
4-	4	2		4 - 4	4- 4		4 - 4
supplementa	ry informa	ation:					
SC=Short cire	cuit, OC=	Open circ	uit	3 3	3	31 31	3 3

2.10.3 and 2.10.4	TABLE: Clearance	e and cree	page distan	ce measurem	nents	4	N/A
	and creepage at/of/between:	U peak (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)
	7 7			<u></u>		2	
(T)	47	4	V V	7 -0	- C	Ø Ø	- C-
Supplementa	ry information:	4 4	. 4.	4	2 4	4	4. 4.

2.10.5	TABLE: Distance through insulatio	n measure	ments	21		N/A
Distance thro	ugh insulation (DTI) at/of:	U peak (V)	U rms (V)	Test volt- age (V)	Required DTI (mm)	DTI (mm)
T- 1	A	\F	<u>ا</u> ــــــــــــــــــــــــــــــــــــ	¥	<u>بار</u> -	<u></u>
Supplementa	ry information:	10	4	A STATE OF THE STA	7 14	160

4.5.1 TABLE: maximum temperature	s 🕡 🔞	7 .0	.0	4	.√P .⟨	
test voltage (V)	: See b	elow	4 4		_	
maximum temperature T of part/at::		T (°	°C)		allowed T _{max}	
	Input 3	3.3Vdc	-		(°C)	
PCB + + +	47	7.8	*	* *	130	
Ambient (°C)	24	1.6	4		<u> </u>	
temperature T of winding:	R ₁ (Ω)	$R_2(\Omega)$	T (°C)	allowed T _{max} (°C)	insulation class	
- 5, 5, 5, 5,	5, 5,		4 4		-4' 4'	



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Clause	Requiren	nent + Test	.0		.0		t - Remark	0	Verd	ict
7	7	7 7	- 4		4	4 4	7	-	7	S
1.5.2	TABLE: ball	pressure tes	st of therm	noplast	ic parts	大	* 4	- 사	N/A	
	allowed impr	ession diam	eter (mm))	:	≤ 2 mm	7.0			
oart						test tem	perature C)	impres	sion diamete (mm)	er
- 4	4	4. 4	-		5.	4. 4.	- 4.	4	4	4
Note: At 125°C	or T-Tamb-35	°C) (see tabl	le 4.5.1)	O	Silet.	Sill Si	d 3.0	- 3:01	Sign.	3
5.1.6	TABLE: touc	h current me	easureme	nt	-		0.0		N/A	
Conditio		<u> </u>	N → term		mA)	Limit(mA)		Commer		~
Condition	II L→ tellilli	ai A(IIIA)	IN → telli	ililai A(IIIA)	Limit(m/t)	72 (/)	Oomme	1113	
	-	- / /	<u> </u>	X/	4	1/4	4 14	-		1
Note(s):		7 7				7 7		~		
1010(3).										
	V , V		47	<u> </u>		^^		4		
4	31	4° 4	2	<u> </u>	3 .		4	3	3	3
5.2	TABLE: elec	tric strength	tests, imp	oulse te			e tests	ري بر -	N/A	3
	TABLE: elected between		tests, imp	oulse te	Volta shap (AC, I impul	ge test	e tests voltage (V)		N/A eakdown ⁄es / No	3
			tests, imp	oulse te	Volta shap (AC, I	ge test	voltage		eakdown	3
			tests, imp	oulse to	Volta shap (AC, I impul	ge test	voltage		eakdown	3
est voltag		ween:		*	Volta shap (AC, I impuli surg	ge test	voltage (V)	Y	eakdown /es / No	2,
est voltag	ge applied bety	ween:		*	Volta shap (AC, I impuli surg	ge test	voltage (V)	Y	eakdown /es / No	2,
est voltag	ge applied betweentary informat following tests	ween: ion: The test of 5.3.	performe	*	Volta shap (AC, I impuli surg	ge test	voltage (V)	Y	eakdown /es / No rding to 4.5.2	2,
est voltag	ge applied betweentary informat	ween: ion: The test of 5.3.	performe	*	Volta shap (AC, I impuli surg	ge test	ests as spec	Y	eakdown /es / No	2,
est voltag	ge applied betweentary informat following tests	ween: ion: The test of 5.3.	performe	d imme	Volta shap (AC, E impul: surg- ediately fo	ge test	ests as spec	Y	eakdown /es / No rding to 4.5.2	2,
est voltag	entary informat following tests	ween: ion: The test of 5.3. condition test	performe	d imme	Volta shap (AC, E impul: surge	ge test	ests as spec	Y	eakdown /es / No rding to 4.5.2	22,
est voltag	entary informat following tests TABLE: fault ambient temp	ween: ion: The test of 5.3. condition test of serature (°C)	performe	d imme	Volta shap (AC, E impuls surge	ge test pe DC, se, e) Dllowing the te	ests as spec	Y	eakdown /es / No rding to 4.5.2	2,
est voltag	entary informat following tests TABLE: fault ambient temp model/type of	ween: ion: The test of 5.3. condition test of superature (°C) power superature supera	performe sts oly	d imme	Volta shap (AC, E impul surge	ge test pe DC, se, e) 25.0, if no s	ests as spec	Y	eakdown /es / No rding to 4.5.2	2,
test voltag	entary informat following tests TABLE: fault ambient temp model/type of manufacturer rated marking	ween: ion: The test of 5.3. condition test of superature (°C) power superature supera	performe sts oly upply	d imme	Volta shap (AC, E impul surge	ge test pe DC, se, e) sellowing the test 25.0, if no sellowing the test	voltage (V) ests as spec	Y	eakdown /es / No rding to 4.5.2	2,
est voltage 	entary informat following tests TABLE: fault ambient temp model/type of manufacturer rated marking	ween: ion: The test of 5.3. condition test of power suppose of power sup	performe sts oly supply ge test	d imme	Volta shap (AC, E impul surge ediately for	ge test DC, se, e) 25.0, if no s fuse curre	ests as specify nt result	eified acco	eakdown /es / No rding to 4.5.2	



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Attachment 1 – Photo Documentation

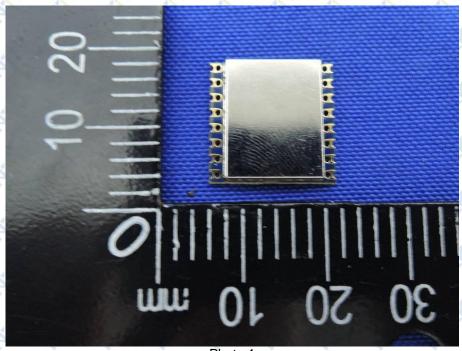
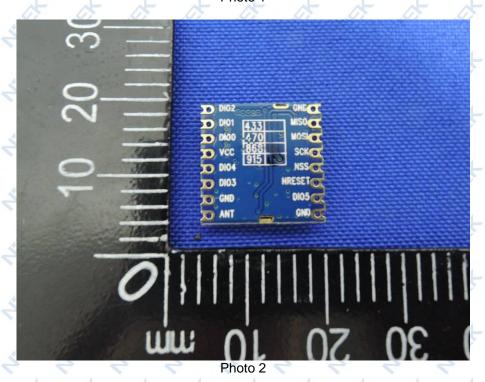


Photo 1



******END OF REPORT****