

# **Safety Test Report**

Report No.: AGC09377170502ES01

PRODUCT DESIGNATION	Tablet PC	
BRAND NAME	Vonino	
MODEL NAME	Navo S	
CLIENT	Vonino Electronics (HK) Limited	
DATE OF ISSUE	May 15, 2017	
STANDARD(S)	EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2	2013
REPORT VERSION	V1.0	

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The The Strength	TEST REPOR	
2 C 2 C	EN 60950-1	
Inform	nation technology equ Part 1: General requi	
Report Reference No:	AGC09377170502ES01	COM COM
Tested by (+ signature):	Johnson Ye	Johnson i Ye
Reviewed by (+ signature):	Jenny Li	Johnson i Ye Jenny li mette He
Approved by (+signature):	Matte He (Authorized Officer)	mette He
Date of issue:	May 15, 2017	GOT DO AND
Contents:	Total 52 pages.	
Testing laboratory	111	The state of the s
Name	Attestation of Global Comp	pliance (Shenzhen) Co., Ltd.
Address		4, Chaxi Sanwei Technical Industrial Park, istrict, Shenzhen, Guangdong, China
Testing location:	Same as above.	
Applicant	The Barrens of the State	CAR AND NO
Name	Vonino Electronics (HK) Li	imited
Address	#1109, 11/F, Kowloon Cer Hong Kong	nter 33 Ashley Road , Tsim Sha Tsui, Kowloon,
Manufacturer	The Barrier H	A Start Charles
Name:	Vonino Electronics (HK) Li	imited
Address:	#1109, 11/F, Kowloon Cer Hong Kong	nter 33 Ashley Road , Tsim Sha Tsui, Kowloon,
Test specification	N A B	The start Car
Standard	EN 60950-1:2006+A11:20	09+A1:2010+A12:2011+A2:2013
Test procedure:	Type test	
Procedure deviation:	N/A	
Non-standard test method:	N/A	
Test Report Form/blank test report	Franking C. Franking	
Test Report Form No:	AGC60950A7	
Test Report Form(s) Originator:	AGC	
Master TRF	Dated 2014-04	

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Test item	
Product designation Tablet PC	GUT FT AT
Brand name Vonino	
Test model Navo S	
Series model N/A	
Rating(s) 5.0V — , 2.0A	
Particulars	
Equipment mobility:	movable And-held Itransportable
Connection to the maine	stationary □for building-in □direct plug-in     □pluggable equipment □ type A □type B
Connection to the mains: :	permanent connection
	detachable power supply cord
gO - Fr Fr	non-detachable power supply cord
Operating condition:	
I Sand I Realized I I Strategie I	☐rated operating/ resting time:
Access location :	Operator accessible
Over voltage category(OVC)	
Mains supply tolerance(%) or absolute mains supply values	N/A
Tested for IT power systems:	□Yes ⊠No
IT testing, phase-phase voltage(V): :	
Class of Equipment:	Class I Class II Class III
Considered current rating of protective device as part of the building installation (A)	N/A
Pollution degree(PD):	□PD 1 □PD2 □PD3
Protection against ingress of water: :	IPX0
Altitude during operation (m):	2000m
Altitude of test laboratory (m):	<500m
Mass of equipment (kg):	<1Kg
Test case verdicts	
Test case does not apply to the test object:	N (/A)
Test item does meet the requirement: :	P (ass)
Test item does not meet the requirement: :	F (ail)
Testing	
Date of receipt of test item:	Aug. 13, 2016
Date(s) of performance of test:	Aug. 13– Aug. 22, 2016

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#### Attachment

Attachment A..... Photos of product

#### **General remarks**

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

"(See remark #)" refers to a remark appended to the report.

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

Throughout this report a comma is used as the decimal separator.

#### Report Revise Record:

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	100	2017-05-15	Valid	Original report

#### **General product information**

The original test report Ref. No. AGC06327160802ES01(dated 2016-08-22), was modified on 2017-05-15 to changed basic information, no further testing necessary.

The product supplied by build-in li-polymer battery, and charge from approved Travel Charger with Micro-B connection and is considered moveable and Class III (supplied by SELV).

Instructions and equipment marking related to safety is applied in the language that is acceptable in the country in which the equipment is to be sold.

The product was submitted and tested for use at the manufacturer's recommended ambient temperature (Tma) of 40 °C.

#### Summary of testing

The test item passed.

#### Copy of marking plates

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.

Travel Charger	Vonino	10
Model: VNA-0000001		CE
Input: 100-240V~, 50/60Hz	, 0.3A	1
Output: 5.0V ===, 2.0A		11
Shenzhen Eagletron Elect	ronic Co.,	
Ltd.		
Building C9, Meihuamei In		
Zhenmei Community, Gua	ngming New	Yer
District, Shenzhen, China		X
Importer: × × × × × ×		-
Address: $\times \times \times \times \times \times M$	ade In China	

#### Remark:

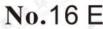
The CE marking and WEEE symbol (if any) should be at least 5mm and 7mm respectively in height.
 The markings and instructions are the minimum requirements required by safety standard. For final production

samples, the additional markings which do not give rise to misunderstanding may be added. 3) As declared by the applicant, the importer (and manufacturer, if it is different)'s name, registered trade name or

mark and the postal address will be marked on the products before being place on the market.

4) Marking on the packaging or in a document accompanying the electrical equipment is only acceptable if it is not possible to place such markings on the product.

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdic
-0	GU F	A B B	小杨
1	GENERAL	The second se	P
-1	A Province A Province of Contraction		
1.5	Components		Р
1.5.1	General	1 A B	Р
C <sup>2,2</sup>	Comply with IEC 60950 or relevant component standard	Components which were found to affect safety aspects comply with the requirements of this standard or with the safety aspects of the relevant IEC/EN component standards. (see appended table 1.5.1)	<b>C</b> P
1.5.2	Evaluation and testing of components	Components which are certified to IEC/EN and/or national standards are used correctly within their ratings. Components not covered by IEC/EN standards are tested under the conditions present in the equipment.	P No
1.5.3	Thermal controls	No any thermal controls.	Ν
1.5.4	Transformers	No transformers	🔬 N
1.5.5	Interconnecting cables	Cable to other unit is carrying only SELV voltages on and energy level below 240VA	Р
1.5.6	Capacitors bridging insulation	No such capacitor.	N
1.5.7	Resistors bridging insulation	No such components.	Ν
1.5.7.1	Resistors bridging functional, basic or supplementary insulation	A BAR A THE AND	N
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits	SC SC	Ν
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains antenna or coaxial cable	The second second	N
1.5.8	Components in equipment for IT power systems	The Barris	N
1.5.9	Surge suppressors	No such parts.	N
1.5.9.1	General		Ν
1.5.9.2	Protection of VDRs		N
1.5.9.3	Bridging of functional insulation by a VDR	- C.3	Ν
1.5.9.4	Bridging of basic insulation by a VDR		Ν
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR		N

1.6

**Power interface** 

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	EN 609	950-1	
Clause	Requirement – Test	Result – Remark	Verdict
1.6.1	AC power distribution systems	No direct mains connection.	N
1.6.2	Input current	(See appended table 1.6.2)	P
1.6.3	Voltage limit of hand-held equipment	Voltage<250V	Р
1.6.4	Neutral conductor	Class III equipment, no neutral conductor.	N

1.7	Marking and instructions	a CO a	P
1.7.1	Power rating	See below	Р
- 197	Rated voltage(s) or voltage range(s) (V):	5.0V(no show)	
	Symbol for nature of supply, for d.c. only:	== (no show)	
杨	Rated frequency or rated frequency range (Hz):		
F a constant	Rated current (mA or A):	2.0A (no show)	
1.7.1.2	Identification markings		Р
No	Manufacturer's name or trademark or identification mark:	See marking plate.	
10	Type/model or type reference:	See marking plate.	
F Stower	Symbol for Class II equipment only:	Class III equipment	
and the second se	Other marking and symbols:	See marking plate.	
1.7.1.3	Use of graphical symbols	-12° 03-	Р
1.7.2	Safety instructions and marking	Provided	Р
1.7.2.1	General	See below.	Р
1.7.2.2	Disconnect devices	No such devices	N
1.7.2.3	Overcurrent protective device	C.	N
1.7.2.4	IT power distribution systems		Ν
1.7.2.5	Operator access with a tool		N
1.7.2.6	Ozone	the the the second	Ν
1.7.3	Short duty cycles	Equipment is designed for continuous operation.	N
1.7.4	Supply voltage adjustment:	No such devices used	Ν
<sup>س</sup> 0	Methods and means of adjustment; reference to installation instructions:	AN AN AN	N
1.7.5	Power outlets on the equipment:		Ν
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference):	NGC	Ν
1.7.7	Wiring terminals		Ν

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
1.7.7.1	Protective earthing and bonding terminals:	Class III equipment, no protective earthing	N
1.7.7.2	Terminal for a.c. mains supply conductors	C <sup>a</sup>	N
1.7.7.3	Terminals for d.c. mains supply conductors		N
1.7.8	Controls and indicators		Р
1.7.8.1	Identification, location and marking	It is obviously unnecessary.	N
1.7.8.2	Colours	The colours used for LED are indicating function. No safety consideration.	S P
1.7.8.3	Symbols according to IEC 60417		N
1.7.8.4	Markings using figures	Not applicable.	N
1.7.9	Isolation of multiple power sources:	No direct connection to mains supply	Ν
1.7.10	Thermostats and other regulating devices	No thermostats or other regulating devices used inside battery pack are not adjustable during normal use.	N
1.7.11	Durability	The marking withstands required tests.	Р
1.7.12	Removable parts	No such parts.	🔬 N
1.7.13	Replaceable batteries	Internal battery cannot be replaced by user.	N
10-	Language(s)	C <sup>*</sup>	
1.7.14	Equipment for restricted access locations:	C V	N

2	PROTECTION FROM HAZARDS		P
2.1	Protection from electric shock and energy hazards	No hazardous parts in operator access areas.	Р
2.1.1	Protection in operator access areas		P
2.1.1.1	Access to energized parts	No energized parts.	P
	Test by inspection	a the case	
	Test with test finger(Figure 2A)		
- 5	Test with test pin (Figure 2B):		
-,0	Test with test probe (Figure 2C):		e
2.1.1.2	Battery compartments:	a the advertised of the second	N
2.1.1.3	Access to ELV wiring		N
a Comme	Working voltage (Vpeak or Vrms); minimum distance (mm) through insulation	AC	
2.1.1.4	Access to hazardous voltage circuit wiring	The Second States	N

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	EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
2.1.1.5	Energy hazards:	No energy hazard in operator access area.	Р		
2.1.1.6	Manual controls	Chi chi	N		
2.1.1.7	Discharge of capacitors in equipment	No primary circuit.	N		
Frank Classe	Time-constant (s); measured voltage (V):				
2.1.1.8	Energy hazards – d.c. mains supply	Not directly connect to mains supply	N		
- The	a)Capacitor connected to the d.c. mains supply:	a fill a Comment	N		
5	b)Internal battery connected to the d.c. mains supply:	No A	N		
2.1.1.9	Audio amplifiers:	No any amplifiers	N		
2.1.2	Protection in service access areas	and the state of t	N		
2.1.3	Protection in restricted access locations		N		

2.2	SELV circuits		Р
2.2.1	General requirements	42.4V peak or 60VDC are not exceeded in SELV circuit under normal operation or single fault condition.	P
2.2.2	Voltages under normal conditions (V)	Within SELV limits.	Р
2.2.3	Voltages under fault conditions (V):	Within SELV limits.	Р
2.2.4	Connection of SELV circuits to other circuits:	60° 500	N

2.3	TNV circuits		N
2.3.1	Limits	No TNV circuits.	N
~ 极】	Type of TNV circuits		N
2.3.2	Separation from other circuits and from accessible parts		N
2.3.2.1	General requirements	The Barrier B. The Contract	Ν
2.3.2.2	Protection by basic insulation		N
2.3.2.3	Protection by earthing		N
2.3.2.4	Protection by other constructions:		N N
2.3.3	Separation from hazardous voltages	A A A A	N
110-	Insulation employed:	C2-20	N
2.3.4	Connection of TNV circuits to other circuits	NO P	N
	Insulation employed:		N
2.3.5	Test for operating voltages generated externally	The State of The State	N

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EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
2.4	Limited current circuits	A B B	N	
2.4.1	General requirements	No limited current circuits to be evaluated.	Ν	
2.4.2	Limit values		N	
F Count	Frequency (Hz)		N	
a a la companya a comp	Measured current (mA):		N	
hir-	Measured voltage (V)	a Theorem C. Barrier	N	
Trainin	Measured capacitance (nF or μF)	A CON	N	
2.4.3	Connection of limited current circuits to other circuits		Ň	

2.5	Limited power sources		Р
	a)Inherently limited output	USB port provided for DC power received and data transmission only	Р
20	b)Impedance limited output	The Barrier the The Contract	N
	c)Regulating network limited output under normal operating and single fault condition	BAR ACTION	N
- F Journ	d)Overcurrent protective device limited output		🧌 N
and the second se	Max. output voltage (V), max. output current (A), max. apparent power (VA)	See appended table 2.5	
14	Current rating of overcurrent protective device (A)	CO CO	N
Class.	Use of integrated circuit (IC) current limited		N

2.6	Provisions for earthing and bonding		Ν
2.6.1	Protective earthing	Class III equipment.	N
2.6.2	Functional earthing		N
station	Use of symbol for functional earthing		N
2.6.3	Protective earthing and protective bonding conductors	C. T. M. Barris	N
2.6.3.1	General		N
2.6.3.2	Size of protective earthing conductors		N
2	Rated current (A), cross-sectional area (mm2), AWG	A State of Car	N
2.6.3.3	Size of protective bonding conductors	C NO	N
Conv	Rated current (A), cross-sectional area (mm2), AWG:		N

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Clause	Requirement – Test	Result – Remark	Verdict
2.6.3.4	Resistance of earthing conductors and their terminations, resistance( $\Omega$ ), voltage drop(V),test current (A), duration(min):	A.T. H. M. C. A. M. M. C. A.	N
2.6.3.5	Colour of insulation		N
2.6.4	Terminals		N
2.6.4.1	General	The second second	N
2.6.4.2	Protective earthing and bonding terminals	a Theorem C. Barris	N
Berghands	Rated current (A), type and nominal thread diameter (mm):	A DO N	N
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors	the state of	N
2.6.5	Integrity of protective earthing		NG
2.6.5.1	Interconnection of equipment	GO A	N
2.6.5.2	Components in protective earthing conductors and protective bonding conductors		N
2.6.5.3	Disconnection of protective earth	E Francis - Brand - C	O N
2.6.5.4	Parts that can be removed by an operator		N
2.6.5.5	Parts removed during servicing		🐀 N
2.6.5.6	Corrosion resistance	The Barrier Barrier	N
2.6.5.7	Screws for protective bonding	- 32 632	N
2.6.5.8	Reliance on telecommunication network or cable distribution system	CC NOU	N

Overcurrent and earth fault protection in primary circuits		N
Basic requirements	With power supply from approved Travel Charger or secondary lithium battery, no primary circuits inside.	N
Instructions when protection relies on building installation	THE TANK	N
Faults not covered in 5.3.7	C.C.	N
Short-circuit backup protection		Ν
Number and location of protective devices:		N
Protection by several devices	E THE	N
Warning to service personnel		Ν
	Basic requirements         Instructions when protection relies on building installation         Faults not covered in 5.3.7         Short-circuit backup protection         Number and location of protective devices         Protection by several devices	Basic requirements       With power supply from approved Travel Charger or secondary lithium battery, no primary circuits inside.         Instructions when protection relies on building installation       Instructions when protection relies on building installation         Faults not covered in 5.3.7       Short-circuit backup protection         Number and location of protective devices       Protection by several devices

2.8	Safety interlocks		N
2.8.1	General principles	No safety interlocks	N
2.8.2	Protection requirements	5- 5- C- S	N

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Clause	Requirement – Test	Result – Remark	Verdict	
2.8.3	Inadvertent reactivation	一 电声 一 电声	N	
2.8.4	Fail-safe operation	The Frank and the Frank and the former	N	
1	Protection against extreme hazard	CT CT	N	
2.8.5	Moving parts		N	
2.8.6	Overriding		N	
2.8.7	Switches and relays	The Barnes - B. Francisco	N	
2.8.7.1	Contact gaps (mm)	A CO	N	
2.8.7.2	Overload test		N	
2.8.7.3	Endurance test		sk N	
2.8.7.4	Electric strength test	Ber Harris	N	
2.8.8	Mechanical actuators		N	

2.9	Electrical insulation		N
2.9.1	Properties of insulating materials	Natural rubber, asbestos or hygroscopic materials are not used.	Ν
2.9.2	Humidity conditioning		Ν
The state	Humidity (%),temperature (°C)		Ν
2.9.3	Grade of insulation	The Barrier The State	N
2.9.4	Separation from hazardous voltages	- 5.3 3.2	Ν
14	Method(s) used:	60° - 60	N

2.10	Clearances, creepage distances and distances through insulation		N
2.10.1	General	Functional insulation only.	N
~ 极]	Frequency		N
Frank Calendo	Pollution degrees	All Are	N
~	Reduced values for functional insulation	The second second	N
	Intervening unconnected conductive parts	The state	N
	Insulation with varying dimensions		N
-	Special separation requirements		N
30	Insulation in circuits generating starting pulses		N
2.10.2	Determination of working voltage	C.	N
2.10.3	Clearances		N
2.10.3.1	General	NOT L	N
2.10.3.2	Mains transient voltages	A BELLE	N
	a)AC mains supply	- Falter	N

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Clause	Requirement – Test	Result – Remark	Verdict
	b)Earthed d.c. mains supplies	A REAL REAL	N
En tr	c)Unearthed d.c. main supplies	The second of the second of the	N
	d)Battery operation		N
2.10.3.3	Clearances in primary circuits		N
2.10.3.4	Clearances in secondary circuits	1 下生	N
2.10.3.5	Clearances in circuits having starting pulses	The Benning and Benning Contract	N
2.10.3.6	Transients from a.c. mains supply		N
2.10.3.7	Transients from d.c. mains supply:		N
2.10.3.8	Transients from telecommunication networks and cable distribution systems:	8. 18. 18. 18. 18. 18. 18. 18. 18. 18. 1	S N
2.10.3.9	Measurement of transient voltage levels		N
Fatoner	a)Transients from a mains supply		N
and a second	For a.c. mains supply:		N
S	For d.c. mains supply:	The Barrier The The Comment	N
	b)Transients from	53 C 30 SG	<sup>∨</sup> N
2.10.4	Creepage distances	CO P	N
2.10.4.1	General		N
2.10.4.2	Material group and comparative tracking index	The state of the	N
- 2	CTI tests:	C** - C**	N
2.10.4.3	Minimum creepage distances	C N	N
2.10.5	Solid insulation		N
2.10.5.1	General	The second second	N
2.10.5.2	Distances through insulation	City City	N
2.10.5.3	Insulation compound as solid insulation		N
2.10.5.4	Semiconductor device		N
2.10.5.5	Cemented joints	the second second	N
2.10.5.6	Thin sheet material - General	T T AMAGE C T	N
2.10.5.7	Separable thin sheet material		N
C	Number or layers(pcs)		N
2.10.5.8	Non-separable thin sheet material	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N
2.10.5.9	Thin sheet material – standard test procedure	and a failed and	N
B. The	Electric strength test		N
2.10.5.10	Thin sheet material – alternative test procedure		N
10	Electric strength test	The Barrier	N
2.10.5.11	Insulation in wound components	1.3.1 5.1 6	N

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Clause	Requirement – Test	Result – Remark	Verdict
2.10.5.12	Wire in wound components	A REP AR	N
	Working voltage:	The state of the s	Ν
	a)Basic insulation not under stress:		N
T. The Manual	b)Basic, supplementary, reinforced insulation:		N
aston of Car	c)Compliance with Annex U:	A A A	N
1	Two wires in contact inside wound component; angle between 45° and 90°	Carling Carling	<b>N</b>
2.10.5.13	Wire with solvent-based enamel in wound components		Ν
.C	Electric strength test		N
	Rountine test	and the second of the second	N
2.10.5.14	Additional insulation in wound components	C NO	N
instance of the	Working voltage		N
-0	-basic insulation not under stress:	B. T. B.	Ν
	-Supplementary, reinforced insulation:	5 Francis - Station - C	<b>N</b>
2.10.6	Construction of printed boards		N
2.10.6.1	Uncoated printed boards		🔬 N
2.10.6.2	Coated printed boards	The Part of the Pa	N
2.10.6.3	Insulation between conductors on the same inner surface of a printed board	CGR Store CGCR Store	N
2.10.6.4	Insulation between conductors on different layers of a printed board		N
GU.	Distance through insulation	the the	N
-	Number of insulation layers(pcs)	C <sup>3</sup>	N
2.10.7	Component external terminations		N
2.10.8	Tests on coated printed boards and coated components		N
2.10.8.1	Sample preparation and preliminary inspection	a There are a Barrer	Ν
2.10.8.2	Thermal conditioning		N
2.10.8.3	Electric strength test		N
2.10.8.4	Abrasion resistance test		N
2.10.9	Thermal cycling	Charles - Ch	N
2.10.10	Test for Pollution Degree 1 environment and insulating compound	CC NO	N
2.10.11	Test for semiconductor devices and cemented joints	LA BAR AND	N
2.10.12	Enclosed and sealed parts		N

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	EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
-0	GUL	A A A A A A A A A A A A A A A A A A A	56 HB		
3	WIRING, CONNECTIONS AND SUPPLY	The Second of Francisco - The	Р		
3.1	General	C C C	Р		
3.1.1	Current rating and overcurrent protection	Adequate cross sectional areas on internal wiring. No internal wire for primary power distribution.	Р		
3.1.2	Protection against mechanical damage	Wires do not touch sharp edges that could damage the insulation and cause hazard.	<b>C</b> P		
3.1.3	Securing of internal wiring	Internal wiring is reliable secured	P 🐋		
3.1.4	Insulation of conductors	The insulation of the individual conductors is suitable for the application and the working voltage.	P		
3.1.5	Beads and ceramic insulators	No such insulators provided.	N		
3.1.6	Screws for electrical contact pressure	No electrical contact pressure by screwed connections.	Ν		
3.1.7	Insulating materials in electrical connections	No contact pressure through insulating material.	N		
3.1.8	Self-tapping and spaced thread screws	Thread-cutting or space thread screws are not used for electrical connections.	N		
3.1.9	Termination of conductors		P		
0	10 N pull test	The state of the state	Р		
3.1.10	Sleeving on wiring	No sleeving used to provide supplementary insulation	N		

Connection to a mains supply		N
Means of connection	Class III equipment, connected to mains supply by approved Travel Charger	N
Connection to an a.c. mains supply		N
Connection to a d.c. mains supply	The state	Ν
Multiple supply connections	The case	N
Permanently connected equipment		() N
Number of conductors, diameter (mm) of cable and conduits		
Appliance inlets	A A A A A A A A A A A A A A A A A A A	N
Power supply cords		N.C
AC power supply cords	NGU PA	N
Туре:		
Rated current (A), cross-sectional area (mm <sup>2</sup> ), AWG:	3.3. <sup>11</sup> - 3.3. <sup>11</sup>	-
	Means of connection	Means of connection       Class III equipment, connected to mains supply by approved Travel Charger         Connection to an a.c. mains supply       Connection to a d.c. mains supply         Multiple supply connections       Permanently connected equipment         Number of conductors, diameter (mm) of cable and conduits       Appliance inlets         Power supply cords       AC power supply cords         AC power supply cords       Type         Rated current (A), cross-sectional area (mm <sup>2</sup> ),

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	EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
3.2.5.2	DC power supply cords	1 B	N		
3.2.6	Cord anchorages and strain relief	The Second State of Second	N		
. 1	Mass of equipment (kg), pull (N)				
The Man	Longitudinal displacement (mm)	NOT NO			
3.2.7	Protection against mechanical damage	The second second	N		
3.2.8	Cord guards	The Constant of the second second	N		
2 TP	D (mm); test mass (g)	Same and a			
90° '	Radius of curvature of cord (mm):				
3.2.9	Supply wiring space		s N		

3.3	Wiring terminals for connection of external cond	ductors	<u> </u>	N
3.3.1	Wiring terminals			Ν
3.3.2	Connection of non-detachable power supply cords	THE	T. H. B.	Ν
3.3.3	Screw terminals	B. Jacob C	1 .C	∕ N
3.3.4	Conductor sizes to be connected			Ν
The states	Rated current (A), cord/cable type, cross-sectional area (mm <sup>2</sup> ):	The last	5. B. B. B.	
3.3.5	Wiring terminal sizes	The second Control	C 12 -	Ν
The second	Rated current (A), type and nominal thread diameter (mm):	CC B	SCO.	
3.3.6	Wiring terminals design	In	A.P.	NB
3.3.7	Grouping of wiring terminals	The Barrier	T The contraction	N
3.3.8	Stranded wire	ione - C	Part C	Ν

3.4	Disconnection from the mains supply		N
3.4.1	General requirement	Class III equipment, connected to mains supply by approved Travel Charger.	N
3.4.2	Disconnect devices		N
3.4.3	Permanently connected equipment		Ň
3.4.4	Parts which remain energized	The state of	N
3.4.5	Switches in flexible cords		N
3.4.6	Single-phase equipment and d.c. equipment	NGU PT	N
3.4.7	Three-phase equipment		N
3.4.8	Switches as disconnect devices	The State of State of State	N

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EN 60	950-1	
Requirement – Test	Result – Remark	Verdict
Plugs as disconnect devices		N
Interconnected equipment	The second second second	N
Multiple power sources	c.C. c.	N
	Requirement – Test         Plugs as disconnect devices         Interconnected equipment	Plugs as disconnect devices       Interconnected equipment

3.5	Interconnection of equipment	The second se	Р
3.5.1	General requirements	The Contraction of the State of Contract	Р
3.5.2	Types of interconnection circuits	: SELV circuit only.	Р
3.5.3	ELV circuits as interconnection circuits	No ELV interconnections.	N 🐋
3.5.4	Data ports for additional equipment	USB port and earphone ports are transmission signal only. (See table 2.5)	ΎP

4	PHYSICAL REQUIREMENTS		Р
4.1	Stability	Hand-held equipment	N
N	Angle of 10°	The state of the s	N
	Test: force (N)	C _ N	N

4.2	Mechanical strength	5 5 5 5	Р
4.2.1	General	See below	Р
44-	Rack-mounted equipment.	correction of the second	N
4.2.2	Steady force test, 10 N		Ν
4.2.3	Steady force test, 30 N		Ν
4.2.4	Steady force test, 250 N	250N applied to outer enclosure. No energy or other hazards.	Р
4.2.5	Impact test	- GO	Ν
France Calorie	Fall test		Ν
~	Swing test	A THE REAL	Ν
4.2.6	Drop test; height(m):	1m; No damage of the enclosure, no energy hazards or damage to enclosure integration after the test.	Р
4.2.7	Stress relief test	73.4°C, 7hours, no hazard.	R. P
4.2.8	Cathode ray tubes	No cathode ray tube.	N
110-	Picture tube separately certified		N
4.2.9	High pressure lamps	No high pressure lamp	Ν
4.2.10	Wall or ceiling mounted equipment; force (N):	Hand-held equipment	Ν

4.3

**Design and construction** 

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
4.3.1	Edges and corners	Edges and corners are rounded.	P
4.3.2	Handles and manual controls; force (N):	5 Tradition 5 Tradition of 5	N
4.3.3	Adjustable controls	No such adjustable control.	Ν
4.3.4	Securing of parts	No loosening of parts is likely to occur.	Р
4.3.5	Connection of plugs and sockets	IEC60083 and IEC60320 connectors are not used in equipment.	Р
4.3.6	Direct plug-in equipment	Not direct plug-in equipment.	N
	Torque:		N
.C*2	Compliance with the relevant mains plug standard		N
4.3.7	Heating elements in earthed equipment	No heating elements.	Ν
4.3.8	Batteries		Р
instance of	-Overcharging of a rechargeable battery	(see appended table 4.3.8)	Р
NO	-Unintentional charging of a non-rechargeable battery	Rechargeable battery	N
· 环港	-Reverse charging of a rechargeable battery	Battery pack polarity cannot be reversed according to the design of enclosure and connecter	N
And and a start of the	-Excessive discharging rate for any battery	(see appended table 4.3.8)	P
4.3.9	Oil and grease	No Oil and grease.	Ν
4.3.10	Dust, powders, liquids and gases	Equipment in intended use not considered to be exposed to these.	Ν
4.3.11	Containers for liquids or gases	No containers for liquids or gases	N
4.3.12	Flammable liquids:	The equipment does not contain flammable liquid.	N
	Quantity of liquid (I)	- C * - C *	Ν
the Way Constant	Flash point (°C):		Ν
4.3.13	Radiation; type of radiation:	11 11 11 11 11	Р
4.3.13.1	General		P
4.3.13.2	Ionizing radiation	No ionizing radiation	N
- F.	Measured radiation (pA/kg)		
G	Measured high-voltage (kV)		
2	Measured focus voltage (kV):	BE THE S	
-01	CRT markings	- 13 - CO	
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	No ultraviolet radiation	N
-0	Part, property, retention after test, flammability classification		N
4.3.13.4	Human exposure to ultraviolet (UV) radiation:	- Fallen	N

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Clause	Requirement – Test	Result – Remark	Verdict
4.3.13.5	Lasers (including laser diodes) and LEDs	LEDs are considered as indicating lights.	P
4.3.13.5.1	Lasers (including laser diodes)	23 - 23 C	N
A. Th	Laser class:		
4.3.13.5.2	Light emitting diodes (LEDs)		Р
4.3.13.6	Other types:	The American	N

4.4	Protection against hazardous moving parts		N
4.4.1	General	No hazardous moving parts.	N
4.4.2	Protection in operator access areas		N
14 A	Household and home/office document/media shredders	C.B.S. SOC	NC
4.4.3	Protection in restricted access locations	CO FA	N
4.4.4	Protection in service access areas		N
4.4.5	Protection against moving fan blades	The Same The Strate	N
4.4.5.1	General		N
1	Not considered to cause pain or injury. a):	10- L	N
A same along	Is considered to cause pain, not injury. b):		N
	Considered to cause injury. c):	The second second	N
4.4.5.2	Protection for users	a G Marca C	N
anglance.	Use of symbol or warning:	10- <u>5</u> 0	N
4.4.5.3	Protection for service persons		N
0	Use of symbol or warning:	the Balling and Balling and	N

4.5	Thermal requirements		Р
4.5.1	General	A A	P
4.5.2	Temperature tests	(see appended table 4.5)	Р
	Normal load condition per Annex L		
4.5.3	Temperature limits for materials	(see appended table 4.5)	P
4.5.4	Touch temperature limits	(see appended table 4.5)	N P
4.5.5	Resistance to abnormal heat	No thermoplastic parts on which parts at hazardous voltage are directly mounted.	N

4.6	Openings in enclosures		4	Р 🛒
4.6.1	Top and side openings	A B E Free	The second	N

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	EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
<u>_</u>	Dimensions (mm)	the the second			
4.6.2	Bottoms of fire enclosures	The Transformer of The Alexander	N		
. 1	Construction of the bottom:	CC CC			
4.6.3	Doors or covers in fire enclosures	No doors and covers	Ν		
4.6.4	Openings in transportable equipment	The second second	Р		
4.6.4.1	Constructional design measures	Speaker which is used as an internal barrier covers the openings	CP		
Straingham -	Dimensions(mm):		Р		
4.6.4.2	Evaluation measures for larger openings		N		
4.6.4.3	Use of metallized parts	8 A 8 6 8	N		
4.6.5	Adhesives for constructional purposes	No adhesives for constructional purpose.	N		
	Conditioning temperature (°C), time (weeks):	C F			

4.7	Resistance to fire		Р
4.7.1	Reducing the risk of ignition and spread of flame	Use of plastic with the required flammability classes.	Р
Francisco Const	Method 1, selection and application of components wiring and materials	Method 1 used	P
	Method 2, application of all of simulated fault condition tests	CB COB	N
4.7.2	Conditions for a fire enclosure	See appended table 1.5.1	Р
4.7.2.1	Parts requiring a fire enclosure	Fire enclosure used	P
4.7.2.2	Parts not requiring a fire enclosure	the second se	N
4.7.3	Materials	C <sup>3</sup>	Р
4.7.3.1	General		Р
4.7.3.2	Materials for fire enclosures	See appended table 1.5.1	P
4.7.3.3	Materials for components and other parts outside fire enclosures	4 H.B. C. S. S. C.	N
4.7.3.4	Materials for components and other parts inside fire enclosures	Internal components except small parts are V-2 or better.	Р
4.7.3.5	Materials for air filter assemblies	No air filter assemblies	N
4.7.3.6	Materials used in high-voltage components	No high voltage components.	N

5	ELECTRICAL REQUIREMENTS AND SIMULATED	ABNORMAL C	ONDITIONS	Р
5.1	Touch current and protective conductor current	A TH	R TH	N
5.1.1	General	The Com	F. F. Manda	N

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
5.1.2	Equipment under test (EUT)	1 B B.	N
5.1.2.1	Single connection to an a.c. mains supply	The Frank and the State of the	N
5.1.2.2	Redundant multiple connections to an a.c. mains supply	CC CC	N
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply		N
5.1.3	Test circuit	The Barrier	N
5.1.4	Application of measuring instrument	Star Star	N
5.1.5	Test procedure		N
5.1.6	Test measurements		N
	Test voltage (V)	C -	N
The Part	Measured touch current (mA):	- China - Chin	N
instalion of Col	Max. allowed touch current (mA)		N
- 6	Measured protective conductor current (mA):	A B A B	N
	Max. allowed protective conductor current (mA) .:	The state of the second second	N
5.1.7	Equipment with touch current exceeding 3.5 mA :		N
5.1.7.1	General		
5.1.7.2	Simultaneous multiple connections to the supply	The Barrier of The	N
5.1.8	Touch currents to and from telecommunication networks and cable distribution systems and from telecommunication networks	GC B GC B	Ν
5.1.8.1	Limitation of the touch current to a telecommunication network and a cable distribution system	A BA TABA	N
	Test voltage (V)	- Citter CO	N
I They Comme	Measured touch current (mA):	10° 10°	N
Janon -	Max. allowed touch current (mA):		N
5.1.8.2	Summation of touch currents from telecommunication networks	- S. H. Barrow	
12	a)EUT with earthed telecommunication ports:		N
.C***	b)EUT whose telecommunication ports have no reference to protective earth		N

5.2	Electric strength		Ν
5.2.1	General	Class III equipment	N
5.2.2	Test procedure		N

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Clause	Requirement – Test	Result – Remark	Verdict		
5.3	Abnormal operating and fault conditions	187 187	P		
5.3.1	Protection against overload and abnormal operation	(see appended table 5.3)	Р		
5.3.2	Motors		N		
5.3.3	Transformers	No transformers	N		
5.3.4	Functional insulation:	See appended table 5.3. Complies with c)	Р		
5.3.5	Electromechanical components		N		
5.3.6	Audio amplifiers in ITE:		N		
5.3.7	Simulation of faults	Result see appended table 5.3.	St P		
5.3.8	Unattended equipment	En ation at	N		
5.3.9	Compliance criteria for abnormal operating and fault conditions	No flame emitted, no molten material emitted, no deformation of enclosure	P		
5.3.9.1	During the tests	No hazards.	P		
5.3.9.2	After the tests	No fire, no danger.	Р		

6	CONNECTION TO TELECOMMUNICATION NETWORKS	N
6.1	Protection of telecommunication network service persons, and users of equipment connected to the network, from hazards in the equipment	other N
6.1.1	Protection from hazardous voltages	N
6.1.2	Separation of the telecommunication network from earth	N
6.1.2.1	Requirements	N N
GU	Test voltage (V):	
	Current in the test circuit (mA):	- C <sup>3</sup> -
6.1.2.2	Exclusions:	N

6.2	Protection of equipment users from overvolt	ages on telecommunication networks	N
6.2.1	Separation requirements	States and the states	N
6.2.2	Electric strength test procedure		Ν
6.2.2.1	Impulse test		N
6.2.2.2	Steady-state test	No insulation breakdown	Ν
6.2.2.3	Compliance criteria	Compliance	Ν

6.3	Protection of the telecommunication wiring sys	tem from overheating	Ν
	Max. output current (A):	The Barrier of The Street	
	Current limiting method:	12 C3 \C	

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
		1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
7	CONNECTION TO CABLE DISTRIBUTION SYST	EMS	N
7.1	General	C .	N
7.2	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment		N
7.3	Protection of equipment users from overvoltages on the cable distribution system	Carling Noon	N N
7.4	Insulation between primary circuits and cable distribution systems		N N
7.4.1	General	a the state of the	N
7.4.2	Voltage surge test		Ν
7.4.3	Impulse test		N

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	EN 60950-7	1	
Clause	Requirement – Test	Result – Remark	Verdict
A	ANNEX A, TESTS FOR RESISTANCE TO HEAT	AND FIRE	N
A.1	Flammability test for fire enclosures of movable encoded exceeding 18 kg, and of stationary equipment (se		N
A.1.1	Samples		
Frank Change	Wall thickness (mm):		
A.1.2	Conditioning of samples; temperature (°C)::	the states	N
A.1.3	Mounting of samples	- G	N
A.1.4	Test flame (see IEC 60695-11-3)	Gr N N	N
- 87	Flame A, B, C or D		
A.1.5	Test procedure	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N
A.1.6	Compliance criteria		Ν
Filmation	Sample 1 burning time (s)		
and the second se	Sample 2 burning time (s):		
NC C	Sample 3 burning time (s):	The Barrier of The State	
A.2	Flammability test for fire enclosures of movable ed exceeding 18 kg, and for material and component 4.7.3.2 and 4.7.3.4)		N
A.2.1	Samples, material		
1	Wall thickness (mm):	1	
A.2.2	Conditioning of samples	- City CO	N
A.2.3	Mounting of samples		Ν
A.2.4	Test flame (see IEC 60695-11-4)		N
C C	Flame A, B or C	The Barrier The Street of	
A.2.5	Test procedure	C <sup>2</sup> CO	N
A.2.6	Compliance criteria		Ν
station .	Sample 1 burning time (s)		
1	Sample 2 burning time (s):	5 B 5 5 5	
	Sample 3 burning time (s):	5 CO .	
A.2.7	Alternative test acc. To IEC 60695-2-2, cl. 4 and 8		N
30	Sample 1 burning time (s):	AP AP A	
	Sample 2 burning time (s):	Sale -C	
R. The	Sample 3 burning time (s)		
A.3	Hot flaming oil test (see 4.6.2)		N
A.3.1	Mounting of samples	The The The	N
A.3.2	Test procedure		N

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Clause	Requirement – Test	Result – Remark	Verdict
A.3.3	Compliance criterion	18 18	N
		The Second Se	Franci Orden
В	ANNEX B, MOTOR TESTS UNDER ABNORMAL 5.3.2)	CONDITIONS (see 4.7.2.2 and	N
B.1	General requirements		N
	Position:	The second	
1	Manufacturer:	G BARNER COM	
Service .	Туре:		
~	Rated values:		
B.2	Test conditions	A A A A A A A A A A A A A A A A A A A	N
B.3	Maximum temperatures		N
B.4	Running overload test		N
B.5	Locked-rotor overload test		Ν
N.C	Test duration (days):	The Barrier Barrier	
	Electric strength test: test voltage (V):	A BERNE A	
B.6	Running overload test for d.c. motors in secondary circuits	ACC A	N
B.6.1	General	The state of the s	N
B.6.2	Test procedure	- 5 3 M	Ν
B.6.3	Alternative test procedure		Ν
B.6.4	Electric strength test; test voltage (V)		Ν
B.7	Locked-rotor overload test for d.c. motors in secon	ndary circuits	N
B.7.1	Test procedure	The second second	N
B.7.2	Alternative test procedure; test time (h):		Ν
B.7.3	Electric strength test		N 🔬
B.8	Test for motors with capacitors	The second secon	N
B.9	Test for three-phase motors	A THE COMPANY	N
B.10	Test for series motors		() N
5	Operating voltage (V):		

С	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)		N
AT THE	Position:	No transformers	-
and Company	Manufacturer:	NOT P	
	Туре:		
	Rated values:	The Same Contract of The Same	

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EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
7	Method of protection:	A BE BE		
C.1	Overload test	The second se	N	
C.2	Insulation		N	
T. T. Bar	Protection from displacement of windings::		N	

D	ANNEX D, MEASURING INSTRUMENTS FOR T	OUCH-CURRENT TESTS (see 5.1.4)	N
D.1	Measuring instrument		N
D.2	Alternative measuring instrument		N

E	ANNI	EX E, TEMPERA	<b>ATURE RISE OF</b>	A WINDING (see	e 1.4.13)	C *	N
The X	A	THE ME	The Banning	The second	CAL	S.C.	S
FF al Global	ANN	EX F, MEASURE	EMENT OF CLE	ARANCES AND	CREEPAGE DIST	ANCES	N

allestatice .	(see 2.10)		
2		The the the the the	- 12
G	ANNEX G, ALTERNATIVE METHOD FOR DETERMINING	G MINIMUM CLEARANCES	N
G.1	Clearances	CO M	Ν
G.1.1	General		N
G.1.2	Summary of the procedure for determining minimum clearances	S.S. H. B. S.S. H.	N
G.2	Determination of mains transient voltage (V):		Ν
G.2.1	AC mains supply		Ν
G.2.2	DC mains supply	A The Barnes	N
G.2.3	Unearthed DC mains supply:	5 F	N
G.2.4	Battery operation:	10° 100	Ν
G.3	Determination of telecommunication network transient voltage (V)		N
G.4	Determination of required withstand voltage (V) . :	The second second	Ν
G.4.1	Mains transients and internal repetitive peaks :	Resident of the second	N
G.4.2	Transients from telecommunication networks:	2	N
G.4.3	Combination of transients		N
G.4.4	Transients from cable distribution systems	The second se	N
G.5	Measurement of transient levels (V):	Carlo Co	N
Har and a star	a) Transients from a mains supply		Ν
	For an a.c. mains supply	THE REAL	N 🦂
2	For a d.c. mains supply	The Brance	N
	b) Transients from a telecommunication network		N

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	EN 60950-1	1	
Clause	Requirement – Test	Result – Remark	Verdict
G.6	Determination of minimum clearances:		N
		The Fred Conner of House Conner	Frank Care
Н	ANNEX H, IONIZING RADIATION (see 4.3.13)	CT CT CO	Ν
The second		NOT NO	
Jand	ANNEX J, TABLE OF ELECTROCHEMICAL PO	TENTIALS (see 2.6.5.6)	N
	Metal used:	The Barrier - B. Frederic	
F2 - 712	to The Statement of Statement		60
к	ANNEX K, THERMAL CONTROLS (see 1.5.3 an	d 5.3.7)	N 🔬
K.1	Making and breaking capacity		S N
K.2	Thermostat reliability; operating voltage (V):	The The P	N
K.3	Thermostat endurance test; operating voltage (V):	CC* NO	N
K.4	Temperature limiter endurance; operating voltage (V):		N
K.5	Thermal cut-out reliability	The state of the s	N
K.6	Stability of operation		N

ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.1)		
Typewriters	a Gran a Go	N
Adding machines and cash registers		N
Erasers		N 🖏
Pencil sharpeners	The Barrier	N
Duplicators and copy machines		N
Motor-operated files		N
Other business equipment		P
	BUSINES'S EQUIPMENT (see 1.2.2.1 and 4.5         Typewriters         Adding machines and cash registers         Erasers         Pencil sharpeners         Duplicators and copy machines         Motor-operated files	BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.1)         Typewriters         Adding machines and cash registers         Erasers         Pencil sharpeners         Duplicators and copy machines         Motor-operated files

М	ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)		
M.1	Introduction		N
M.2	Method A		N
M.3	Method B	The Address of the Ad	N
M.3.1	Ringing signal	C3-100	N
M.3.1.1	Frequency (Hz):	CO P	
M.3.1.2	Voltage (V):		
M.3.1.3	Cadence; time (s), voltage (V):	T. The amount of the second	
M.3.1.4	Single fault current (mA):	A CAN	

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EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
M.3.2	Tripping device and monitoring voltage:	1 B B.	N	
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage	Carling Carling Charles	N	
M.3.2.2	Tripping device		N	
M.3.2.3	Monitoring voltage (V):		N	

N	ANNEX N, IMPULSE TEST GENERATORS (see 2.10.3.4, 6.2.2.1, 7.3.2 and clause G.5)		GN
N.1	ITU-T impulse test generators	SC F	N
N.2	IEC 60065 impulse test generator		N

ANNEX P, NORMATIVE REFERENCES

Ρ

Q	ANNEX Q, Voltage dependent resistors (VDRS) (see 1.	5.9.1)	N
N.	-Preferred climatic categories:	Barrow Barrow	<b>N</b>
	-Maximum continuous voltage:		Ν
4	-Combination pulse current:		🧄 N
Ser.	Body of the VDR Test according to IEC 60695- 11-5	T. T. Barrison S. T. W.	N
E. The	Body of the VDR. Flammability class of material (min V-1):	Con North	N

R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES		N
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6)	NOC NOC	N
R.2	Reduced clearances (see 2.10.3)	The second secon	N

S	ANNEX S, PROCEDURE FOR IMPULSE TESTI	NG (see 6.2.2.3)	20	C N
S.1	Test equipment	-0		N
S.2	Test procedure		1	N
S.3	Examples of waveforms during impulse testing	5 B	TA PART	N

Terrandora de la composición d	ANNEX T, GUIDANCE ON PROTEC (see 1.1.2)	CTION AGAINST INGRESS OF	WATER	N
				2 %

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EN 60950-1					
Clause	Requirement – Test	Result – Remark	Verdict		
S S S S S S S S S S S S S S S S S S S	ANNEX U, INSULATED WINDING INSULATION (see 2.10.5.4)	WIRES FOR USE WITHOUT INTERLEAVED	N		

V	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)			
V.1	Introduction			Ν
V.2	TN power distribution systems	臣刑	- F Marco	Ν

W	ANNEX W, SUMMATION OF TOUCH CURRENTS			N
W.1	Touch current from electronic circuits		-11	N
W.1.2	Earthed circuits	the The	Barris and	N
W.2	Interconnection of several equipments	and a standard	C.O."	N
W.2.1	Isolation	- CO		N
W.2.2	Common return, isolated from earth		1	Ν
W.2.3	Common return, connected to protective earth	The Barbar	The Bernard	Ν

X	ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1)		N
X.1	Determination of maximum input current	THE T	N
X.2	Overload test procedure	- 3.3	N

Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)		Ν
Y.1	Test apparatus:	A A A	Ν
Y.2	Mounting of test samples	TA STATE	Ν
Y.3	Carbon-arc light-exposure apparatus::		Ν
Y.4	Xenon-arc light exposure apparatus::		Ν

Z	ANNEX Z, OVERVOLTAGE CATEGORIES(see2.10.3.2 and Clause G.2)			N		
	The Bennines	T. The Const	The states	~ \$ 3°	-0-	0

 BB
 ANNEX BB, CHANGES IN THE SECOND EDITION
 - 

 CC
 ANNEX CC. Evaluation of integrated circuit (IC) circuit limiters
 N

ANNEX AA, MANDREL TEST (see 2.10.5.8)

CC	ANNEX CC, Evaluation of integrated circuit (IC) circuit limiters		
CC.1	General	A B A B	N
CC.2	Test program 1:	The state of the s	N

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AA

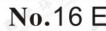


	EN 60950-1					
Clause	Requirement – Test	Result – Remark	Verdict			
CC.3	Test program 2	A BE AB	Ν			
CC.4	Test program 3:	The second of the second	Ν			
CC.5	Compliance:		Ν			

DD	ANNEX DD, requirements for the mounting means of rack-mounted equipment		Ν
DD.1	General	The the same - The same and	Ν
DD.2	Mechanical strength test, variable N:		Ν
DD.3	Mechanical strength test, 250N, including end stops		Ν
DD.4	Compliance:	E The A	Ν

EE	ANNEX EE, Household and home/office document/media shredders		Ν
EE.1	General		Ν
EE.2	Marking and instructions	The Barrier	Ν
	Use of markings or symbols:	8. C. S.	Ν
The start	Information of user instructions, maintenance and/or servicing instructions:	AGO IN	Ν
EE.3	Compliance:	TA BE	Ν
EE.4	Disconnection of power to hazardous moving parts	CG <sup>B</sup>	Ν
Contraction of the second	Use of markings or symbols:		Ν
EE.5	Protection against hazardous moving parts	-	Ν
0-	Test with test finger (figure 2A):	The Second and Frank	Ν
	Test with wedge probe (figure EE1 and EE2):	- Green col	Ν

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				EN 60950-1			
Clause	Requirem	ient – Test			Result – Re	mark	Verdict
- C	EN 60950	-1:2006/A11:2	009/A1:2010/	A12:2011 – CEN	IELEC COMM	ON MODIFICATION	S K
Contents (A2:2013)	Annex ZA	ollowing annex (normative) (normative) (informative)	Normative republications publications Special nation	ferences to inter with their corresp nal conditions NELEC code des	onding Europ		P
General		the —country to the followir		reference docun	nent (IEC 6095	50-1:2005)	P
	1.4.8	Note 2	1.5.1	Note 2 & 3	1.5.7.1	Note	A.
	1.5.8	Note 2	1.5.9.4	Note	1.7.2.1	Note 4, 5 & 6	E The Constant
	2.2.3	Note	2.2.4	Note	2.3.2	Note	6
	2.3.2.1	Note 2	2.3.4	Note 2	2.6.3.3	Note 2 & 3	20
	2.7.1	Note	2.10.3.2	Note 2	2.10.5.13	Note 3	1
	3.2.1.1	Note	3.2.4	Note 3	2.5.1	Note 2	C. 3. 3. "
	4.3.6	Note 1 & 2	4.7	Note 4	4.7.2.2	Note	9
	4.7.3.1	Note 2	5.1.7.1	Note 3 & 4	5.3.7	Note 1	
	6	Note 2 & 5	6.1.2.1	Note 2	6.1.2.2	Note	THE A
	6.2.2	Note	6.2.2.1	Note 2	6.2.2.2	Note	
	7.1	Note 3	7.2	Note	7.3	Note 1 & 2	50
	G.2.1	Note 2	Annex H	Note 2			
General A1:2010)		the "country" to the followir		eference docume	ent (IEC 60950	-1:2005/A1:2010)	P
	1.5.7.1	Note		6.1.2.1	Note 2		hospite of Car
10	6.2.2.1	Note 2	The states	EE.3	Note	4.0005/40.0040	
General A2:2013)	according 2.7.1 6.2.2.	to the followin Note * Note	ng list:	2.10.3.1 Modification rem	Note 2	-1:2005/A2:2013) ed.	
l.1.1 A1:2010)	Replace t NOTE 3 TI multimedia	he text of NOT	FE 3 by the fo of EN 60065 r e IEC Guide 11	llowing. nay also be used t	o meet safety re	SU N	S TA TA

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	EN 60950-1	
Clause	Requirement – Test Result – Remark	Verdict
- C	EN 60950-1:2006/A11:2009/A1:2010/A12:2011 - CENELEC COMMON MODIFICATIONS	5 . 8
1.3.Z1	Add the following subclause: 1.3.Z1 Exposure to excessive sound pressure The apparatus shall be so designed and constructed as to present no danger when	P
	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 measurement methodology and limit considerations - Part 2: Guidelines to associate sets with headphones coming from different manufacturers.	
(A12:2011)	In EN 60950-1:2006/A12:2011 Delete the addition of 1.3.Z1 / EN 60950-1:2006 Delete the definition 1.2.3.Z1 / EN 60950-1:2006 /A1:2010	P
1.5.1	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	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.	Р
I.7.2.1 A12.2011)	In EN 60950-1:2006/A12:2011 Delete NOTE Z1 and the addition for Portable Sound System. Add the following clause and annex to the existing standard and amendments.	Р
	Zx Protection against excessive sound pressure from personal music players	Р

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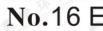


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	EN	N 60950-1	
Clause	Requirement – Test	Result – Remark	Verdict
-	EN 60950-1:2006/A11:2009/A1:2010/A12	:2011 - CENELEC COMMON MODIFICATIONS	A B and
	<ul> <li>Zx.1 General This sub-clause specifies requirements for from personal music players that are clos requirements for earphones and headphorplayers. </li> <li>A personal music player is a portable equi- is designed to allow the user to listen to</li></ul>	or protection against excessive sound pressure ely coupled to the ear. It also specifies ones intended for use with personal music ipment for personal use, that: o recorded or broadcast sound or video; and es that can be worn in or on or around the use. <i>y</i> -worn portable CD players, MP3 audio atures, PDA's or similar equipment.	Ρ
	<ul> <li>player or the listening device, but which is music player.</li> <li>The requirements do not apply to: hearing aid equipment and professio NOTE 3 Professional equipment is equip products sold through normal electronics</li> </ul>	valid for music or video mode only. ected to an external amplifier; or are not used. fier which is not part of the personal music is intended to play the music as a standalone	
A HA	processing of the sound signal) that a 2015. NOTE 4 This exemption has been allowe and it is expected that within a few years be extended to other technologies.	onal music players without any kind of digital are brought to the market before the end of d because this technology is falling out of use it will no longer exist. This exemption will not or intended for use by young children, the limits	Ρ

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Clause	Dequirement Test	EN 60950-1 Result – Remark	Verdic
Clause	Requirement – Test		
		A12:2011 – CENELEC COMMON MODIFICATI	
	<ul> <li>equipment provided as a package where the acoustic output LAeq,T "programme simulation noise" as</li> <li>a personal music player provided wind listening device, where the electric EN 50332-2, while playing the fixe EN 50332-1.</li> </ul>	upment that complies with the following: (personal music player with its listening device is $\leq$ 85 dBA measured while playing the fixed described in EN 50332-1; and ith an analogue electrical output socket for a cal output is $\leq$ 27 mV measured as described in ed "programme simulation noise" as described in output is used in this clause, the 30 s A-weighte	e), n
	equivalent sound pressure level LAeq	g,T is meant. See also Zx.5 and Annex Zx.	
	above; and	acoustic outputs exceeding those mentioned	E.
	automatically return to an output lev power is switched off; and	vel not exceeding those mentioned above, and vel not exceeding those mentioned above when	
	the equipment is operated with an a Any means used shall be acknowled operation which allows for an acoust acknowledgement does not need to	the user of the increased sound pressure when acoustic output exceeding those mentioned above dged by the user before activating a mode of stic output exceeding those mentioned above. The be repeated more than once every 20 h of	ve.
	always required.	visual or audible signals. Action from the user is accumulative listening time, independent how	The second
	<ul> <li>d) have a warning as specified in Zx.</li> <li>e) not exceed the following: <ol> <li>equipment provided as a package</li> <li>equiput shall be ≤ 100 dBA measured</li> </ol> </li> </ul>		c <sup>1</sup>
	listening device, the electrical output s	d with an analogue electrical output socket for a shall be ≤ 150 mV measured as described in EN amme simulation noise" described in EN 50332-	1
	duration of the song is lower than the noise, the warning does not need to b	pressure (long term LAeq,T) measured over the e average produced by the programme simulation be given as long as the average sound pressure dBA. In this case T becomes the duration of the	on of
	NOTE 4 Classical music typically has which is much lower than the average player is capable to analyse the song	an average sound pressure (long term LAeq,T) programme simulation noise. Therefore, if the and compare it with the programme simulation be given as long as the average sound pressure dBA.	1
	average music level of the song is on	he programme simulation noise to 85 dBA, but i ly 65 dBA, there is no need to give a warning or the average sound level of the song is not above	1 <sup>91</sup>
	the the state of the		

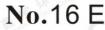
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	EN 609	50-1	
Clause	Requirement – Test	Result – Remark	Verdict
>0	EN 60950-1:2006/A11:2009/A1:2010/A12:2017	1 – CENELEC COMMON MODIFICATION	S
	<ul> <li><b>Zx.3 Warning</b> The warning shall be placed on the equipment manual and shall consist of the following: <ul> <li>the symbol of Figure 1 with a minimum the following wording, or similar:</li> </ul> </li> <li>"To prevent possible hearing damage, do not I periods."</li> </ul> Figure 1 – Warning lab	height of 5 mm; and isten at high volume levels for long el (IEC 60417-6044)	P
开环节	Alternatively, the entire warning may be given use, when the user is asked to acknowledge a	ctivation of the higher level.	
and all all all all all all all all all al	Zx.4 Requirements for listening devices (he Zx.4.1 Wired listening devices with analogu		N N
	With 94 dBA sound pressure output LAeq,T, th simulation noise" described in EN 50332-2 sha This requirement is applicable in any mode wh or passive), including any available setting (for ex NOTE The values of 94 dBA – 75 mV correspondence 150 mV.	all be $\ge$ 75 mV. here the headphones can operate (active kample built-in volume level control).	
GC <sup>3</sup>	<ul> <li>Zx.4.2 Wired listening devices with digital in With any playing device playing the fixed "prog 50332-1 (and respecting the digital interface sistandard exists that specifies the equivalent are of the listening device shall be ≤ 100 dBA.</li> <li>This requirement is applicable in any mode whincluding any available setting (for example bus sound feature like equalization, etc.).</li> <li>NOTE An example of a wired listening device</li> </ul>	pramme simulation noise" described in EN tandards, where a digital interface coustic level), the acoustic output LAeq,T here the headphones can operate, hilt-in volume level control, additional	N
	Zx.4.3 Wireless listening devices		N
	<ul> <li>In wireless mode:</li> <li>with any playing and transmitting device play described in EN 50332-1; and</li> <li>respecting the wireless transmission standar that specifies the equivalent acoustic level</li> <li>with volume and sound settings in the listeni level control, additional sound feature like of positions that maximize the measured a</li> </ul>	rds, where an air interface standard exists ; and ng device (for example built-in volume equalization, etc.) set to the combination	

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
(	EN 60950-1:2006/A11:2009/A1:2010/A12:2011 - CE	NELEC COMMON MODIFICATIONS	1 B
A Hard	<b>Zx.5 Measurement methods</b> Measurements shall be made in accordance with EN applicable. Unless stated otherwise, the time interval NOTE Test method for wireless equipment provided defined.	I T shall be 30 s.	P
2.7.1 30	Replace the subclause as follows: Basic requirements To protect against excessive current, short-circuits a CIRCUITS, protective devices shall be included either or as parts of the building installation, subject to the f a) except as detailed in b) and c), protective devices requirements of 5.3 shall be included as parts of the b) for components in series with the mains input to the cord, appliance coupler, r.f.i. filter and switch, short-of be provided by protective devices in the building inst	er as integral parts of the equipment following, a), b) and c): necessary to comply with the equipment; ne equipment such as the supply circuit and earth fault protection may	
	c) it is permitted for PLUGGABLE EQUIPMENT TYP CONNECTED EQUIPMENT, to rely on dedicated ov protection in the building installation, provided that th circuit breakers, is fully specified in the installation in If reliance is placed on protection in the building insta shall so state, except that for PLUGGABLE EQUIPM installation shall be regarded as providing protection wall socket outlet.	rercurrent and short-circuit ne means of protection, e.g. fuses or structions. allation, the installation instructions IENT TYPE A the building	
2.7.2	This subclause has been declared 'void'.	C C	N
3.2.3	Delete the NOTE in Table 3A, and delete also in this table the conduit sizes in parentheses.		N
3.2.5.1	Replace" $60245 \ \text{IEC} 53"$ by " $H05 \ \text{RR-F}"$ ; " $60227 \ \text{IEC} 52"$ by " $H03 \ \text{VV-F}$ or " $60227 \ \text{IEC} 53"$ by " $H05 \ \text{VV-F}$ orIn Table 3B, replace the first four lines by the followin Up to and including 6   $0,75^{\text{ a}}$   $0,75^{\text{ a}}$   Over 6 up to and including 10   $(0,75)^{\text{ b}}$ $1,0$   $0 \ \text{Ver}$ 10 up to and including 16   $(1,0)^{\text{ c}}$ $1,5$   In the conditions applicable to Table 3B delete the w	T. B. B. M. C. B. T. M. B.	N
	condition <sup>a)</sup> . In NOTE 1, applicable to Table 3B, delete the second	d sentence.	
3.3.4	In Table 3D, delete the fourth line: conductor sizes for 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		N

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	EN 609	50-1	
Clause	Requirement – Test	Result – Remark	Verdict
6	EN 60950-1:2006/A11:2009/A1:2010/A12:201	1 - CENELEC COMMON MODIFICATIONS	人物
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 th public to electromagnetic fields 0 Hz to 300 GH 2006/25/EC: Directive on the minimum health exposure of workers to risks arising from phys	Hz, and and safety requirements regarding the	N
	Standards taking into account mentioned Reco demonstrate compliance with the applicable E		<b>S</b> CN
Annex H	Replace the last paragraph of this annex by: At any point 10 cm from the surface of the OP shall not exceed 1 µSv/h (0,1 mR/h) (see NOT level. Replace the notes as follows: NOTE These values appear in Directive 96/29 Delete NOTE 2.	E). Account is taken of the background	
Bibliograph y	Additional EN standards.	E. F. Barrison B. F. Barrison G	C <sup>all</sup> .

ZA

#### NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR **CORRESPONDING EUROPEAN PUBLICATIONS**

		EN 60950-1				
Clause	Clause Requirement – Test Result – Remark					
C.*	ZB ANNEX (normative) S	PECIAL NATIONAL CONDITIONS (EN)	~ 臣 下			
1.2.4.1		appliances (see 3.2.1.1) may be provided with a ons when inserted into Danish socket-outlets.	N			
1.2.13.14	<sup>14</sup> In <b>Norway</b> and <b>Sweden</b> , for requirements see 1.7.2.1 and 7.3 of this annex.					
1.5.7.1						
1.5.8	1.5.8 In <b>Norway</b> , 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).					
1.5.9.4	In Finland, Norway and Sweden, the equipment as defined in 6.1.2.2 of thi	e third dashed sentence is applicable only to s annex.	N			

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EN 60950-1					
Clause	Requirement – Test Result – Remark	Verdict			
-0	ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)	5 B			
1.7.2.1	In <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> , 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.				
	The marking text in the applicable countries shall be as follows:				
	In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"				
	In Norway: "Apparatet må tilkoples jordet stikkontakt"				
	In Sweden: "Apparaten skall anslutas till jordat uttag"				
	In <b>Norway</b> and <b>Sweden</b> , the screen of the cable distribution system is normally not earthed at the entrance of the building and there is normally no 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.				
	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.				
	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:				
	"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 distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a cable distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)."				
SC.	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			
	Translation to Norwegian (the Swedish text will also be accepted in Norway): "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 medfőra risk főr brand. Főr 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 <b>Denmark</b> , 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	N			
	mains socket-outlet. The marking text in <b>Denmark</b> shall be as follows: In <b>Denmark</b> : "Apparatets stikprop				

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	EN 60950-1				
Clause	Requirement – Test Result – Remark	Verdict			
~0	ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)	The Base			
1.7.5	In <b>Denmark</b> , 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. For <b>CLASS II EQUIPMENT</b> the socket outlet shall be in accordance with Standard Sheet DKA 1-4a.	N			
1.7.5 (A2:2013)	In <b>Denmark</b> , socket-outlets for providing power to other equipment shall be in accordance with the DS 60884-2-D1:2011. 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 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. 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 socket outlets shall be in compliance with by DS 60884-2-D1 Standard Sheet DKA 1-3a or DKA 1-3b. Justification the Heavy Current Regulations, 6c				
2.2.4	In <b>Norway</b> , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.				
2.3.2	In <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> there are additional requirements for the insulation. See 6.1.2.1 and 6.1.2.2 of this annex.				
2.3.4	In <b>Norway</b> , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.				
2.6.3.3	In the <b>United Kingdom</b> , the current rating of the circuit shall be taken as 13 A, not 16 A.				
2.7.1	In the <b>United Kingdom</b> , to protect against excessive currents and short-circuits in the PRIMARY CIRCUIT of DIRECT PLUG-IN EQUIPMENT, tests according to 5.3 shall be 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 that the requirements of 5.3 are met.	N			
2.10.5.13	In <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> , there are additional requirements for the insulation, see 6.1.2.1 and 6.1.2.2 of this annex.	N			
3.2.1.1	In <b>Switzerland</b> , 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: SEV 6532-2.1991 Plug Type 15 3P+N+PE 250/400 V, 10 A 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: SEV 5932-2.1998: Plug Type 25 , 3L+N+PE 230/400 V, 16 A				
	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				

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	EN 60950-1			
Clause	Requirement – Test Re	sult – Remark	Verdict	
<u>_</u>	ZB ANNEX (normative) SPECIAL NATI	ONAL CONDITIONS (EN)	The Base	
3.2.1.1	In <b>Denmark</b> , 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.			
	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 poly-phase equipment and single-phase equipme exceeding 13 A is provided with a supply cord with accordance with the Heavy Current Regulations, S	a plug, this plug shall be in		
3.2.1.1	In <b>Spain</b> , supply cords of single-phase equipment exceeding 10 A shall be provided with a plug accord		The N	
	Supply cords of single-phase equipment having a r shall be provided with a plug according to UNE-EN			
	CLASS I EQUIPMENT provided with socket-outlets intended to be used in locations where protection a according to the wiring rules, shall be provided with UNE 20315:1994.	gainst indirect contact is required		
1	If poly-phase equipment is provided with a supply of accordance with UNE-EN 60309-2.	ord with a plug, this plug shall be in		
3.2.1.1	2.1.1 In the <b>United Kingdom</b> , 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.			
Bernard - St	NOTE 'Standard plug' is defined in SI 1768:1994 a plug conforming to BS 1363 or an approved convert		in T	
3.2.1.1	In <b>Ireland</b> , apparatus which is fitted with a flexible of connected to a mains socket conforming to I.S. 41 <sup>2</sup> cord and plug, shall be fitted with a 13 A plug in act 525:1997 - National Standards Authority of Ireland Conversion Adaptors for Domestic Use) Regulation	by means of that flexible cable or cordance with Statutory Instrument (section 28) (13 A Plugs and	N	
3.2.4	In Switzerland, for requirements see 3.2.1.1 of this	annex.	N	
3.2.5.1	In the <b>United Kingdom</b> , a power supply cord with for equipment with a rated current over 10 A and u		N	
3.3.4	In the <b>United Kingdom</b> , 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:			
4.3.6	<ul> <li>1,25 mm<sup>2</sup> to 1,5 mm<sup>2</sup> nominal cross-sectional are</li> <li>In the United Kingdom, the torque test is performed with BS 1363 part 1:1995, including Amendment 1: the plug part of DIRECT PLUG-IN EQUIPMENT sh 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16 a 12.17 is performed at not less than 125 °C. Where an Insulated Shutter Opening Device (ISOD), the realso apply.</li> </ul>	ed using a socket outlet complying 1997 and Amendment 2:2003 and all be assessed to BS 1363: Part 1, nd 12.17, except that the test of the metal earth pin is replaced by	N C	

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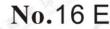
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Jause	I Reduirement – Lest	Clause Requirement – Test Result – Remark Verdict					
			Verdict				
		AL NATIONAL CONDITIONS (EN)	N				
I.3.6	In <b>Ireland</b> , DIRECT PLUG-IN EQUIPMENT is known as plug similar devices. Such devices shall comply with Statutory Instrument 526:1997 - National Standards Authority of Ireland (Section 28) (Electrical plugs, plug similar devices and sockets for domestic use) Regulations, 1997.						
5.1.7.1	In <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> TOUCH 3,5 mA r.m.s. are permitted only for the follo • STATIONARY PLUGGABLE EQUIPMEN	T TYPE A that ICTED ACCESS LOCATION where example, in a					
	SERVICE PERSON; • STATIONARY PLUGGABLE EQUIPMEN • STATIONARY PERMANENTLY CONNEC	T TYPE B;					
5.1.2.1 A1:2010)	In Finland, Norway and Sweden, add the paragraph of the compliance clause: If this insulation is solid, including insulation least consist of either - two layers of thin sheet material, each of vibelow, or	following text between the first and second	C N				
	<ul> <li>one layer having a distance through insula the electric strength test below.</li> <li>Alternatively for components, there is no dis the insulation consisting of an insulating con that CLEARANCES and CREEPAGE DIST passes the electric strength test in accordant in addition</li> </ul>	stance through insulation requirements for mpound completely filling the casing, so ANCES do not exist, if the component					
	<ul> <li>passes the tests and inspection criteria of kV multiplied by 1,6 (the electric strength te kV), and</li> <li>is subject to ROUTINE TESTING for elect test voltage of 1,5 kV.</li> </ul>	st of 2.10.10 shall be performed using 1,5					
	It is permitted to bridge this insulation with a It is permitted to bridge this insulation with a 14:2005, subclass Y2.	a capacitor complying with EN 60384-					
	A capacitor classified Y3 according to EN 6 under the following conditions: - the insulation requirements are satisfied to defined by EN 60384-14, which in addition	by having a capacitor classified Y3 as to the Y3 testing, is tested with an impulse					
	60384-14:	6.2.2.1; In all the test specimens as described in EN ed before the endurance test in EN 60384-					

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		EN 60950-1	
Clause	Requirement – Test	Result – Remark	Verdict
~	ZB ANNEX (normative	e) SPECIAL NATIONAL CONDITIONS (EN)	The Barrows
6.1.2.2	CONNECTED EQUIPMENT, PLU intended to be used in a RESTRI- bonding has been applied, e.g. in provision for a permanently conne	I, the exclusions are applicable for PERMANENTLY JGGABLE EQUIPMENT TYPE B and equipment CTED ACCESS LOCATION where equipotential a telecommunication centre, and which has ected PROTECTIVE EARTHING CONDUCTOR and e installation of that conductor by a SERVICE	N
7.2	annex.	, for requirements see 6.1.2.1 and 6.1.2.2 of this N NETWORK in 6.1.2 being replaced by the term 1.	<b>GON</b>
7.3	In Norway and Sweden, for requ	irements see 1.2.13.14 and 1.7.2.1 of this annex.	N
7.3	In Norway, for installation condition	ons see EN 60728-11:2005.	N

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1.5.1	TABLE: list of critical components			Р
Object/part no.	Manufacturer/ trademark	Type/model	Technical data	Mark(s) of conformity
Travel Charger	Shenzhen Eagletron Electronic Co., Ltd.	VNA-0000001	Input: 100-240V~ 50/60Hz, 0.3A output: 5.0V, 2.0A (class II, LPS, 40°C)	CE AGC09377170 502ES02
Li-Polymer Battery	Shenzhen Shirui Battery Co., Ltd.	357095	3.7V, 2800mAh Max. charge current: 1400mA Max. discharge current: 1400mA	IEC 62133 TUVRheinland Report No.: 17036652001
Panel	STARRY ELECTRONIC TECHNOLOGY (SHENZHEN) CO., LTD	20810700150 520-03	7.0 inch, DC 3.3V	Evaluated in this report
Speaker	Interchangeable	Interchangeab le	8ohm, 0.5W	Evaluated in this report
РСВ	Interchangeable	Interchangeab le	V-0, 130°C	UL ZPMV2
Enclosure	SILVER AGE ENGINEERING PLASTICS (DONGGUAN) CO LTD	2320	Min. 0.8mm, V-0, 80°C	UL E225348
Note(s):	The the second second	- C.3	~C }	0-

1.6.2	TABLE: e	electrical data (in	n normal co	nditions)		The P
U (V)	I (A)	I rated (A)	P (W)	Fuse #	I fuse (A)	Condition/status
3.7	0.84	- 5	3.11	1	200	Normal operation: by battery.
5.0	1.40	1.5	7.00			Normal operation: by Travel Charger

Note(s): when supplied by Travel Charger, the EUT was equipped with fully discharge battery.

2.1.1.5c)1)	TABLE: m	ax. V, A, VA test	- 60	N 1	Y	N
Voltage (rated	d) (V)	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (	max.) (VA)
		-	10 TH	The Banks	to mal Global	
Note(s):	The the man	- The Conner	The States			Go

2.1.1.5c)2)	TABLE: stored energy		K P	N
Capacitance	: C (μF)	Voltage U (V)		Energy E (J)
The second se	The Frank of Frank		1	-
Note(s):	C.ª C.G.	No No		The second second

- 2.2
- TABLE: evaluation of voltage limiting components in SELV circuits

Ν

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	max. voltage (V)	(normal operation)	Voltage Limiting
Component (measured between)	Vpeak	Vd.c.	Components
		B	- 5.
Fault test performed on voltage limiting components	Voltage measured	d (V) in SELV circuits	s (V peak or V d.c.)
A The Training of The State	G	- V	
Note(s):			in the

TABLE: limited power source measurement			C.C.	Р
Measured Uoc (V) with all load circuits disconnected:		A)	VA	
		Limit	Meas.	Limit
ormal condition	0	8	0	100
condition, R146, S-C	0	8	0	100
condition, R139, S-C	0	8	0	100
earphone jack			the second	H.
	with all load circuits ormal condition condition, R146, S-C condition, R139, S-C	with all load circuitsIsc (Meas.ormal condition0condition, R146, S-C0condition, R139, S-C0	Isc (A)with all load circuitsIsc (A)Meas.Limitormal condition08condition, R146, S-C08condition, R139, S-C08	Isc (A)VAMeas.LimitMeas.ormal condition080condition, R146, S-C080condition, R139, S-C080

2.10.2	TABLE: Working	voltage measurement	-CIP COP	N
Location		RMS voltage (V)	Peak voltage (V)	Comments
C. Barris	-00	- V		The the second
Note(s):		A REAL ST	K Barris	C

2.10.3 and Z.10.4 TABLE: clearance a	nd creepage o	distance mea	surements		ALL ALL	N
Clearance cl and creepage distance dcr at/of:	U p (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required dcr (mm)	dcr (mm)
The Barnet - The The Contract	-	ΞG		<u>G</u>	0	
Note(s):	60	2				E.

2.10.5	TABLE: distance through insulation	on measurements	The second	GO .	G N
Distance th	nrough insulation di at/of:	U r.m.s. (V)	Test voltage (V)	Required di (mm)	di (mm)
Note(s):	A. A.	The State		- 60	J.

4.3.8	TABLE: Batteries	AL AL	Р
The tests not availa	of 4.3.8 are applicable only when appropriate battery data is ble	ARE STREET	СР

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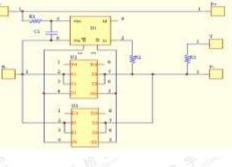
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Is it possible to	install the b	attery in a r	everse pola	rity position	?	10 C	ed connecto attery pack		Ν
	Non-rec	chargeable	batteries			Rechargeat	le batteries	3	
	Disch	Discharging		Charging		Disch	arging	Reverse	Charging
雨 形	Meas. current	Manuf. Specs.	tional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf.S pecs.	Meas. current	Manuf. Specs.
Max. current during normal condition	NGC	RG		870mA	1250mA	840mA	1250mA	F-28	- 53
Max. current during fault condition (Charging: Main board U82 Pin31-33 short; Discharging: Battery B- and P- short)			A CO	1060mA	1250mA	850mA	1250mA	N N	A C
Test results:		6		line in the		A B P	The N	a support	Verdict
- Chemical leak	s	一位了		K B P	· 李	No	B. Starter	~0	P
- Explosion of th	ne battery	Frank Conne Con	- 3.3	~ ~ (	SC.	No			Р
- Emission of fla	ame or expu	Ision of mo	lten metal			No	A. P.	~ 杨	P
- Electric streng	th tests of e	equipment a	after complet	ion of tests	E.P.	4 %	Contraction	Frank Contra	N
Note(s):	A. The	- Fr	The Comment	E. F. S	-	5	00		No

4.3.8 TABLE: Batteries	Р
Battery category	Li-Polymer Battery
Manufacturer	: Shenzhen Shirui Battery Co., Ltd.
Type/model	: SR3070110P
Voltage, Capacity	3.7VDC, 2800mAh
Circuit protection diagram	: See below of details.



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	the second of th
MARKINGS AND INSTRUCTIONS (1.7.13)	
Location of replaceable battery	Internal li-polymer battery cannot be replaced by user.
Language(s):	- THE THE THE
Close to the battery:	···
In the servicing instructions:	
In the operating instructions:	
Note(s):	The second secon

4.5	TABLE: maximum te	emperature	s	n d Gebal	B. Jane	-0		Р
C.ª	Test voltage (V)	N.		a):5.0VDC b): Battery	-			
					T (	(°C)		allowed
maximum temperature T of part/at:			a)			b)		
Panel	- Ci <sup>3</sup> co	54.2		5	52.1			
PCB near USB			67.8		60.1		130	
PCB near U1			78.5		C.*/	74.3	130	
Battery	Barris Barris	-	E serende	52.7		5 5	51.6	Ref.
Lead wire	of battery	S		56.7		56.2		80
Internal er	nclosure near main boa	rd	10	63.4		61.2		80
External e	enclosure	THE THE	Dia.	56	56.3 55.4		55.4	75
Ambient	F Jane Com	Province of the	~.C*	40	.0	40.0		<u> </u>
Tempe	erature T of winding	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	R <sub>2</sub> (Ω)	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation Class
			56-12		and Control	- 5		thereased

A100-						154	- Martin
4.5.5	TABLE: ball pressure	e test of thermoplastic pa	arts	4	HE THE	The Street	Ν
	allowed impression di	iameter (mm)	:	黄 子 。	C	The state	
Part				Test temp	erature(°C)		n diameter nm)
9				西望	- 5 -	6	the states
Note(s):		A BANK	THE W	pal Col.	Frank Contra	C.C.	10

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.7	TABLE: Resistance to fire	- Citer	C.B.	N	Р
Part	Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence
÷		///	a The	The there	F Kant

5.1	TABLE: touch current measurement			N
Measure	d between:	Measured(mA)	Limit(mA)	Comments/conditions
板型		Frank A		- CO
Note(s):-		~GU		

5.2	TABLE: electric s	trength tests	and impulse tests	The Frank	-G	N
Test vol	tage applied between:			Test voltage (	(V) Bre	eakdown
A Barrist	C 3.200	6.**	S		10	-
Note(s):	<u> </u>			TAR	The Western	- Barris

5.3	TAE	BLE: fault condition	tests			S F	Р
The second	amb	pient temperature (	°C)		:	24.0	
1	rated markings of power supply					The state of the s	
Component no la Fault		Test voltage (V)	Test time	Fuse no.	Result		
Battery	transfor de	Output,S-C	S.	10min		Unit shutdown immediately. No hazards.	6
Battery		Overcharge, B- and P-, S-C	5.0	7h	The Man	No hazards. Battery enclosure: 37.6°C	
Battery	1913	Discharge, B- and P-, S-C	C.S.	2h		No hazards. Battery enclosure: 36.3°C	
U82 Pin31	-33	S-C	5.0	7h		No damage and hazards. Battery enclosure: 38.5°C	A n <sup>ot</sup>
D28		S-C	5.0	10min		Unit shutdown immediately. No hazards.	. 6
R29	E Th	S-C	5.0	10min	- C-3-2	No damage and hazards.	
Speaker S-C		5.0	10min	9	Speaker didn't work, no haza	ards.	

Note: --

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#### Attachment A Photos of product



Fig.1 - overview



Fig.2 – overview

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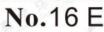


Fig.3 - overview



Fig.4 -view of charge port

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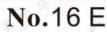


Fig.5 - partview



Fig.6 - partview

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Fig.7 - partview

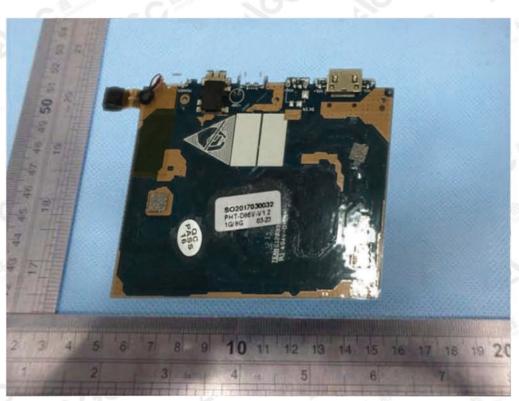
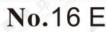


Fig.8 - partview

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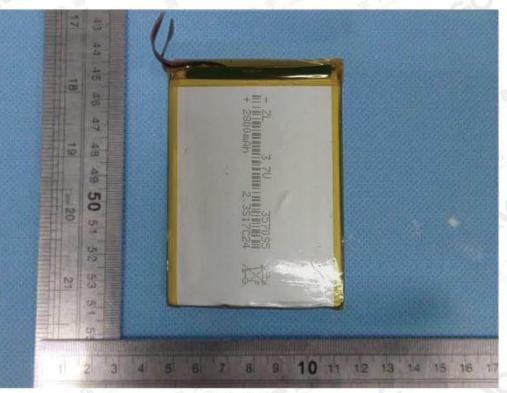
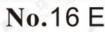


Fig.9 - battery



Fig.10 - battery

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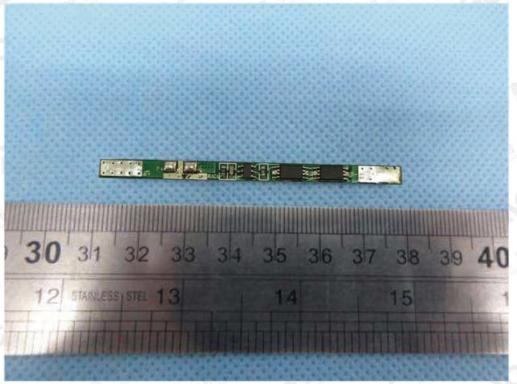


Fig.11 – top circuit of battery

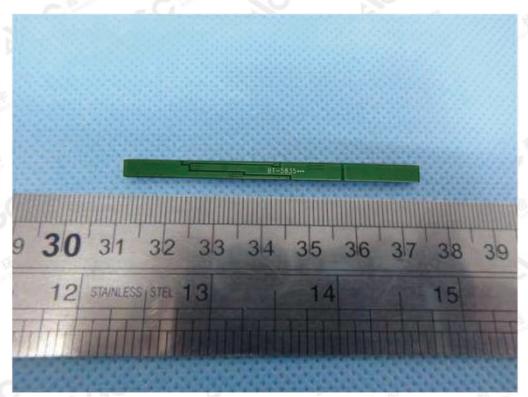
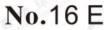


Fig.12 – bottom circuit of battery

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