



Confidential Report

Client: Tekelek	Test of: TEK 880
Unit 118 Shannon Free Zone Shannon Co. Clare V14 XY18 Ireland	Tested to: IEC 61010-1: 2010/A1:2016 Safety requirements for electrical equipment for measurement, control, and laboratory use part 1: General requirements
Attention: Mr. Seamus Normoyle	

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REPORT REF: 23S10578-1

TESTED BY: N. Duignan

DATE RECEIVED: 10 July 2023

REPORT BY: N. Duignan

ISSUE DATE: 03 August 2023

APPROVED SIGNATORY: J McAuley

JOB TITLE: Technical Manager

SIGNATURE:

John McAuley

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

TEST REPORT
IEC 61010-1
Safety requirements for electrical equipment for measurement,
control, and laboratory use
Part 1: General requirements

Report Number.....: **23S10578-1**
Date of issue.....: 03 August 2023
Total number of pages 86

Applicant's name: Tekelek
Address.....: Unit 118, Shannon Free Zone, Shannon, Co. Clare, V14 XY18,
Ireland

Test specification:

Standard.....: IEC 61010-1:2010/A1:2016 (Third Edition)
Test procedure: IEC 61010-1:2010/A1:2016 (Third Edition)
Non-standard test method.....: N/A

Test Report Form No.: IEC61010_1G/A1
Test Report Form(s) Originator: CEI Ltd.
Master TRF.....: 0-07

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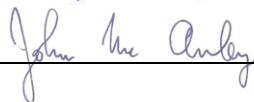
This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

Test item description..... : Substation and Overhead Line power measurement

Trade Mark.....:



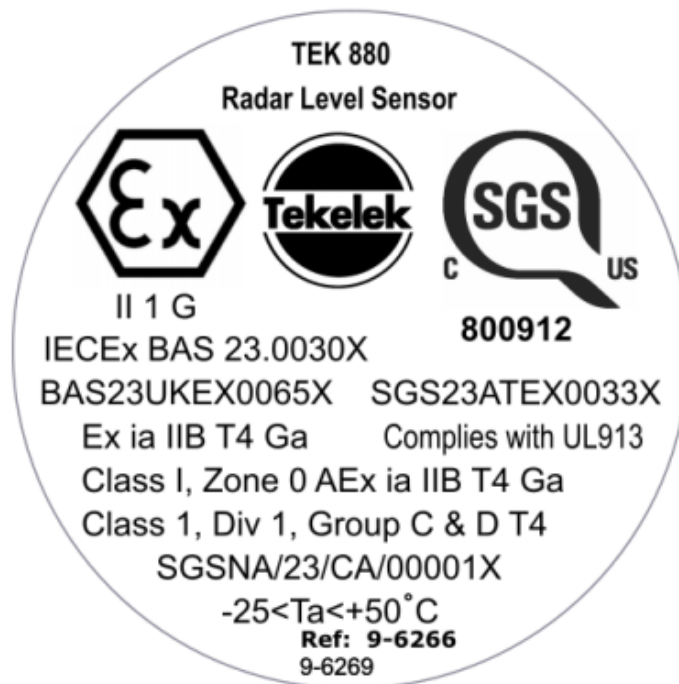
Manufacturer: Tekelek
Model/Type reference: TEK 880
Ratings.....: 3.6 Vdc

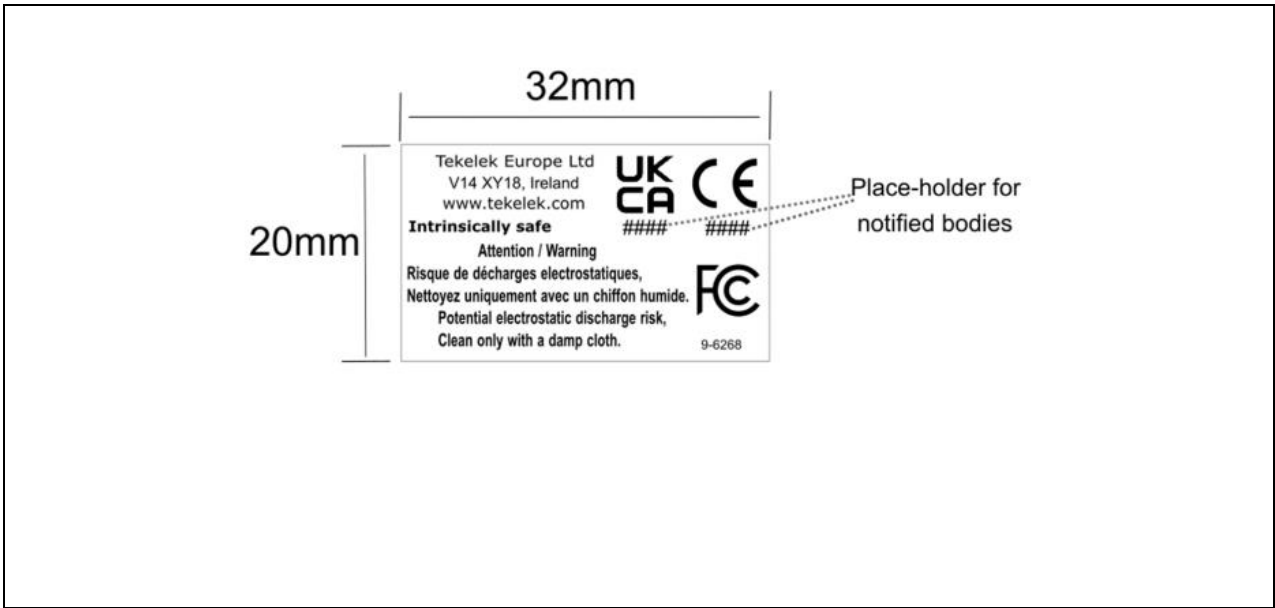
Testing procedure and testing location:		
<input type="checkbox"/>	Testing Laboratory:	
Testing location/ address :		
<input type="checkbox"/>	Associated Laboratory:	
Testing location/ address : Compliance Engineering Ireland. Clonross, Dunshaughlin , Co Meath. Ireland		
Tested by (name + signature).....:		Nigel Duignan 
Approved by (name + signature) ..:		John McAuley 
<input type="checkbox"/>	Testing procedure: TMP	
Testing location/ address :		
Tested by (name + signature).....:		
Approved by (name + signature) ..:		
<input type="checkbox"/>	Testing procedure: WMT	
Testing location/ address :		
Tested by (name + signature).....:		
Witnessed by (name + signature) ..:		
Approved by (name + signature) ..:		
<input type="checkbox"/>	Testing procedure: SMT	
Testing location/ address :		
Tested by (name + signature).....:		
Approved by (name + signature) ..:		
Supervised by (name + signature):		
<input type="checkbox"/>	Testing procedure: RMT	
Testing location/ address :		
Tested by (name + signature).....:		
Approved by (name + signature) ..:		
Supervised by (name + signature):		

List of Attachments (including a total number of pages in each attachment - Table 1):		
Document No.	Documents included / attached to this report (description)	Page Numbers
<p>Summary of testing:</p> <p>The TEK 880 complied with the requirements of IEC 61010-1:2010/A1:2016</p>		
<p>Summary of compliance with National Differences</p> <p>List of countries addressed:</p> <p>EN 61010-1:2010/A1:2019</p> <p><input checked="" type="checkbox"/> The product fulfils the requirements of IEC 61010-1:2010/A1:2016</p>		

Copy of marking plate

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





Test item particulars:	
Type of item	: Test
Description of equipment function	: Oil Tank Level Sensor
Connection to MAINS supply	: N/A
Overvoltage category	: IV
POLLUTION DEGREE	: PD2
Means of protection	: Enclosure
Environmental conditions	: -25-50 °C, 100% RH
For use in wet locations	: No
Equipment mobility	: Fixed
Operating conditions	: Continuous
Overall size of equipment (W x D x H)	: 62 mm H, 103 mm diameter
Mass of equipment (kg)	: 0.2 kg
.....	:
;	:
Marked degree of protection to IEC 60529	: IP 67
Possible test case verdicts:	
- Test case does not apply to the test object	: N/A
- Test object does meet the requirement	: P (Pass)
- Test object does not meet the requirement	: F (Fail)
Testing:	
Date of receipt of test item	: 10 July 2023
Date (s) of performance of tests	: 10 July 2023 – 24 July 2023
General remarks:	
<p>The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory. "(see ENCLOSURE #)" refers to additional information appended to the report. "(see Form A.xx)" refers to a table appended to the report. Bottom lines for measurement tables Form A.xx are optional if used as record.</p> <p>Throughout this report a <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.</p>	
Manufacturer's Declaration per sub-clause 6.2.5 of IEC60068-2-1:	
<p>The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided</p> <p>: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not applicable</p>	
When differences exist; they shall be identified in the General product information section.	
General product information:	
<p>This kit is intended for use in veterinary practices and laboratory environments. It is not intended for use in domestic environments. This kit is intended to be used by veterinary staff and farmers to run parasite testing on animal faecal matter.</p>	
Equipment subject to the following qualifications:	

1. The equipment has been assessed as a component for the applicable requirements of the standards listed above and national deviations described in the report attachment. End-use equipment shall be evaluated for compliance with applicable local and national requirements.
2. The equipment has been investigated for continuous operation
3. EMC/EMI not investigated in this report.
4. All warnings and safety-related documentation shall be in a language acceptable to the authority having jurisdiction where the equipment is to be installed.
5. Equipment not evaluated for use in hazardous (classified) environments.
6. Equipment not evaluated for use with flammable liquids or materials.
7. A suitable mains disconnection means shall be provided in the end-system.

IEC 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
4.4	Testing in SINGLE FAULT CONDITIONS		P
4.4.1	Fault tests	(see Form A.1)	P
4.4.2	Application of SINGLE FAULT CONDITIONS		P
4.4.2.1	SINGLE FAULT CONDITIONS not covered by 4.4.2.2 to 4.4.2.14	(see Form A.1)	—
4.4.2.2	PROTECTIVE IMPEDANCE		N/A
4.4.2.3	Protective conductor	(see Form A.6)	N/A
4.4.2.4	Equipment or parts for short-term or intermittent operation		P
4.4.2.5	Motors	See Form A.1	N/A
	– stopped while fully energized		N/A
	– prevented from starting		N/A
	– one phase interrupted (multi-phase)		N/A
4.4.2.6	Capacitors		N/A
4.4.2.7	MAINS transformers		N/A
4.4.2.7.2	Short circuit		N/A
4.4.2.7.3	Overload		N/A
4.4.2.8	Outputs		N/A
4.4.2.9	Equipment for more than one supply		N/A
4.4.2.10	Cooling	(see Form A.21A)	N/A
	– air holes closed		N/A
	– fans stopped		N/A
	– coolant stopped		N/A
	– loss of cooling liquid		N/A
4.4.2.11	Heating devices		N/A
	– timer overridden		N/A
	– temperature controller overridden		N/A
4.4.2.12	Insulation between circuits and parts		N/A
4.4.2.13	Interlocks		N/A
4.4.2.14	Voltage selectors		N/A
4.4.3	Duration of tests	(see Form A.1)	—
4.4.4	Conformity after application of fault conditions	(see Forms A.1; A.6, A.19)	P
5	MARKING AND DOCUMENTATION		P
5.1.1	Required equipment markings		P
	- Visible from the exterior; or		P
	- Visible after removing cover or opening door		N/A

IEC 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	- Visible after removal from a rack or panel	Not rack or panel mounted	N/A
	Not put on parts which can be removed by an operator		N/A
	Letter symbols (IEC 60027) used		P
	Graphic symbols (IEC 61010-1: Table 1) used		P
5.1.2	Identification		—
	Equipment is identified by:		P
	a) Manufacturer's or supplier's name or trademark	Tekelek	P
	b) Model number, name or other means	TEK 880	P
	Manufacturing location identified		N/A
5.1.3	MAINS supply	Not mains powered	N/A
	Equipment is marked as follows:		N/A
	a) Nature of supply:		—
	1) a.c. RATED MAINS frequency or range of frequencies		N/A
	2) d.c. with symbol 1		N/A
	b) RATED supply voltage(s) or range		N/A
	c) Max. RATED power (W or VA) or input current ... :		N/A
	The marked value not less than 90 % of the maximum value	(see Form A.2)	N/A
	If more than one voltage range:		—
	Separate values marked; or		N/A
	Values differ by less than 20 %	(see Form A.2)	N/A
	d) OPERATOR-set for different RATED supply voltages:	No operator setting of supply voltage	—
	Indicates the equipment set voltage		N/A
	Portable equipment indication is visible from the exterior		N/A
	Changing the setting changes the indication		N/A
	e) Accessory MAINS socket-outlets accepting standard MAINS plugs are marked:		N/A
	With the voltage if it is different from the MAINS supply voltage		N/A
	For use only with specific equipment		N/A
	If not marked for specific equipment it is marked with:		N/A
	The maximum rated current or power; or		N/A
	Symbol 14 with full details in the documentation		N/A
5.1.4	Fuses		N/A

IEC 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Operator replaceable fuse marking (see also 5.4.5)		N/A
5.1.5	TERMINALS, connections and operating devices		N/A
5.1.5.1	General		N/A
	Where necessary for safety, indication of purpose of TERMINALS, connectors, controls and indicators marked		N/A
	If insufficient space, symbol 14 used		N/A
	Push-buttons and actuators of emergency stop devices and indicators:		—
	used only to indicate a warning of danger or		N/A
	the need for urgent action		N/A
	coloured red		N/A
	coded as specified in IEC 60073		N/A
	Supplementary means of coding provided, if meaning of colour relates (see IEC 60073):		N/A
	to safety of persons; or		N/A
	safety of the environment		N/A
5.1.5.2	TERMINALS		N/A
	MAINS supply TERMINAL identified		N/A
	Other TERMINAL marking:		N/A
	a) FUNCTIONAL EARTH TERMINALS (symbol 5 used)		N/A
	b) PROTECTIVE CONDUCTOR TERMINALS:		N/A
	Symbol 6 is placed close to or on the TERMINAL; or		N/A
	Part of appliance inlet		N/A
	c) TERMINALS of control circuits (symbol 7 used)		N/A
	d) HAZARDOUS LIVE TERMINALS supplied from the interior	No end user accessible terminals at hazardous voltages	N/A
	Standard MAINS socket outlet; or		N/A
	RATINGS marked; or		N/A
	Symbol 14 used		N/A
5.1.6	Switches and circuit breakers		N/A
	If disconnecting device, off position clearly marked		N/A
	If push-button used as power supply switch:		N/A
	Symbol 9 and 15 used for on-position		N/A
	Symbol 10 and 16 used for off-position		N/A
	Pair of symbols 9, 15 and 10, 16 close together		N/A

IEC 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
5.1.7	Equipment protected by DOUBLE INSULATION or REINFORCED INSULATION		N/A
	Protected throughout (symbol 11 used)		N/A
	Only partially protected (symbol 11 not used)		N/A
5.1.8	Field-wiring TERMINAL boxes		N/A
	If TERMINAL or ENCLOSURE exceeds 60 °C:		N/A
	Cable temperature RATING marked :		N/A
	Marking visible before and during connection or beside TERMINAL		N/A
5.2	Warning markings		P
	Visible when ready for NORMAL USE		P
	Are near or on applicable parts		P
	Symbols and text correct dimensions and colour:		—
	a) symbols min 2,75 mm and text 1,5 mm high and contrasting in colour with background		P
	b) symbols and text moulded, stamped or engraved in material min. 2,0 mm high and		N/A
	0,5 mm depth or raised if not contrasting in colour		N/A
	If necessary marked with symbol 14		N/A
	Statement to isolate or disconnect if access by using a tool to HAZARDOUS LIVE parts is permitted		N/A
5.3	Durability of markings		P
	The required markings remain clear and legible in NORMAL USE	(see Form A.3)	P
5.4	Documentation		P
5.4.1	General		P
	Equipment is accompanied by documentation for safety purposes for OPERATOR or RESPONSIBLE BODY		P
	Safety documentation for service personnel authorized by the manufacturer		P
	Documentation necessary for safe operation is provided in printed media or		P
	in electronic media if available at any time		P
	Documentation includes:		—
	a) intended use	Tank level sensor	P
	b) technical specification		P
	c) name and address of manufacturer or supplier		P
	d) information specified in 5.4.2 to 5.4.6		P
	e) information to mitigate residual RISK (see also subclause 17)		N/A

IEC 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	f) accessories for safe operation of the equipment specified		N/A
	g) guidance provided to check correct function of the equipment, if incorrect reading may cause a HAZARD from harmful or corrosive substances or HAZARDOUS live parts		N/A
	h) instructions for lifting and carrying		N/A
	Warning statements and a clear explanation of warning symbols:		—
	Provided in the documentation; or		P
	Information is marked on the equipment		N/A
5.4.2	Equipment ratings		P
	Documentation includes:		—
	a) Supply voltage or voltage range		N/A
	Frequency or frequency range		N/A
	Power or current rating.....		N/A
	b) Description of all input and output connections in accordance to 6.6.1 a)		N/A
	c) RATING of insulation of external circuits in accordance to 6.6.1 b)		N/A
	d) Statement of the range of environmental conditions including <ol style="list-style-type: none"> 1) Indoor or outdoor use 2) Altitude 3) Temperature 4) Relative humidity 5) MAINS supply voltage fluctuations 6) OVERVOLTAGE CATEGORY, except for cord/plug connected equipment 7) WET LOCATION, if applicable 8) POLLUTION DEGREE 		N/A
	e) Degree of protection (IEC 60529)	IP 68	P
	f) if impact rating less than 5 J:	Rating not less than 5J	N/A
	IK code in accordance to IEC 62262 marked or		N/A
	symbol 14 of table 1 marked, with		N/A
	RATED energy level and test method stated		N/A
5.4.3	Equipment installation		P
	Documentation includes instructions for:		P
	a) assembly, location and mounting requirements		P
	b) protective earthing		N/A
	c) connections to supply		N/A
	d) PERMANENTLY CONNECTED EQUIPMENT:		N/A
	1) Supply wiring requirements		N/A

IEC 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	2) If external switch or circuit-breaker, requirements, and location recommendation		N/A
	e) ventilation requirements		N/A
	f) requirements and safety characteristics for special external services (e. g. air, cooling liquid,max/min temp, pressure, flow)		N/A
	g) instructions relating to sound level	Noise not produced at a level which could pose a hazard	N/A
5.4.4	Equipment operation		P
	Instructions for use include:		P
	a) identification and description of operating controls		P
	b) positioning for disconnection		N/A
	c) instructions for interconnection		N/A
	d) specification of intermittent operation limits		N/A
	e) explanation of symbols used		P
	f) replacement of consumable materials		N/A
	g) cleaning and decontamination		N/A
	h) listing of any poisonous or injurious gases and quantities		N/A
	i) RISK reduction procedures relating to flammable liquids (see 9.5)		N/A
	j) RISK reduction procedures relating burn from surfaces permitted to exceed limits of 10.1		N/A
	Additional precautions for IEC 60950 conforming equipment in regard to moistures and liquids		N/A
	A statement about protection impairment if used in a manner not specified by the manufacturer		P
5.4.5	Equipment maintenance and Service	Battery is replaceable – instructions to be updated	P
	Instructions for RESPONSIBLE BODY include:		—
	Instructions sufficient in detail permitting safe maintenance and testing and continued safety after maintenance:		N/A
	Instruction against the use of detachable MAINS supply cord with inadequate rating		N/A
	Specific battery type of user replaceable batteries		N/A
	Any manufacturer specified parts		N/A
	Rating and characteristics of fuses		N/A
	Instructions include following subjects permitting safe servicing and continued safety:		N/A

IEC 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	a) product specific RISKS may affect service personnel		N/A
	b) protective measures for these RISKS		N/A
	c) verification of the safe state after repair		P
5.4.6	Integration into systems or effects resulting from special conditions		N/A
	Aspects described in documentation		N/A

6	PROTECTION AGAINST ELECTRIC SHOCK		P
6.1	General	(see Form A.14 and A.15)	P
6.1.1	Requirements		—
	Protection against electric shock maintained in NORMAL CONDITION and SINGLE FAULT CONDITION		P
	ACCESSIBLE parts not HAZARDOUS LIVE		P
	Voltage, current, charge or energy below the limits in NORMAL CONDITION and in SINGLE FAULT CONDITION between:		—
	ACCESSIBLE parts and earth		P
	two ACCESSIBLE parts on same piece of the equipment within a distance of 1,8 m		P
	Conformity is checked by the determination of 6.2 and 6.3 followed by the tests of 6.4 to 6.11		P
6.1.2	Exceptions		N/A
	Following HAZARDOUS LIVE parts may be ACCESSIBLE to an OPERATOR:		N/A
	a) parts of lamps and lamp sockets after lamp removal		N/A
	b) parts to be replaced by OPERATOR only by the use of tool and warning marking		N/A
	Those parts not HAZARDOUS LIVE 10 s after interruption of supply		N/A
	Capacitance test if charge is received from internal capacitor		N/A
6.2	Determination of ACCESSIBLE parts	(see Form A.4)	P
6.2.1	General		P
	Unless obviously determination of ACCESSIBLE parts as specified in 6.2.2 to 6.2.4		P
6.2.2	Examination		P
	- with jointed test finger (as specified B.2)		P
	- with rigid test finger (as specified B.1) and a force of 10 N		N/A
6.2.3	Openings above parts that are HAZARDOUS LIVE		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- test pin with length of 100 mm and 4 mm in diameter applied		N/A
6.2.4	Openings for pre-set controls	No such holes	N/A
	- test pin with length of 100 mm and 3 mm in diameter applied		N/A
6.3	Limit values for ACCESSIBLE parts		P
6.3.1	Levels in NORMAL CONDITION	(see Form A.5)	P
	a) Voltage limits less than 30 V r.m.s. and 42,4 V peak or 60 V d.c.		N/A
	for WET LOCATIONS voltage limits less than 16 V r.m.s. and 22,6 V peak or 35 V d.c.		P
	Voltages are not HAZARDOUS LIVE the levels of:		—
	b) Current less than 0,5 mA r.m.s. for sinusoidal, 0,7 mA peak non sinusoidal or mixed frequencies or 2 mA d.c. when measured with measuring circuit A.1 or A.2 if less than 100 Hz		N/A
	for WET LOCATIONS measuring circuit A.4 used		N/A
	70 mA r.m.s. when measured with circuit A.3 for higher frequencies		N/A
	Or		
	c) Levels of capacitive charge or energy less:		N/A
	1) 45 μ C for voltages up to 15 kV peak or d.c. or line A of Figure 3		N/A
	2) 350 mJ stored energy for voltages above 15 kV peak or d.c.		N/A
6.3.2	Levels in SINGLE FAULT CONDITION	(see Form A.6)	P
	a) Voltage limits less than 50 V r.m.s. and 70 V peak or 120 V d.c.		N/A
	for WET LOCATIONS voltage limits less than 33 V r.m.s. and 46,7 V peak or 70 V d.c.		P
	Voltages are not HAZARDOUS LIVE the levels of:		—
	b) Current less than 3,5 mA r.m.s. for sinusoidal, 5 mA peak non sinusoidal or mixed frequencies or 15 mA d.c. when measured with measuring circuit A.1 or A.2 if less than 100 Hz		N/A
	for WET LOCATIONS measuring circuit A.4 used		N/A
	500 mA r.m.s. when measured with circuit A.3 for higher frequencies		N/A
	or		—
	c) Levels of capacitive charge or energy less line B of Figure 3		N/A
6.4	Primary means of protection	Enclosure	P

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Clause	Requirement + Test	Result - Remark	Verdict
6.4.1	ACCESSIBLE parts prevented from being HAZARDOUS LIVE by one or more of following means:		P
	a) ENCLOSURES or PROTECTIVE BARRIERS (see 6.4.2)		P
	b) BASIC INSULATION (see 6.4.3)		N/A
	c) Impedance (see 6.4.4)		N/A
6.4.2	ENCLOSURES or PROTECTIVE BARRIERS	(see Form A.15)	P
	- meet rigidity requirements of 8.1		P
	- meet requirements for BASIC INSULATION, if protection is provided by insulation		P
	- meet requirements of 6.7 for CREEPAGE and CLEARANCES between ACCESSIBLE parts and HAZARDOUS live parts, if protection is provided by limited access		N/A
6.4.3	BASIC INSULATION	(see Form A.15)	N/A
	- meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7		N/A
6.4.4	Impedance		N/A
	Impedance used as primary means of protection meets all of following requirements:		—
	a) limits current or voltage to level of 6.3.2		N/A
	b) RATED for maximum WORKING VOLTAGE and the amount of power it will dissipate		N/A
	c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of BASIC INSULATION of 6.7		N/A
6.5	Additional means of protection in case of SINGLE FAULT CONDITION		P
6.5.1	ACCESSIBLE parts are prevented from becoming HAZARDOUS live by the primary means of protection and supplemented by one of:		N/A
	a) PROTECTIVE BONDING (see 6.5.2)		N/A
	b) SUPPLEMENTARY INSULATION (see 6.5.3)		P
	c) automatic disconnection of the supply (see 6.5.5)		N/A
	d) current- or voltage-limiting device (see 6.5.6)		N/A
	Alternatively one of the single means of protection is used:		N/A
	e) REINFORCED INSULATION (see 6.5.3)		P
	f) PROTECTIVE IMPEDANCE (see 6.5.4)		N/A
6.5.2	PROTECTIVE BONDING	(see Forms A.7, A.8, A.9, A.10 or A.11)	N/A
6.5.2.1	ACCESSIBLE conductive parts, may become HAZARDOUS LIVE in SINGLE FAULT CONDITION:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Bonded to the PROTECTIVE CONDUCTOR TERMINAL; or		N/A
	Separated by conductive screen or barrier bonded to PROTECTIVE CONDUCTOR TERMINAL		N/A
6.5.2.2	Integrity of PROTECTIVE BONDING		N/A
	a) PROTECTIVE BONDING consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses		N/A
	b) Soldered connections:		N/A
	Independently secured against loosening		N/A
	Not used for other purposes		N/A
	c) Screw connections are secured		N/A
	d) PROTECTIVE BONDING not interrupted; or		N/A
	exempted as removable part carries MAINS SUPPLY input connection		N/A
	e) Any movable PROTECTIVE BONDING connection specifically designed, and meets 6.5.2.4		N/A
	f) No external metal braid of cables used (not regarded as PROTECTIVE BONDING)		N/A
	g) IF MAINS SUPPLY passes through:		N/A
	Means provided for passing protective conductor;		N/A
	Impedance meets 6.5.2.4		N/A
	h) Protective conductors bare or insulated, if insulated, green/yellow		N/A
	Exceptions:		N/A
	1) earthing braids;		N/A
	2) internal protective conductors etc.;		N/A
	Green/yellow not used for other purposes		N/A
	TERMINAL suitable for connection of a PROTECTIVE CONDUCTOR, and meets 6.5.2.3		N/A
6.5.2.3	PROTECTIVE CONDUCTOR TERMINAL		N/A
	a) Contact surfaces are metal		N/A
	b) Appliance inlet used		N/A
	c) For rewirable cords and PERMANENTLY CONNECTED EQUIPMENT, PROTECTIVE CONDUCTOR TERMINAL is close to MAINS supply TERMINALS		N/A
	d) If no MAINS supply is required, any PROTECTIVE CONDUCTOR TERMINAL:		N/A
	Is near terminals of circuit for which protective earthing is necessary		N/A
	External if other terminals external		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	e) Equivalent current-carrying capacity to MAINS supply TERMINALS	(see Form A.7)	N/A
	f) If plug-in, makes first and breaks last		N/A
	g) If also used for other bonding purposes, PROTECTIVE CONDUCTOR:		N/A
	Applied first;		N/A
	Secured independently;		N/A
	Unlikely to be removed by servicing		N/A
	h) PROTECTIVE CONDUCTOR of measuring circuit:		N/A
	1) Current RATING equivalent to measuring circuit TERMINAL;		N/A
	2) PROTECTIVE BONDING:		N/A
	Not interrupted; or		N/A
	i) FUNCTIONAL EARTH TERMINALS allow independent connection		N/A
	j) If a binding screw used for PROTECTIVE CONDUCTOR TERMINAL:		N/A
	Suitable size for bond wire		N/A
	Not smaller than M 4		N/A
	At least 3 turns of screw engaged		N/A
	Passes tightening torque test		N/A
	k) Contact pressure not capable being reduced by deformation of materials		N/A
6.5.2.4	Impedance of PROTECTIVE BONDING of plug-connected equipment	(see Form A.9)	N/A
	Impedance between PROTECTIVE CONDUCTOR TERMINAL and each ACCESSIBLE part where PROTECTIVE BONDING is specified, is:		—
	less than 0,1 Ohm; or		N/A
	less than 0,2 Ohm if equipment is provided with non detachable cord		N/A
6.5.2.5	Bonding impedance of PERMANENTLY CONNECTED EQUIPMENT	(see Form A.10)	N/A
6.5.2.6	Transformer PROTECTIVE BONDING screen		N/A
	Transformer provided with screen for PROTECTIVE BONDING:		N/A
	screen bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses (see 6.5.2.2 a)		N/A
	screen bonding with soldered connection (see 6.5.2.2 b) is:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- Independently secured against loosening		N/A
	- Not used for other purposes		N/A
6.5.3	SUPPLEMENTARY and REINFORCED INSULATION		P
	Meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7		P
6.5.4	PROTECTIVE IMPEDANCE		N/A
	Limits current or voltage to level of 6.3.1 in NORMAL and to level of 6.3.2 in SINGLE FAULT CONDITION		N/A
	CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of DOUBLE or REINFORCED INSULATION of 6.7		N/A
	The PROTECTIVE IMPEDANCE consists of one or more of the following:	(see Table 1 and Form A.12)	—
	a) appropriate single component suitable for safety and reliability for protection, it is:		N/A
	1) RATED twice the maximum WORKING VOLTAGE		N/A
	2) resistor RATED for twice the power dissipation for maximum WORKING VOLTAGE		N/A
	b) combination of components		N/A
	Single electronic device not used as PROTECTIVE IMPEDANCE		N/A
6.5.5	Automatic disconnection of the supply		N/A
	a) RATED to disconnect the load within time specified in Figure 2		N/A
	b) RATED for the maximum load conditions of the equipment		N/A
6.5.6	Current- or voltage-limiting devices		N/A
	Device complies with all of:		N/A
	a) RATED to limit the current or voltage to the level of 6.3.2		N/A
	b) RATED for the maximum WORKING VOLTAGE; and		N/A
	RATED for the maximum operational current if applicable		N/A
	c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of SUPPLEMENTARY INSULATION of 6.7		N/A
6.6	Connections to external circuits		N/A
6.6.1	Connections do not cause ACCESSIBLE parts of the following to become HAZARDOUS LIVE in NORMAL CONDITION or SINGLE FAULT CONDITION:		N/A
	- the external circuits		N/A
	- the equipment		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Protection achieved by separation of circuits; or		N/A
	short circuit of separation does not cause a HAZARD		N/A
	Instructions or markings for each terminal include:		N/A
	a) RATED conditions for TERMINAL		N/A
	b) Required RATING of external circuit insulation		N/A
6.6.2	TERMINALS for external circuits		N/A
	TERMINALS which receive a charge from an internal capacitor are not HAZARDOUS LIVE after 10 s of interrupting supply connection		N/A
6.6.3	Circuits with terminals which are HAZARDOUS LIVE		N/A
	These circuits are:		N/A
	Not connected to ACCESSIBLE conductive parts; or		N/A
	Connected to ACCESSIBLE conductive parts, but are not MAINS CIRCUITS and have one TERMINAL contact at earth potential		N/A
	No ACCESSIBLE conductive parts are HAZARDOUS LIVE		N/A
6.6.4	ACCESSIBLE terminals for stranded conductors		N/A
	No RISK of accidental contact because:		N/A
	Located or shielded		N/A
	Checked by: a) max length of insulation removed as specified by the equipment manufacturer b) with 8 mm length of insulation removed if no specification given by the equipment manufacturer		N/A
6.7	Insulation requirements	(see Form A.14)	P
6.7.1	The nature of insulation		P
6.7.1.1	Insulation between ACCESSIBLE parts or between separate circuits consist of CLEARANCES, CREEPAGE DISTANCES and solid insulation if provided as protection against a HAZARD		P
6.7.1.2	CLEARANCES		P
	Required CLEARANCES reflecting factors of 6.7.1.1	(see Form A.14, A.15)	P
	Equipment rated for operating altitude greater than 2000 m correction factor of Table 3 of 61010-1 applied		N/A
6.7.1.3	CREEPAGE DISTANCES		P
	Required CREEPAGE DISTANCES reflecting factors of 6.7.1.1 a) to d)	(see Form A.14, A.15)	P
	CTI material group reflected by requirements		P
	CTI test performed		N/A
6.7.1.4	Solid insulation		P

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Clause	Requirement + Test	Result - Remark	Verdict
	Required solid insulation reflecting factors of 6.7.1.1 a) to d)	(see Form A.14, A.15)	P
6.7.1.5	Requirements for insulation according to type of circuit	(see Form A.14, A.15)	P
	a) 6.7.2 MAINS circuits of OVERVOLTAGE CATEGORY II up to nominal supply voltage of 300 V		N/A
	b) 6.7.3 secondary circuits separated from circuits defined in a) by transformer		N/A
	c) K.1 MAINS circuits of OVERVOLTAGE CATEGORY III and IV or OVERVOLTAGE CATEGORY II over 300 V		N/A
	d) K.2 secondary circuits separated from circuits defined in c) by transformer		N/A
	e) K.3 circuits having one or more of:		N/A
	1) maximum TRANSIENT OVERVOLTAGE is limited to known level below the level of MAINS CIRCUIT		N/A
	2) maximum TRANSIENT OVERVOLTAGE above the level of MAINS CIRCUIT		N/A
	3) WORKING VOLTAGE is the sum of more than one circuit or a mixed voltage		N/A
	4) WORKING VOLTAGE includes recurring peak voltage, may include non-sinusoidal or non-periodic waveform		N/A
	5) WORKING VOLTAGE with a frequency above 30 kHz		N/A
6.7.2	Insulation for MAINS CIRCUITS of OVERVOLTAGE CATEGORY II with a nominal supply voltage up to 300 V		N/A
6.7.2.1	CLEARANCES and CREEPAGE DISTANCES	(see Form A.14, A.15)	P
	Values for MAINS CIRCUITS of table 4 are met	Approved PSU	N/A
	Coatings to achieve reduction to POLLUTION DEGREE 1 comply with requirements of Annex H		N/A
6.7.2.2	Solid insulation		P
6.7.2.2.1	Withstands electrical and mechanical stresses in normal use and all RATED environmental conditions of 1.4		P
	Equipment passed voltage tests of 6.8.3 with values of Table 5 for 1 min	(see Form A.19)	N/A
	Complies as applicable:		—
	a) ENCLOSURE or PROTECTIVE BARRIER of Clause 8		P
	b) moulded and potted parts requirements of 6.7.2.2.2		N/A
	c) inner layers of printed wiring boards requirements of 6.7.2.2.3		N/A
	d) thin-film insulation requirements of 6.7.2.2.4		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
6.7.2.2.2	Moulded and potted parts		N/A
	Conductors between same two layers are separated by at least 0,4 mm after moulding is completed		N/A
6.7.2.2.3	Inner insulating layers of printed wiring boards		N/A
	Separated by at least 0,4 mm between same two layers		N/A
	REINFORCED INSULATION have adequate electric strength; one of following methods used:		N/A
	a) thickness of insulation is at least 0,4 mm		N/A
	b) insulation is assembled of minimum two separate layers, each RATED for test voltage of Table 5 for BASIC INSULATION		N/A
	c) insulation is assembled of minimum two separate layers, where the combination is rated for test voltage of Table 5 for REINFORCED INSULATION		N/A
6.7.2.2.4	Thin-film insulation		N/A
	Conductors between same two layers are separated by applicable CLEARANCES and CREEPAGE DISTANCE of 6.7.2.1		N/A
	REINFORCED INSULATION have adequate electric strength; one of following methods used:		N/A
	a) thickness through the insulation at least 0,4 mm		N/A
	b) insulation is assembled of min two separate layers, each RATED for test voltage of Table 5 for BASIC INSULATION		N/A
	c) insulation is assembled of min three separate layers, where the combination of two layers passed voltage tests of 6.8.3 with values of Table 5 for REINFORCED INSULATION 1 min	(see Form A.19)	N/A
6.7.3	Insulation for secondary circuits derived from MAINS CIRCUITS of OVERVOLTAGE CATEGORY II up to 300 V	No circuits derived from mains	N/A
6.7.3.1	Secondary circuits where separation from MAINS CIRCUITS is achieved by a transformer providing:		—
	- REINFORCED INSULATION		N/A
	- DOUBLE INSULATION		N/A
	- screen connected to the PROTECTIVE CONDUCTOR TERMINAL		N/A
6.7.3.2	CLEARANCES		P
	a) meet the values of Table 6 for BASIC INSULATION and SUPPLEMENTARY INSULATION; or		N/A
	twice the values of Table 6 for REINFORCED INSULATION		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	or		—
	b) pass the voltage tests of 6.8 with values of Table 6; with following adjustments:	(see Form A.19)	N/A
	1) values for REINFORCED INSULATION are 1,6 times the values for BASIC INSULATION		N/A
	2) if operating altitude is greater than 2000 m values of CLEARANCES multiplied with factor of Table 3		N/A
	3) minimum CLEARANCE is 0,2 mm for POLLUTION DEGREE 2 and 0,8 mm for POLLUTION DEGREE 3		N/A
6.7.3.3	CREEPAGE DISTANCES		P
	Based on WORKING VOLTAGE meets the values of Table 7 for BASIC and SUPPLEMENTARY INSULATION		N/A
	Values for REINFORCED INSULATION are twice the values of BASIC INSULATION		N/A
	Coatings to achieve reduction to POLLUTION DEGREE 1 comply with requirements of Annex H		N/A
6.7.3.4	Solid insulation		P
6.7.3.4.1	Withstands electrical and mechanical stresses in normal use and all RATED environmental conditions of 1.4		N/A
	a) Equipment passed voltage test of 6.8.3.1 for 5 s with VALUES of Table 6 for BASIC and SUPPLEMENTARY INSULATION	(see Form A.19)	N/A
	values for REINFORCED INSULATION are 1,6 times the values of BASIC INSULATION		N/A
	b) if WORKING VOLTAGE exceeds 300 V, equipment passed voltage test of 6.8.3.1 for 1 min with a test voltage of 1,5 times working voltage for BASIC or SUPPLEMENTARY INSULATION	(see Form A.19)	N/A
	value for REINFORCED INSULATION are twice the WORKING VOLTAGE		N/A
	Complies as applicable:		—
	1) ENCLOSURE or PROTECTIVE BARRIER of Clause 8		N/A
	2) moulded and potted parts requirements of 6.7.3.4.2		N/A
	3) inner layers of printed wiring boards requirements of 6.7.3.4.3		N/A
	4) thin-film insulation requirements of 6.7.3.4.4		N/A
6.7.3.4.2	Moulded and potted parts		N/A
	Conductors between same two layers are separated by applicable distances of Table 8		N/A
6.7.3.4.3	Inner insulation layers of printed wiring boards		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Separated by at least by applicable distances of Table 8 between same two layers		N/A
	REINFORCED INSULATION have adequate electric strength; one of following methods used:		N/A
	a) thickness at least applicable distance of Table 8		N/A
	b) insulation is assembled of minimum two separate layers, each RATED for test voltage of Table 6 for BASIC INSULATION		N/A
	c) insulation is assembled of min two separate layers, where the combination is RATED for 1,6 times the test voltage of Table 6		N/A
6.7.3.4.4	Thin-film insulation		N/A
	Conductors between same two layers are separated by applicable CLEARANCES and CREEPAGE DISTANCE of 6.7.3.2 and 6.7.3.3		N/A
	REINFORCED INSULATION have adequate electric strength; one of following methods used:		N/A
	a) thickness at least applicable distance of Table 8		N/A
	b) insulation is assembled of min two separate layers, each RATED for test voltage of Table 6 for BASIC INSULATION		N/A
	c) insulation is assembled of min three separate layers, where the combination of two layers passed voltage tests with 1,6 time values of Table 6:	(see Form A.19)	N/A
	a.c. test of 6.8.3.1; or		N/A
	d.c. test of 6.8.3.2 for circuits stressed only by d.c. voltages		N/A
6.8	Procedure for dielectric strength tests	(see Forms A.14 and A.19)	N/A
6.9	Constructional requirements for protection against electric shock		N/A
6.9.1	If a failure could cause a HAZARD:	Failure does not cause a hazard	N/A
	a) Security of wiring connections		N/A
	b) Screws securing removable covers		N/A
	c) Accidental loosening		N/A
	d) CLEARANCES and CREEPAGE DISTANCES not reduced below the values of basic insulation by loosening of parts or wires		N/A
6.9.2	Insulating materials		N/A
	Material not to be used for safety relevant insulation:		N/A
	a) Easily damaged materials not used		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	b) Non-impregnated hygroscopic materials not used		N/A
6.9.3	Colour coding		N/A
	Green-and-yellow insulation shall not be used except:		N/A
	a) protective earth conductors;		N/A
	b) PROTECTIVE BONDING conductors;		N/A
	c) potential equalization conductors;		N/A
	d) functional earth conductors		N/A
6.10	Connection to MAINS supply source and connections between parts of equipment		N/A
6.10.1	MAINS supply cords	Not mains connected	N/A
	RATED for maximum equipment current (see 5.1.3 c)		N/A
	Cable complies with IEC 60227 or IEC 60245		N/A
	Heat-resistant if likely to contact hot parts		N/A
	Temperature RATING (cord and inlet) :		N/A
	Green/yellow used only for connection to PROTECTIVE CONDUCTOR TERMINALS		N/A
	Detachable cords with IEC 60320 MAINS connectors:		—
	Conform to IEC 60799; or		N/A
	Have the current RATING of the MAINS connector		N/A
6.10.2	Fitting of non-detachable MAINS supply cords		N/A
6.10.2.1	Cord entry		N/A
	a) Inlet or bushing with a smoothly rounded opening; or		N/A
	b) Insulated cord guard protruding >5 D		N/A
6.10.2.2	Cord anchorage		N/A
	Protective earth conductor is the last to take the strain		N/A
	a) Cord is not clamped by direct pressure from a screw		N/A
	b) Knots are not used		N/A
	c) Cannot push the cord into the equipment to cause a HAZARD		N/A
	d) No failure of cord insulation in anchorage with metal parts		N/A
	e) Not to be loosened without a tool		N/A
	f) Cord replacement does not cause a HAZARD and method of strain relief is clear		N/A
	Push-pull and or torque test		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
6.10.3	Plugs and connectors		N/A
	MAINS supply plugs, connectors etc., conform with relevant specifications		N/A
	If equipment supplied at voltages below 6.3.2.a) or from a sole source:		—
	Plugs of supply cords do not fit MAINS sockets above rated SUPPLY voltage		N/A
	MAINS type plugs used only for connection to MAINS supply		N/A
	Plug pins which receive a charge from an internal capacitor		N/A
	Accessory MAINS socket outlets:		—
	a) Marking if accepts a standard MAINS supply plug (see 5.1.3e)	No outlets	N/A
	b) Input has a protective earth conductor if outlet has EARTH TERMINAL CONTACT		N/A
6.11	Disconnection from supply source		N/A
6.11.1	Disconnects all current-carrying conductors		N/A
6.11.2	Exceptions		N/A
6.11.3	Requirements according to type of equipment		N/A
6.11.3.1	PERMANENTLY CONNECTED EQUIPMENT and multi-phase equipment		N/A
	Employs switch or circuit-breaker		N/A
	If switch or circuit-breaker is not part of the equipment, documentation requires:		—
	a) Switch or circuit-breaker to be included in building installation		N/A
	b) Suitable location easily reached		N/A
	c) Marking as disconnecting for the equipment		N/A
6.11.3.2	Single-phase cord-connected equipment		N/A
	Equipment is provided with one of the following:		N/A
	a) Switch or circuit-breaker		N/A
	b) Appliance coupler (disconnectable without tool)		N/A
	c) Separable plug (without locking device)		N/A
6.11.4	Disconnecting devices	No mains connection	N/A
6.11.4.1	Disconnecting device part of equipment		N/A
	Electrically close to the SUPPLY		N/A
	Power-consuming components not electrically located between the supply source and the disconnecting device		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Except electromagnetic interference suppression circuits permitted to be located on the supply side of the disconnecting device		N/A
6.11.4.2	Switches and circuit-breakers		N/A
	When used as disconnection device:		—
	Meets IEC 60947-1 and IEC 60947-3		N/A
	Marked to indicate function :		N/A
	Not incorporated in MAINS cord		N/A
	Does not interrupt PROTECTIVE EARTH CONDUCTOR		N/A
6.11.4.3	Appliance couplers and plugs	Internal battery powered	N/A
	Where an appliance coupler or separable plug is used as the disconnecting device (see 6.11.3.2):		N/A
	Readily identifiable and easily reached by the operator		N/A
	Single-phase portable equipment cord length not more than 3 m		N/A
	PROTECTIVE EARTH CONDUCTOR connected first and disconnected last		N/A
7	PROTECTION AGAINST MECHANICAL HAZARDS		P
7.1	Equipment does not cause a mechanical HAZARD in NORMAL nor in SINGLE FAULT CONDITION		P
	Conformity is checked by 7.2 to 7.7		P
7.2	Sharp edges		P
	Easily touched parts are smooth and rounded		P
	Do not cause injury during NORMAL USE and		P
	Do not cause injury during SINGLE FAULT CONDITION		P
7.3	Moving parts		P
7.3.1	HAZARDS from moving parts limited to a tolerable level with the conditions specified in 7.3.2 and 7.3.5	No moving parts	N/A
	RISK assessment in accordance with 7.3.3 carried out		N/A
7.3.2	Exceptions		P
	Access to HAZARDOUS moving parts permitted under following circumstances:		N/A
	a) obviously intended to operate on parts or materials external of the equipment		N/A
	inadvertent touching of moving parts minimized by equipment design (e.g. guards or handles)		N/A
	b) If OPERATOR access is unavoidable outside NORMAL USE following precautions have been taken:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	1) Access requires TOOL		N/A
	2) Statement about training in the instructions		N/A
	3) Warning markings on covers prohibiting access by untrained OPERATORS		N/A
	or symbol 14 with full details in documentation		N/A
7.3.3	RISK assessment for mechanical HAZARDS to body parts	Form A.21(a)	N/A
	Risk is reduced to a tolerable level by protective measures as specified in Table 12		N/A
	Minimum protective measures:		—
	A. Low level measures		N/A
	B. Moderate measures		N/A
	C. Stringent measures		N/A
7.3.4	Limitation of force and pressure		N/A
	Following levels are met in NORMAL and SINGLE FAULT CONDITION:		N/A
	Continuous contact pressure below 50 N / cm ² with force below 150 N		N/A
	Temporary force below 250 N for an area at least of 3 cm ² for a maximum duration of 0,75 s	30 N measured	N/A
7.3.5	Gap limitations between moving parts		N/A
7.3.5.1	Access normally allowed		N/A
	If levels of 7.3.4 exceeded and body part may be inserted minimum gap as specified in Table 13 assured in NORMAL and in SINGLE FAULT CONDITION		N/A
7.3.5.2	Access normally prevented		N/A
	Maximum gap as specified in Table 14 assured in NORMAL and in SINGLE FAULT CONDITION		N/A
7.4	Stability		P
	Equipment not secured to building structure is physical stable	Intended for mounting	N/A
	Stability maintained after opening of drawers etc. by automatic means, or		N/A
	warning marking requires the application of means		N/A
	Compliance checked by following tests as applicable:		—
	a) 10° tilt test for other than handheld equipment		N/A
	b) multi-directional force test for equipment exceeds height of 1 m and mass of 25 kg		N/A
	c) downward force test for floor-standing equipment		N/A
	d) overload test with 4 times maximum load for castor or support that supports greatest load		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	e) castor or support that supports greatest load removed from equipment		N/A
7.5	Provisions for lifting and carrying		N/A
7.5.1	Equipment more than 18 kg :	< 18 kg weight	—
	Has means for lifting or carrying; or		N/A
	Directions in documentation		N/A
7.5.2	Handles and grips		N/A
	Handles or grips withstand four times weight		N/A
7.5.3	Lifting devices and supporting parts		N/A
	RATED for maximum load; or		N/A
	tested with four times maximum static load		N/A
7.6	Wall mounting		N/A
	Mounting brackets withstand four times weight		N/A
7.7	Expelled parts		N/A
	Equipment contains or limits the energy		N/A
	Protection not removable without the aid of a tool		N/A

8	RESISTANCE TO MECHANICAL STRESSES		P
8.1	Equipment does not cause a HAZARD when subjected to mechanical stresses in NORMAL USE		P
	Normal protection level is 5 J		P
	Levels below 5 J but not less than 1 J are acceptable if all of following criteria are met:		N/A
	a) lower level justified by RISK assessment of manufacturer		N/A
	b) equipment installed in its intended application is not easily touched		N/A
	c) only occasional access during NORMAL USE		N/A
	d) IK code in accordance to IEC 62262 marked or symbol 14 used with full information in the documentation		N/A
	For non-metallic ENCLOSURES rated below 2 °C ambient temperature value chosen for minimum RATED temperature		N/A
	Impact energies between IK values, the IK code marked for nearest lower value		N/A
	Conformity is checked by performing following tests:		—
	1) static test of 8.2.1		P
	2) impact test of 8.2.2 with 5 J except for HAND-HELD EQUIPMENT		P

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Clause	Requirement + Test	Result - Remark	Verdict
	if impact energy not selected to 5 J alternate method of IEC 62262 used		N/A
	3) drop test of 8.3.1 or 8.3.2 except for FIXED EQUIPMENT with mass over 100 kg	Equipment to be fixed	N/A
	Equipment RATED with an impact rating of IK 08 that obviously meets the criteria		N/A
	After the tests inspection with following results:		—
	- HAZARDOUS LIVE parts above the limits of 6.3.2 not ACCESSIBLE		P
	- insulation pass the voltage tests of 6.8	(see Form A.31)	P
	i) no leaks of corrosive and harmful substances		P
	ii) ENCLOSURE shows no cracks resulting in a HAZARD		P
	iii) CLEARANCES not less than their permitted values		P
	iv) insulation of internal wiring remains undamaged		P
	v) PROTECTIVE BARRIERS not damaged or loosened		P
	vi) No moving parts exposed, except permitted by 7.3		P
	vii) no damage which could cause spread of fire		P
8.2	ENCLOSURE rigidity test		P
8.2.1	Static test	(see Form A.22)	P
	- 30 N with 12 mm rod to each part of ENCLOSURE		P
	- in case of doubt test conducted at maximum RATED ambient temperature		N/A
8.2.2	Impact test	(see Form A.22)	P
	Impact applied to any part of ENCLOSURE causing a HAZARD if damaged		P
	Impact energy level and corresponding IK code :	5J IK08	P
	Non-metallic ENCLOSURES cooled to minimum RATED ambient temperature if below 2 °C	Cooled to -25 °C	P
8.3	Drop test	(see Form A.22)	P
8.3.1	Other than HAND-HELD and DIRECT-PLUG-IN EQUIPMENT		P
	Tests conducted with a drop height or angle of..... :	100 mm	P
8.3.2	HAND-HELD and DIRECT-PLUG-IN EQUIPMENT		N/A
	Non-metallic ENCLOSURES cooled to minimum RATED ambient temperature if below 2 °C		N/A
	Drop test conducted with an height of 1 m		N/A
9	PROTECTION AGAINST THE SPREAD OF FIRE		P
9.1	No spread of fire in NORMAL and SINGLE FAULT CONDITION	Method c	P

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Clause	Requirement + Test	Result - Remark	Verdict
	MAINS supplied equipment meets requirements of 9.6 additionally		P
	Conformity is checked by minimum one or a combination of the following (see Figure 11):	(see Form A.23)	P
	a) SINGLE FAULT test of 4.4; or	(see Forms A.1)	N/A
	b) Application of 9.2 (eliminating or reducing the sources of ignition); or		N/A
	c) Application of 9.3 (containment of fire within the equipment)		P
9.2	Eliminating or reducing the sources of ignition within the equipment		P
	a) 1) Limited-energy circuit (see 9.4); or		P
	2) BASIC INSULATION provided for parts of different potential; or	(see Forms A.14 and A.19)	N/A
	Bridging the insulation does not cause ignition	(see Form A.1)	N/A
	b) Surface temperature of liquids and parts (see 9.5)		P
	c) No ignition in circuits designed to produce heat	(see Form A.1)	N/A
9.3	Containment of the fire within the equipment, should it occur	Enclosure material rated V-0	P
9.3.1	Spread of fire outside equipment reduced to a tolerable level if:		P
	a) Energizing of the equipment is controlled by an OPERATOR held switch		N/A
	b) ENCLOSURE is conform with constructional requirements of 9.3.1; and		P
	Requirements of 9.5 are met		P
9.3.2	Constructional requirements		P
	a) Connectors and insulating material have flammability classification V-2 or better		P
	b) Insulated wires and cables are flame retardant (VW-1 or equivalent)		P
	c) ENCLOSURE meets following requirements:		P
	1) Bottom and sides in arc of 5 ° (see Figure 13) to non-limited circuits (9.4) meets:		P
	i) no openings; or		P
	ii) perforated as specified in Table 16; or		N/A
	iii) metal screen with a mesh; or		N/A
	iv) baffles as specified in Figure 12		N/A
	2) Material of ENCLOSURE and any baffle or flame barrier is made of:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Metal (except magnesium); or		N/A
	Non-metallic materials have flammability classification V-1 or better		N/A
	3) ENCLOSURE and any baffle or flame barrier have adequate rigidity		N/A
9.4	Limited-energy circuit		P
	a) Potential not more than 30 r.m.s. and 42,4 V peak, or 60 V dc		P
	b) Current limited by one of following means:		P
	1) Inherently or by impedance (see Table 17); or		P
	2) Overcurrent protective device (see Table 18); or		N/A
	3) A regulating network limits also in SINGLE FAULT CONDITION (see Table 17)		N/A
	c) Is separated by at least BASIC INSULATION from other circuits having energy levels exceeding criteria a) or b)		N/A
	Fuse or a nonadjustable electromechanical device is used		N/A
9.5	Requirements for equipment containing or using flammable liquids		N/A
	Flammable liquids contained in or specified for use with equipment do not cause spread of fire	(see Form A.26)	N/A
	RISK is reduced to a tolerable level :		N/A
	a) The temperature of surface or parts in contact with flammable liquids is 25 °C below fire point		N/A
	b) The quantity of liquid is limited		N/A
	c) Flames are contained within the equipment		N/A
	Detailed instructions for RISK-reduction provided		N/A
9.6	Overcurrent protection		N/A
9.6.1	MAINS supplied equipment protected		N/A
	BASIC INSULATION between MAINS parts of opposite polarity provided	(see Forms A.14 and A.15)	N/A
	Devices not in the protective conductor		N/A
	Fuses or single-pole circuit-breakers not fitted in neutral (multi-phase)		N/A
9.6.2	PERMANENTLY CONNECTED EQUIPMENT		N/A
	Overcurrent protection device:		N/A
	Fitted within the equipment; or		N/A
	Specified in manufacturer's instructions		N/A
9.6.3	Other equipment		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Protection within the equipment		N/A
10	EQUIPMENT TEMPERATURE LIMITS AND RESISTANCE TO HEAT		P
10.1	Surface temperature limits for protection against burns		P
	Easily touched surfaces within the limits in NORMAL and in SINGLE FAULT CONDITION:	(see Form A.27A)	P
	- at an specified ambient temperature of 40 °C		N/A
	- for equipment rated above 40 °C ambient temperature limits not exceeded raised by the difference to 40 °C		P
	Heated surfaces necessary for functional reasons exceeding specified values:		N/A
	Are recognizable as such by appearance or function; or		N/A
	Are marked with symbol 13		N/A
	Guards are not removable without tool		N/A
10.2	Temperatures of windings		N/A
	Limits not exceeded in:		N/A
	NORMAL CONDITION		N/A
	SINGLE FAULT CONDITION		N/A
10.3	Other temperature measurements		P
	Following measurements conducted if applicable:	(see Form A.27A)	P
	a) Value of 60 °C of field-wiring terminal box not exceeded		N/A
	b) Surface of flammable liquids and parts in contact with this liquids		N/A
	c) Surface of non-metallic ENCLOSURES		P
	d) Parts made of insulating material supporting parts connected to MAINS supply		P
	e) Terminals carrying a current more than 0,5 A		N/A
10.4	Conduct of temperature tests		P
10.4.1	Tests conducted under reference test conditions and manufacturer's instructions		P
10.4.2	Temperature measurement of heating equipment		N/A
	Tests conducted in test corner		N/A
10.4.3	Equipment intended for installation in a cabinet or wall		N/A
	Equipment built in as specified in installation instructions		N/A
10.5	Resistance to heat		P

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Clause	Requirement + Test	Result - Remark	Verdict

10.5.1	Integrity of CLEARANCE and CREEPAGE DISTANCES		P
10.5.2	Non-metallic ENCLOSURES		P
	Within 10 min after treatment:		—
	Equipment subjected to suitable stresses of 8.2 and 8.3 complying with criteria of 8.1		P
10.5.3	Insulating material		P
	a) Parts supporting parts connected to MAINS supply		P
	b) TERMINALS carrying a current more than 0,5 A		N/A
	Examination of material data; or		N/A
	in case of doubt:		—
	1) Ball pressure test; or	(see Form A.29)	N/A
	2) Vicat softening test of ISO 306		N/A

11	PROTECTION AGAINST HAZARDS FROM FLUIDS and SOLID FOREIGN OBJECTS		P
11.1	Protection to OPERATORS and surrounding area provided by EQUIPMENT	Equipment may come into contact with fluid but is not intended as a container	P
	All fluids specified by manufacturer considered		P
11.2	Cleaning		N/A
11.3	Spillage		N/A
11.4	Overflow		N/A
11.5	Battery electrolyte		N/A
	Battery electrolyte leakage presents no HAZARD		N/A
11.6	Equipment RATED with a degree of ingress protection (IP code)		N/A
11.6.1	Equipment RATED according to IEC 60529 adequately resists the ingress of solid foreign objects and water to its specification	IP 68	P
11.6.2	Verified by tests of 11.6.3 and/or 11.6.4		P
11.7	Fluid pressure and leakage		N/A
11.7.1	Maximum pressure	Atmospheric	N/A
	Maximum pressure of any part does not exceed P_{RATED}		N/A
11.7.2	Leakage and rupture at high pressure	No high pressures in equipment	N/A
	Safety established by calculation for e.g. according to PED 2014/68/EU		N/A
	Conformity checked by inspection and if a HAZARD could arise the hydraulic test of 11.7.2		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
11.7.3	Leakage from low-pressure parts		N/A
11.7.4	Overpressure safety device		N/A
	Does not operate in NORMAL USE		N/A
	a) Connected as close as possible to parts intended to be protected		N/A
	b) Easy access for inspection, maintenance and repair		N/A
	c) Adjustment only with TOOL		N/A
	d) No discharge towards person		N/A
	e) No HAZARD from deposit of discharged material		N/A
	f) Adequate discharge capacity		N/A
	No shut-off valve between overpressure safety device and protected parts		N/A

12	PROTECTION AGAINST RADIATION, INCLUDING LASER SOURCES, AND AGAINST SONIC AND ULTRASONIC PRESSURE		P
12.1	Equipment provides protection		N/A
12.2	Equipment producing ionizing radiation		N/A
12.2.1	Ionizing radiation	(see Form A.34)	N/A
12.2.1.1	Equipment meets the following requirements:		N/A
	a) if intended to emit radiation meets requirements of 12.2.1.2; or		N/A
	tested, classified and marked in accordance to IEC 60405		N/A
	b) if only emits stray radiation meets requirements of 12.2.1.3		N/A
12.2.1.2	Equipment intended to emit radiation		N/A
	Effective dose rate of radiation measured :		N/A
	If dose rate exceeds 5 μ Sv/h marked with the following:		N/A
	a) Symbol 17 (ISO 361)		N/A
	b) Abbreviations of the radionuclides :		N/A
	c) With maximum dose at 1 m; or :		N/A
	with dose rate value between 1 μ Sv/h and 5 μ Sv/h in m :		N/A
12.2.1.3	Equipment not intended to emit radiation		N/A
	Limit for unintended stray radiation of 1 μ Sv/h at any easily reached point kept :		N/A
12.2.2	Accelerated electrons		N/A
	Compartments opened only by the use of a TOOL		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
12.3	Optical Radiation	Low energy LEDs utilised	P
	No unintentional HAZARDOUS escape of UV, visible or infrared radiation:		—
	- Radiation source assessed in accordance with IEC 62471 unless exempted (see table 22)		P
	- Lamp and lamp systems assessed to be in Risk Groups 1, 2 or 3 of IEC 62471 labelled in accordance with IEC TR 62471		N/A
	- Symbol 14 utilised and label included in documentation where size prohibits labelling		N/A
	- Information on protective measures, restrictions of use and operating instructions that may be necessary provided, including the applicable conditions of Table 23		N/A
12.4	Microwave radiation	Low power RADAR sensor operating at 60 GHz.	P
	Power density does not exceed 10 W/m ² :	10 dBm = 0.01 W	P
12.5	Sonic and ultrasonic pressure		N/A
12.5.1	Sound level	(see Form A.35)	P
	No HAZARDOUS sound emission		P
	Maximum sound pressure level measured and calculated for maximum sound power level as specified in ISO 3746 or ISO 9614-1		N/A
	Instruction describes measures for protection		N/A
12.5.2	Ultrasonic pressure	(see Form A.35)	N/A
	Equipment not intended to emit ultrasound does not exceed limit of 110 dB between 20 kHz and 100 kHz		N/A
	Equipment intended to emit ultrasound:		N/A
	Outside useful beam does not exceed limit of 110 dB between 20 kHz and 100 kHz		N/A
	If inside useful beam above values exceeded:		N/A
	Marked with Symbol 14 of Table 1		N/A
	and following information in the documentation:		N/A
	a) dimensions of useful beam		N/A
	b) area where ultrasonic pressure exceed 110 dB		N/A
	c) maximum sound pressure inside beam area		N/A
12.6	Laser sources		N/A
	Equipment meets requirements of IEC 60825-1		N/A
13	PROTECTION AGAINST LIBERATED GASES AND SUBSTANCES, EXPLOSION AND IMPLOSION		P
13.1	Poisonous and injurious gases and substances		P

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Clause	Requirement + Test	Result - Remark	Verdict
	No dangerous amounts of hazardous substances liberated in NORMAL CONDITION and SINGLE FAULT CONDITION		P
	If potentially hazardous substances are liberated, the OPERATOR, not directly exposed to a quantity of the substance that could cause them harm		N/A
	If NORMAL operation requires the discharge of hazardous substances, and if that discharge is intended to be managed by the RESPONSIBLE BODY in accordance with the manufacturers instructions, such discharges not considered to be liberation of hazardous substances		N/A
	Attached data/test reports demonstrate conformity		N/A
13.2	Explosion and implosion		P
13.2.1	Components		N/A
	Components liable to explode:		—
	Pressure release device provided; or		N/A
	Apparatus incorporates operator protection (see also 7.7)		N/A
	Pressure release device:		—
	Discharge without danger		N/A
	Cannot be obstructed		N/A
13.2.2	Batteries and battery charging	(see Form A.36)	N/A
	If explosion or fire HAZARD could occur:		—
	Protection incorporated in the equipment; or		N/A
	Instructions specify batteries with built-in protection		N/A
	In case of wrong type of battery used:		—
	No HAZARD; or		N/A
	Warning by marking and within instructions		N/A
	Equipment with means to charge rechargeable batteries:		—
	Warning against the charging of non-rechargeable batteries; and		N/A
	Type of rechargeable battery indicated; or		N/A
	Symbol 14 used		N/A
	Battery compartment design		N/A
	Single component failure	See form A.36 - No hazard	N/A
	Polarity reversal test	See form A.36 - No hazard	N/A
13.2.3	Implosion of cathode ray tubes		N/A
	If maximum face dimensions > 160 mm..... :		—
	Intrinsically protected and correctly mounted; or		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	ENCLOSURE provides protection:		N/A
	If non-intrinsically protected:		—
	Screen not removable without TOOL		N/A
	If glass screen, not in contact with surface of tube		N/A
14	COMPONENTS AND SUBASSEMBLIES		P
14.1	Where safety is involved, components and subassemblies meet relevant requirements	(see Table 1)	P
14.2	Motors		N/A
14.2.1	Motor temperatures		N/A
	Does not present a HAZARD when stopped or prevented from starting; or		N/A
	Protected by over-temperature or thermal protection device conform with 14.3		N/A
14.2.2	Series excitation motors		N/A
	Connected direct to device, if overspeeding causes a HAZARD		N/A
14.3	Overtemperature protection devices		N/A
	Devices operating in a SINGLE FAULT CONDITION	(see Form A.37)	N/A
	a) Reliable function is ensured		N/A
	b) RATED to interrupt maximum current and voltage		N/A
	c) Does not operate in NORMAL USE		N/A
	If self-resetting device used to prevent a HAZARD, protected part requires intervention before restarting		N/A
14.4	Fuse holders		N/A
	No access to HAZARDOUS LIVE parts		N/A
14.5	MAINS voltage selecting devices	No such devices	N/A
	Accidental change not possible		N/A
14.6	MAINS transformers tested outside equipment		N/A
14.7	Printed circuit boards		P
	Data shows conformity with V-1 of IEC 60695-11-10 or better; or	V-0	P
	Test shows conformity with V-1 of IEC 60695-11-10 or better		N/A
	Not applicable for printed wiring boards with limited-energy circuits (9.4)		N/A
14.8	Circuits used to limit TRANSIENT OVERVOLTAGES		N/A
	Any overvoltage limiting circuit that forms part of the equipment has adequate strength to limit likely TRANSIENT OVERVOLTAGES		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Test conducted between each pair of MAINS SUPPLY TERMINALS where overvoltage limiting circuits are present		N/A
	No ignition of OVERVOLTAGE limiting circuits components or heating of other materials to their self-ignition points		N/A
	OVERVOLTAGE limiting circuit safely suppresses the impulse and continues to function after the test		N/A
15	PROTECTION BY INTERLOCKS		N/A
15.1	Interlocks are designed to remove a HAZARD before OPERATOR exposed	No interlocks	N/A
15.2	Prevention of reactivation		N/A
15.3	Reliability		N/A
	Single fault unlikely to occur; or		N/A
	Cannot cause a HAZARD		N/A
16	HAZARDS RESULTING FROM APPLICATION		P
16.1	REASONABLY FORESEEABLE MISUSE		P
	No HAZARDS arising from settings not intended and not described in the instructions		P
	Other cases of REASONABLY FORESEEABLE MISUSE addressed by RISK assessment		P
16.2	Ergonomic aspects		P
	Factors giving rise to a HAZARD the RISK assessment is reflecting those aspects:		P
	a) limitation of body dimensions		P
	b) displays and indicators		P
	c) accessibility and conventions of controls		P
	d) arrangement of TERMINALS		P
17	RISK ASSESSMENT		N/A
	RISK assessment conducted, if HAZARD might arise and not covered by Clauses 6 to 16		N/A
	TOLERABLE RISK achieved by iterative documented process covering the following:		N/A
	a) RISK analysis		N/A
	Identifies HAZARDS and estimates RISK		N/A
	b) RISK evaluation		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Plan to judge acceptability of resulting RISK level based on the estimated severity and likelihood of a RISK		N/A
	c) RISK reduction		N/A
	Initial RISK reduced by counter measures;		N/A
	Repeated RISK evaluation without new RISKS introduced		N/A
	RISKS remaining after RISK assessment addressed in instructions to RESPONSIBLE BODY:		N/A
	Information contained how to mitigate these RISKS		N/A
	Following principles in methods of RISK reduction applied by manufacturer in given order:		N/A
	1) RISKS eliminated or reduced as far as possible		N/A
	2) Protective measures taken for RISKS that cannot be eliminated		N/A
	3) User information about residual RISK due to any defect of the protective measures		N/A
	Indication of particular training is required		N/A
	Specification of the need for personal protective equipment		N/A
	Conformity checked by evaluation of the RISK assessment documentation		N/A
ANNEX F	ROUTINE TESTS		N/A
	Manufacturer ´s declaration	See Annex 4	N/A

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Clause	Requirement — Test	Result — Remark	Verdict

4.4	TABLE: Testing in SINGLE FAULT CONDITION – Results			Form A.1.	P
Test subclause	Fault No.	Fault description	Td 4.4.3 (NOTE)	How was test terminated Comments	Meets 4.4.4
4.4.2.2	1	s/c of C1	60 min	No hazard	P
4.4.2.6	2	s/c of R4	60 min	No hazard	P

NOTE Td = Test duration in hh:mm:ss
 Record dielectric strength test on Form A.19 and temperature tests on Form A.27A and or A.27.B.
 Record in the comments column for each test whether carried out during or after SINGLE FAULT CONDITION.

Supplementary information:

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Clause	Requirement — Test			Result — Remark	Verdict	
5.3	TABLE: Durability of markings				Form A.3	P
Marking method (see NOTE)			Agent			
1) Marking Plate – laminate			A Water			
2) Method – Silver Heavy duty Laser label			B Isopropyl alcohol 70%			
3) Method – Screen printed			C (specify agent)			
4) Method – Vinyl			D (specify agent)			
5) Transparent plastic covered			E (specify agent)			
6) Aluminium plate						
NOTE – Where applicable include print method, label material, ink or paint type, fixing method, adhesive and surface to which marking is fixed.						
Marking location			Marking method (see above)			
Identification (5.1.2)			1			
MAINS supply (5.1.3)			1			
Fuses (5.1.4)			N/A			
terminals and operating devices (5.1.5.2)			N/A			
Switches and circuit breakers (5.1.6)			N/A			
Double/reinforced equipment (5.1.7)			N/A			
Field wiring Terminal boxes (5.1.8)			N/A			
Warning marking (5.2)			1			
Battery charging (13.2.2)			N/A			
Method	Test agent	Remains legible	Label loose	Curled edges	Comments	
		Verdict	Verdict	Verdict		
1	A,B	P	P	P		
Supplementary information:						

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Clause	Requirement — Test							Result — Remark					Verdict
6	TABLE: Values in NORMAL CONDITION											Form A.5	P
6.1.2	Exceptions							11.2 Cleaning and decontamination					—
6.3.1	Values in NORMAL CONDITION (see NOTE 1)							11.3 Spillage					—
6.6.2	Terminals for external circuit							11.4 Overflow					—
6.10.3	Plugs and connections												—
Item (see Form A.4)	Voltage			Current				Capacitance		10 s / 5 s test (NOTE)			Comments
	V r.m.s.	V peak	V d.c.	Test circuit A1/A2/A3	mA r.m.s.	mA peak	mA d.c.	µC	mJ	V	µC	mJ	
1	0	-	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A	
NOTE – A 10 s test is specified in 6.1.2 a) b). A. 5 s test is specified in 6.10.3. The capacitance level versus voltage below the limits given from figure 3 of IEC 61010-1.													
Supplementary information:													

IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

6.3.2	TABLE: Values in SINGLE FAULT CONDITION											Form A.6	P
Item	Subclause and	Voltage			Transient (see NOTE)		Current			Capacitance			
(see Form A.4)	fault No. (see Form A.1)	V r.m.s.	V peak	V d.c.	V	s	Test circuit A1/A2/A3	mA r.m.s.	mA peak	mA d.c.	μF (see NOTE)	Comments	
1	1-2	0	-	0	N/A	N/A			-	-	-		
									-	-	-		
									-	-	-		

NOTE – Transient voltages must be below the limits given from Figure 2 and the capacitance below the limits from figure 3 of IEC 61010-1.

Supplementary information:

* Load terminals' (9,11,13,15) accessible voltage directly dependent on the external voltage supply connected

IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

6.5.2.3	TABLE: Cross-sectional area of bonding conductors		Form A.7	N/A
Conductor location		CROSS-SECTIONAL AREA mm ²	VERDICT	
			N/A	

Supplementary information:

6.5.2.3	TABLE: Tighting torque test		Form A.8	N/A
Conductor location		Size of screw	Tighting torque Nm	Verdict

Supplementary information:

IEC 61010-1				
Clause	Requirement — Test	Result — Remark		Verdict
6.5.2.4	TABLE: Bonding impedance of plug connected equipment Form A.9			N/A
ACCESSIBLE part under test	Test current A	Voltage attained after 1 min V	Calculated resistance (Maximum 0,1 or 0,2 Ω) Ω (NOTE 1)	Verdict
NOTE 1 – For none-detachable power cord the impedance between protective conductor plug pin of MAINS cord and each ACCESSIBLE part shall not exceed 0,2 Ohm.				
Supplementary information:				
6.5.2.5	TABLE: Bonding impedance of permanently connected equipment Form A.10			N/A
ACCESSIBLE part under test	Test current A	Voltage attained after 1 min (maximum 10 V) V	Verdict	
Supplementary information:				
6.5.2.6	TABLE: Transformer PROTECTIVE BONDING screen Form A.11			N/A
ACCESSIBLE part under test	Test current (see NOTE) A	Voltage attained after 1 min (maximum 10 V) V	Calculated resistance (maximum 0,1 Ω) Ω	Verdict
NOTE – Test current must be twice the value of the over current protection means of the winding. Test is specified in 6.5.2.6 a) or b).				
Supplementary information:				

IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

6.5.4	TABLE: protective impedance	Form A.12	N/A
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A single component							
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Component	Location	Measured		Calculated	Rated		Verdict	Comments
		Working voltage V	Current A	Power dissipation W	Working voltage V	Power dissipation W		

A combination of components		
-----------------------------	--	--

Component	Location	Comments

NOTE – A PROTECTIVE IMPEDANCE shall not be a single electronic device that employs electron conduction in a vacuum, gas or semiconductor.

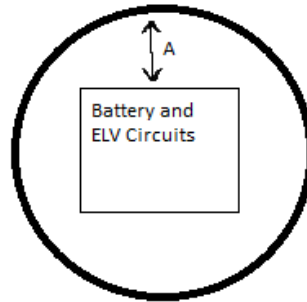
Supplementary information:

IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

6.5.6	TABLE: Current- or voltage-limiting device					Form A.13	N/A
Component	Location	Measured		Rated		Verdict	Comments
		Working voltage V	Current A	Working voltage V	Current A		
Supplementary information:							

IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

6.7	TABLE: Insulation requirements- Block diagram of system	Form A.14	P
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Pollution degree : 2	Overvoltage category: IV
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Area	Location	Insulation type	WORKING VOLTAGE			Test voltage	Comments (NOTE 3)
			RMS V	Peak V	Frequency kHz		
		(NOTE 1)				(NOTE 2) V	
A	Battery → Accessible Part	RI	3.6	3.6	0	-	

NOTE 1 – Type of insulation:
 BI = BASIC INSULATION
 DI = DOUBLE INSULATION
 PI = PROTECTIVE IMPEDANCE
 RI = Reinforced INSULATION
 SI = Supplementary INSULATION
 see also Form A.15 for further details

NOTE 2 - Types of voltage
 Peak impulse test voltage (pulse)
 r.m.s.
 d.c.
 peak

NOTE 3 - OVERVOLTAGE CATEGORIES or POLLUTION DEGREES which differ should be shown under "Comments"

Supplementary Information:

IEC 61010-1												
Clause	Requirement — Test	Result — Remark								Verdict		
6.7	TABLE: Insulation requirements- Clearances and Creepages										Form A.15	P
6.2.2	Examination	6.5.4	Protective impedance								—	
6.4.2	ENCLOSURES and protective barriers	6.5.6	Current- or voltage-limiting device								—	
6.4.4	Impedance										—	
Area	Location	Insulation type	WORKING VOLTAGE (NOTE 2)			Clearance		Creepage		CTI	Verdict	Comments
	(See Form A.14)	(NOTE 1)	RMS V	Peak V	Frequency kHz	Required mm	Measured mm	Required mm	Measured mm			
A	ELV circuits → Accessible parts	RI	3.6	-	0	-	-	-	-	-	P	
NOTE 1 – refer to Form A.14 for type of insulation shown in the insulation diagram						NOTE 2 - to be used for definition of required insulation (see Form A.14)						
Input supply voltage.....:		230 (L-N)	V	50	Hz							
Supplementary information:												
* Lowest CTI assumed												

IEC 61010-1													
Clause	Requirement — Test							Result — Remark				Verdict	
6.7	TABLE: Insulation requirements- Clearances and Creepages										Form A.16	P	
8	Mechanical resistance to shock and impact							10.5.1	Integrity of CLEARANCES and CREEPAGE distances				—
9.6.1	Overcurrent protection basic insulation between MAINS parts												—
Area	Location	Insulation type	Mechanical tests (NOTE)					Test at max. (10.5.1)	Measured after test (if required)		Verdict	Comments	
			Applied force	Rigidity (8.2)		Drop (8.3)			RATED ambient (10.5.1)	CREEPAGE DISTANCE			CLEARANCE
				N	Static (8.2.1)	Impact (8.2.2)	Normal (8.3.1)						
A	ELV circuits → Accessible parts	RI	30	30	5 J	-	-	50	N/A	N/A	P		
NOTE – Refer to Form A.19 for dielectric strength tests following the above tests.													
Supplementary information:													

IEC 61010-1						
Clause	Requirement – Test			Result — Remark		Verdict
6.7.2.2.2	TABLE: Reliability of potted components			Form A.17		N/A
Temperature Cycling Test						
Manufacturer.....:						
Type.....:						
Construction.....:						
Potting compound.....:						
CREEPAGE distances measured.....:						
CLEARANCES measured.....:						
Thickness through insulation.....:						
Adhesive test Pass/Fail.....:						
Test temperature T °C.....:						
Cycles at U= AC 500 V				Leakage current (500 V) mA		
Number of cycles	Date			68 h / 125 °C	1 h / 25 °C	2 h / 0 °C
1. Cycle from		to				
2. Cycle from		to				
3. Cycle from		to				
4. Cycle from		to				
5. Cycle from		to				
6. Cycle from		to				
7. Cycle from		to				
8. Cycle from		to				
9. Cycle from		to				
10. Cycle from		to				
After Cycling Test :						
Humidity conditioning				48 h		
Requirements for dielectric strength (s. insulation diagram)				Test voltage V r.m.s		Verdict
Basic insulation _____ V r.m.s.						
Additional insulation _____ V r.m.s.						
Reinforced insulation _____ V r.m.s.						
Supplementary information:						

IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

7.	TABLE: Protection against mechanical HAZARDS	Form A.21	P
7.3.4	Limitation of force and pressure		—
7.3.5	Gap limitations between moving parts		—

Part / Location	Clause 7.3.4		Clause 7.3.5.1								Clause 7.3.5.2			Verdict	Comments
	Continuous	Temporary	Minimum gaps (mm)								Maximum gaps (mm)				
	Contact pressure max. 50 N /cm ² @ max. 150 N	max. 250 N / 3 cm ² @ max. 0,75 s	Torso 500	Head 300	Leg 180	Foot 120	Toes 50	Arm 120	Hand 100	Finger 25	Head 120	Foot 35	Finger 4		

Supplementary information:

Moving parts contained within the equipment enclosure, there was no access to moving parts or sharp edges to the user.

IEC 61010-1			
Clause	Requirement – Test	Result – Remark	Verdict
7.3.4	RISK ASSESSMENT FOR MECHANICAL HAZARDS TO BODY PARTS	Form A.21(a)	N/A
HAZARD			
Severity	M		-
Possibility of Exposure	E ₂		-
Possibility of Avoiding the Hazard	P ₁		-
Minimum Protective Measure	A		-
Measures applied			N/A

IEC 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
8.2	ENCLOSURE rigidity test	Form A.22	P
8.2.1	Static test		P
	Material of enclosure	Metal and plastic	—
	Preparation for the test:	N/A	—
	Operated at ambient temperature	21 ° C 3 h	—
Location		Comments	Verdict
1) EUT enclosure			P
2)			
8.2.2	Dynamic test		P
	Material of enclosure	Metal and plastic	—
	Corresponding IK-code.....	Ik08	—
	Preparation for the test:	Plastic enclosure cooled	—
	Cooled to (temperature)	-25 ° C	—
Location		Comments	Verdict
1) EUT enclosure			P
2)			
8.3	Drop test		
8.3.1	Other equipment		N/A

Location		Raised up to		Comments	—
					—
					-
					-
8.3.2	Hand-held EQUIPMENT and direct plug-in equipment				N/A
	Material of enclosure		Metal / non-metallic		—
	Preparation for the test:				—
	Cooled to (temperature)		° C		—
Location				Comments	Verdict
Supplementary information:					

IEC 61010-1									
Clause	Requirement — Test	Result — Remark					Verdict		
9.3.2	TABLE: Constructional requirements	Form A.24					P		
14.7	Printed circuit boards						P		
Material tested									
Material tested		-					—		
Generic name									
Generic name		-					—		
Material manufacturer									
Material manufacturer		-					—		
Type									
Type		-					—		
Colour									
Colour		-					—		
Conditioning details.....									
Conditioning details.....		-					—		
				Sample					
				1	2	3	4	5	6
Thickness of specimen	mm								
Duration of flaming after first Application	s								
Duration of flaming plus glowing After second application	s								
Specimen burns to holding clamp	Yes/No								
Cotton ignited	Yes/No								
Sample result	Pass/Fail								
Supplementary information:									

IEC 61010-1						
Clause	Requirement — Test			Result — Remark		Verdict
10.	TABLE : Temperature Measurements				Form A.27A	P
10.1	Surface temperature limits - NORMAL CONDITION and / or SINGLE FAULT CONDITION					P
10.2	Temperature of windings- NORMAL CONDITION and / or SINGLE FAULT CONDITION					N/A
10.3	Other temperature measurements					P
Operating conditions:		Normal operating conditions				
Frequency		0 Hz	Test room ambient temperature (ta) .. :		23 °C	
Voltage		3.6 V	Test duration		480 min	
Part / Location		t_m °C	t_c °C	t_{max} °C	Verdict	Comments
Enclosure		23.7	40.7	80	P	
PCB		23.1	40.1	110	P	
Battery		23.9	40.9	85	P	
U7		23.8	40.8	105	P	
U10		23.1	40.9	105	P	
Super cap		23.2	40.2	85	P	
NOTE 1 - t_m = measured temperature $t_c = t_m$ corrected ($t_m - t_a + 40$ °C or max. RATED ambient) t_{max} = maximum permitted temperature NOTE 2 - see also 14.1 with reference to component operating conditions NOTE 3 - Record values for NORMAL CONDITION and / or SINGLE FAULT CONDITION in this Form use additional form if necessary NOTE 4 - see Form A.21B for details of winding temperature measurements						
Supplementary information:						

IEC 61010-1						
Clause	Requirement — Test			Result — Remark		Verdict
10.	TABLE : Temperature Measurements				Form A.27A	P
10.1	Surface temperature limits - NORMAL CONDITION and / or SINGLE FAULT CONDITION					P
10.2	Temperature of windings- NORMAL CONDITION and / or SINGLE FAULT CONDITION					N/A
10.3	Other temperature measurements					P
Operating conditions:		Single Fault conditions – motors stopped when energised				
Frequency		50 Hz	Test room ambient temperature (ta) .. :		23 °C	
Voltage		238 V	Test duration		480 min	
Part / Location		t_m °C	t_c °C	t_{max} °C	Verdict	Comments
Enclosure		23.7	40.7	80	P	
PCB		23.1	40.1	110	P	
Battery		23.9	40.9	85	P	
U7		23.8	40.8	105	P	
U10		23.1	40.9	105	P	
Super cap		23.2	40.2	85	P	
NOTE 1 - t_m = measured temperature t_c = t_m corrected ($t_m - t_a + 40$ °C or max. RATED ambient) t_{max} = maximum permitted temperature NOTE 2 - see also 14.1 with reference to component operating conditions NOTE 3 - Record values for NORMAL CONDITION and / or SINGLE FAULT CONDITION in this Form use additional form if necessary NOTE 4 - see Form A.21B for details of winding temperature measurements						
Supplementary information:						
Motor temperature not noted as it was behind fixed guarding and not accessible						

IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict
10.5.3	TABLE: Insulating Materials	Form A.29	N/A
10.5.3 1)	Ball pressure test		N/A
	Max. allowed impression diameter.....:	2 mm	—
Part	Test temperature °C	Impression Diameter (mm)	Verdict
Supplementary information:			
10.5.3 2)	Vicat softening test (ISO 306)	Form A.30	N/A
Part	Vicat softening temperature °C	Thickness of sample (mm)	Verdict
Supplementary information:			

IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

8	TABLE: Mechanical resistance to shock and impact	Form A.31	P
11	Protection against HAZARDS from fluids		N/A

Voltage tests can be carried out once after performing the tests of clause 8 and clause 11. However, if voltage tests are carried out separately after each set of tests, two forms can be used.

Location (see form A.14)	Clause 8 tests				Clause 11 tests				Working voltage V	Test voltage V	Verdict	Comments
	Static (8.2.1) 30 N	Impact (8.2.2)	Normal (8.3.1)	Handheld Plug-in	Cleaning (11.2)	Spillage (11.3)	Overflow (11.4)	IEC 60529 (11.6)				
EUT Enclosure	P	P	P	N/A	N/A	N/A	N/A	N/A	5	-	P	

NOTE – Use r.m.s., d.c. or peak to indicate the used test voltage.

Supplementary information:

IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

11.7.2	TABLE: Leakage and rupture at high pressure	Form A.32	N/A
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Part	Maximum permissible working pressure Mpa	Test pressure MPa	Leakage Yes / No	Deformation Yes / No	Burst Yes / No	Comments

NOTE – see also Annex G with requirements for USA and Canada.
 Supplementary information:

11.7.3	Leakage from low-pressure parts	Form A.33	N/A
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Part	Test pressure Mpa	Leakage Yes / No	Comments

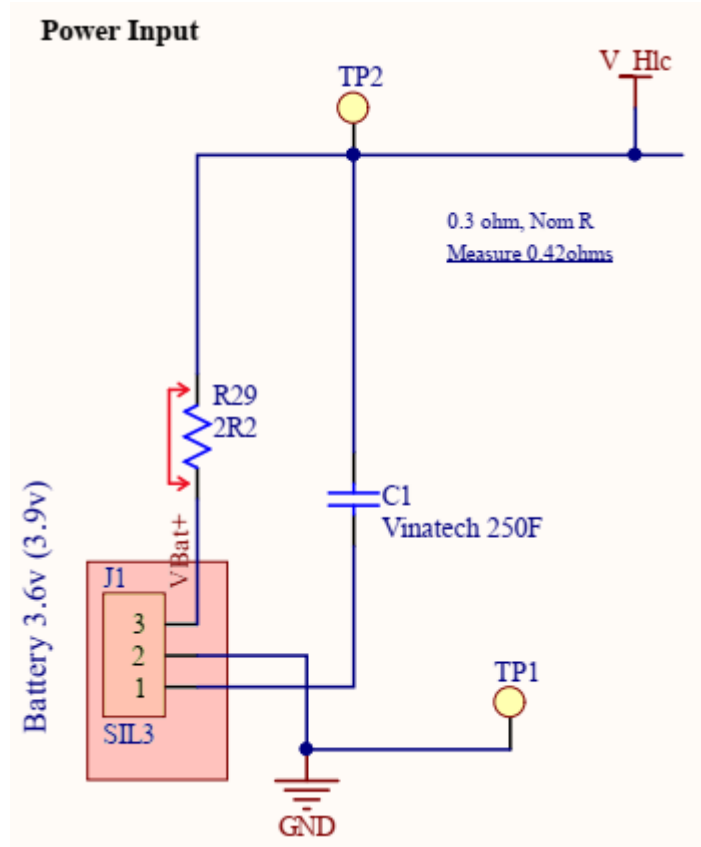
Supplementary information:

IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict
12.2.1	TABLE: Ionizing radiation	Form A 34	N/A
12.2.1.2	Equipment intended to emit radiation		
Locations tested	Measured values μSv/h	Verdict	Comments
Supplementary information:			
12.2.1.3	Equipment not intended to emit radiation		N/A
	Max. allowed effective dose rate at 100 mm.....:	1 μSv/h	—
Locations tested	Measured values μSv/h	Verdict	Comments
Supplementary information:			

IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict
12.5.1	TABLE: Sound level	Form A.35	P
	Locations tested	Measured maximum sound pressure level dBA	Calculated maximum sound power level
	At operator's normal position and at bystanders' positions		
	a) At operator position	< 70 dB(A)	
	b)		
	c)		
	d)		
	e)		
	f)		
Supplementary information:			
12.5.2	Ultrasonic pressure		N/A
	Locations tested	Measured values	Comments
		dB kHz	
	At operator's normal position		
	At 1 m from the ENCLOSURE		
	a)		
	b)		
	c)		
	d)		
	e)		
NOTE – No limit is specified at present, but a limit of 110 dB above the reference pressure value of 20 µPa is under consideration for applicable frequencies between 20 kHz and 100 kHz.			
Supplementary information:			

IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

13.2.2	TABLE: Batteries	Form A.36.	P
	Battery load and charging circuit diagram:		



Battery type	Lithium-thionyl Chloride (Li-SOCI2)	—
Battery manufacturer/model/catalogue No.....	EVE	—
Battery ratings	3.6 V, 3.6 Ah	—
Reverse polarity instalment test		N/A

Component	Verdict	
	Open circuit	Short circuit
C1	-	Pass

IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict
13.2.2	TABLE: Batteries	Form A.36.	P
	Battery load and charging circuit diagram:		
Supplementary information:			

IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict
4.4.2.7	TABLE: MAINS transformer - Tx1, Tx2	Form A.38	N/A
4.4.2.7.2	Short circuit		N/A
14.6	MAINS transformers tested outside equipment		N/A
Type	Laminated Core		—
Manufacturer			—
Test in equipment			N/A
Test on bench			N/A
Test repeated inside equipment (see 14.6)			N/A
Optional – Insulation class (IEC 60085) of the lowest rated winding.....	A		—
Winding identification			
Type of Protector for winding (NOTE 1)			
Elapsed time			
Current, A primary			
secondary			
Winding temperature, °C primary			
(see NOTE 2) secondary			
Tissue paper / cheesecloth OK ? (Pass / Fail)			
Voltage tests (see NOTE 3)			
Primary to secondary	- V Ac		
Primary to core	- V ac		
Secondary to secondary	- V ac		
Secondary to core	- V ac		
Verdict			
NOTE 1:	Primary fuse - PF / () A Secondary fuse - SF / () A Overtemperature protection - OP / () °C Impedance protection - Z		
NOTE 2:	Indicate method of measurement TC = with thermocouple R = resistance method		
NOTE 3:	If resistance method is used, record resistance in cold and warm condition in FormA.27B! Record the voltage applied and the type of voltage (r.m.s. / d.c. / peak) and for results use NB = no breakdown or B = breakdown		
Supplementary information:			

IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict
4.4.2.7	TABLE: MAINS transformer – Tx1, Tx2	Form A.39	N/A
4.4.2.7.3	Overload tests (for MAINS transformers)		N/A
14.6	MAINS transformers tested outside equipment		N/A
Type	Laminated Core		—
Manufacturer			—
Test in equipment			N/A
Test on bench			N/A
Test repeated inside equipment (see 14.6)			N/A
Optional – Insulation class (IEC 60085) of the lowest rated winding		-	—
Winding identification	-		
Type of Protector for winding (NOTE 1)	-		
Elapsed time	-		
Current, A primary	-		
secondary	-		
Winding temperature, °C primary	-		
(see NOTE 2) secondary	-		
Tissue paper / cheesecloth OK ? (Pass / Fail)	-		
Voltage tests (see NOTE 3)	-		
Primary to secondary	- V rms	-	
Primary to core	- V rms	-	
Secondary to secondary	- V rms	-	
Secondary to core	- V rms	-	
Verdict			
NOTE 1:	Primary fuse	- PF / () A	
	Secondary fuse	- SF / () A	
	Overtemperature protection	- OP / () °C	
	Impedance protection	- Z	
NOTE 2:	Indicate method of measurement	TC = with thermocouple R = resistance method	
NOTE 3:	If resistance method is used, record resistance in cold and warm condition in FormA.27B! Record the voltage applied and the type of voltage (r.m.s. / d.c. / peak) and for results use NB = no breakdown or B = breakdown		
Supplementary information:			

IEC 61010-1											
Clause		Requirement – Test				Result — Remark				Verdict	
Annex H		TABLE: Qualification of conformal coating for protection against pollution						Form A.41		N/A	
Technical properties											
Manufacturer										—	
Type										—	
Meet requirements of ANSI / UL 746E		[yes / no]									
Manufacturer declaration of coating material		[yes / no]									
Operating temperature of coating		[] °C									
Comparative tracking index (CTI)		[]									
Insulation resistance		[] Ω									
Dielectric strength		[] V									
UV resistance (if required)		[yes / no]									
Flammability rating											
Preparation of the test specimens conducted		[yes / no]									
Item	Test conditioning	Parameter	Td h	Samples						Verdict	Comments
				1	2	3	4	5	6		
1	Cold										
2	Dry heat										
3	Rapid temp. change										
4	Damp heat										
5	Adhesion of coating	5 N									
6	Humidity										
7	Insulation resistance	>= 100 Ω									
	Scratch Resistance										
	Conditioning of test specimens										
	Mechanical and electrical tests after conditioning										
NOTE Td = Test duration time											
Supplementary information:											

IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

Annex 2: Component Data

TABLE: 1 - List of components and circuits relied on for safety							P
Unique component reference or location	Application/function	Manufacturer / trademark (NOTE 1)	Type / model	Technical data (NOTE 2)	Standard	Mark(s) of conformity evidence of acceptance (NOTE 3 and 4)	
Enclosure	Housing	Nan Ya Plastics	Polybuthelene Theraphthalate	V-0	UL94	UL – E130155	
PCB	Circuit layout	Nan Ya Plastics	FR-PP 3307 ANC1	V-0, 165 °C melting point	UL94	UL – E130155	
Battery	Power	Eve	ER17505	3.6V, 3.6 Ah	IEC 86-4 EN 50020	MH28717	
U7	Voltage Regulator	ST Electronics	STLQ015	1.5-5.5 Vin, 150 mA	EN 61010-1	Tested in application	
						Tested in application	
→ 2 May include electrical, mechanical values → 3 List licence no or method of acceptance							

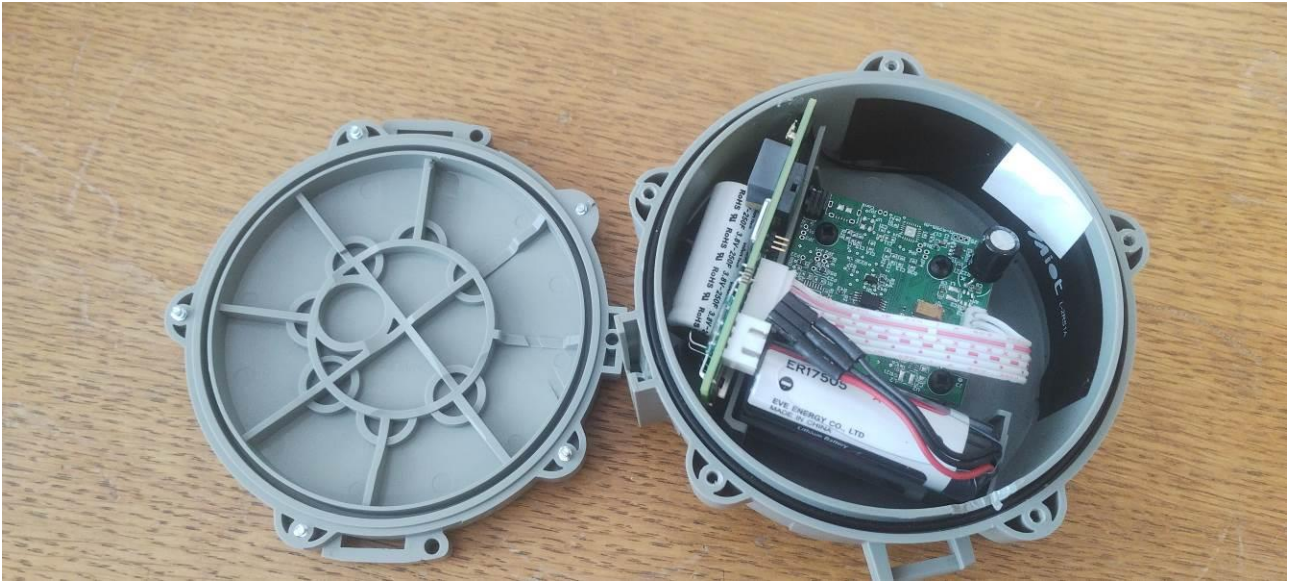
Annex 3: Photography



Top of EUT



Bottom of EUT



Enclosure opened



Batteries



Front of comms and power PCB

n

Back of comms and power PCB



RADAR PCB