

	<b>Test Report issued under the responsibility of:</b> NCB TÜV SÜD Product Service GmbH Ridlerstr. 65, 80339 Munich Germany	
<b>TEST REPORT</b> <b>IEC 60950-1</b> <b>Information technology equipment – Safety –</b> <b>Part 1: General requirements</b>		
<b>Report Number..... :</b> PTI-1411085-000 <b>Date of issue..... :</b> 2014/11/25 <b>Total number of pages..... :</b> 49		
<b>Applicant's name..... :</b> Hart InterCivic <b>Address..... :</b> 15500 Wells Port Drive Austin, TX 78728		
<b>Test specification:</b> <b>Standard..... :</b> IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013 <b>Test procedure..... :</b> CB Scheme <b>Non-standard test method..... :</b> N/A		
<b>Test Report Form No..... :</b> IEC60950_1F <b>Test Report Form(s) Originator..... :</b> SGS Fimko Ltd <b>Master TRF..... :</b> Dated 2014-02 <b>Copyright © 2014 IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (IECEE System). All rights reserved.</b> This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. <b>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.</b>		
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<b>Test item description</b> .....	Verity Voting devices, (Verity Scan, Verity Touch Writer, Verity Ballot Box, Verity Standard and Verity Accessible Booths)	
<b>Trade Mark</b> .....		
<b>Manufacturer</b> .....	Hart InterCivic	
<b>Model/Type reference</b> .....	3005350,3005352,3005357,3005358 and 3005359	
<b>Ratings</b> .....	+24 V d.c.; 2.4 A (Verity input)	
<b>Testing procedure and testing location:</b>		
<input checked="" type="checkbox"/>	<b>Testing Laboratory:</b>	<b>Professional Testing Inc.</b>
	<b>Testing location/ address</b> .....	1601 N. A. W. Grimes, Suite B, Round Rock, Texas, 78665, USA
<input type="checkbox"/>	<b>Associated Testing Laboratory:</b>	
	<b>Testing location/ address</b> .....	
	<b>Tested by (name + signature)</b> .....	Deniz Kozdereli 
	<b>Approved by (name + signature)</b> .....	
<input type="checkbox"/>	<b>Testing procedure: Elsewhere:</b>	
	<b>Testing location/ address</b> .....	
	<b>Tested by (name + signature)</b> .....	
	<b>Approved by (name + signature)</b> .....	

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

Attachment 1 – US National Deviation (6)

Attachment 2 – Canada National Deviation (5)

Attachment 3 – Photographs (6)

Attachment 4 – Verity Electronics Specification 4005461 (37)

Attachment 5 – Verity Operational Guide 6640001 (68)


Attachment 6 – Verity Polling Place Operations Technical Reference manual 6610-100 (101)

Attachment 7 – Verity Service and Maintenance Technical Reference Manual 6610-001 (183)

**Summary of testing:**

1.5.2 Evaluation and testing of components	Components were either separately approved devices or were tested as part of the unit.
1.6.2 Input current	The equipment is a Class III device which is powered by a separately approved external limited power source (LPS). The LPS shall provide a nominal output voltage of +24Vd.c. Equipment was tested with a fluctuation in the dc voltage.
1.7.2 Language	The instructions and product marking shall be in a language acceptable to the country in which the equipment is sold. The US English version was reviewed.
4.1 Stability	The mechanical stability tests were completed assuming normal usage. Verity Touch Writer was locked on to either the Standard Booth or the Accessible Booth and Verity Scan was locked on to the Ballot Box.
4.2.3;4.2.4 Steady force	The steady force tests were completed on the Verity Touch Writer, Verity Scan and the Verity tablet.
4.2.5 Impact	The impact test was completed on the Verity Touch Writer and Verity Scan.
4.2.6 Drop test	The units are not transportable by the operator/voter. The equipment is moved and set up by trained personnel.
4.3.8 Batteries	The tablet has a battery pack that has been previously and separately approved. Report Reference: MH29443-20130906/UL File MH29443) The battery is within the tablet and is operator accessible. The battery connector is keyed to avoid improper installation. The battery is not charged while installed in the tablets. They are charged in a separate device that is not included with this evaluation.
4.5 Thermal Requirements	The equipment is specified for operation in a maximum ambient temperature of 35°C.

<b>Tests performed (name of test and test clause):</b> 1.6.2 Input current 1.7.11 Marking durability 4.1 Mechanicals 4.3.2 Handles 4.5 Thermals 5.3 Abnormal operating conditions	<b>Testing location:</b> Professional Testing (EMI) Inc. 1601 N. A.W. Grimes, Suite B Round Rock, Texas, 78665, USA
<b>Summary of compliance with National Differences:</b> <b>List of countries addressed</b> USA, Canada  <input checked="" type="checkbox"/> The product fulfils the requirements of IEC 60950-1:2005.	

<b>Copy of marking plate:</b> The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective Certification Bodies that own these marks.
 <p>Trademark</p>
 <p>Verity Scan Label</p>



Verity Touch Writer Label



Verity Scan input ratings



Verity Touch Writer input ratings




Tablet Battery label

<b>Test item particulars .....</b>	
<b>Equipment mobility.....</b>	<input checked="" type="checkbox"/> movable <input type="checkbox"/> hand-held <input checked="" type="checkbox"/> transportable <input type="checkbox"/> stationary <input type="checkbox"/> for building-in <input type="checkbox"/> direct plug-in
<b>Connection to the mains.....</b>	<input type="checkbox"/> pluggable equipment <input type="checkbox"/> type A <input type="checkbox"/> type B <input type="checkbox"/> permanent connection <input type="checkbox"/> detachable power supply cord <input type="checkbox"/> non-detachable power supply cord <input checked="" type="checkbox"/> not directly connected to the mains
<b>Operating condition.....</b>	<input checked="" type="checkbox"/> continuous <input type="checkbox"/> rated operating / resting time:
<b>Access location .....</b>	<input checked="" type="checkbox"/> operator accessible <input type="checkbox"/> restricted access location
<b>Over voltage category (OVC) .....</b>	<input type="checkbox"/> OVC I <input type="checkbox"/> OVC II <input type="checkbox"/> OVC III <input type="checkbox"/> OVC IV <input checked="" type="checkbox"/> other:
<b>Mains supply tolerance (%) or absolute mains supply values .....</b>	Equipment is not directly connected to the mains. Powered by external power supply. (output has +/- 5%)
<b>Tested for IT power systems .....</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>IT testing, phase-phase voltage (V) .....</b>	N/A
<b>Class of equipment .....</b>	<input type="checkbox"/> Class I <input type="checkbox"/> Class II <input checked="" type="checkbox"/> Class III <input type="checkbox"/> Not classified
<b>Considered current rating of protective device as part of the building installation (A) .....</b>	N/A
<b>Pollution degree (PD) .....</b>	<input type="checkbox"/> PD 1 <input checked="" type="checkbox"/> PD 2 <input type="checkbox"/> PD 3
<b>IP protection class .....</b>	IPX0
<b>Altitude during operation (m) .....</b>	<3200m
<b>Altitude of test laboratory (m) .....</b>	225m
<b>Mass of equipment (kg) .....</b>	Verity Scan 10.8kg; Verity Touch Writer 10.6kg; Ballot box 11kg; Tablet 2.6kg
<b>Possible test case verdicts:</b>	
- 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)
<b>Testing.....</b>	
<b>Date of receipt of test item .....</b>	2014/02/04; 2014/11/04
<b>Date (s) of performance of tests .....</b>	2014/02/10 – 2014/02/14; 2014/11/04-2014/11/17

<b>General remarks:</b>			
<p>"(See Enclosure #)" refers to additional information appended to the report.          "(See appended table)" refers to a table appended to the report.</p> <p>Throughout this report a <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.</p>			
<b>When differences exist; they shall be identified in the General product information section.</b>			
<p><b>Name and address of factory (ies).....:</b> TS3 Technology, Inc.          4855 Alpine Drive          Stafford, TX 77477</p> <p>TS3 Technology, Inc.          1870 General George Patton Drive          Franklin, TN USA 37067</p>			
<b>General product information:</b>			
<p>The Verity is a voting system that includes voting devices and components that have features for scanning paper ballots, as well as an external device for voters with disabilities. The Verity voting devices that contain electrical components are the Verity Scan (3005350) and the Verity Touch Writer (3005352). If ballots have contents that are marked incorrectly, the Verity Scan will display instruction messages so that voters have an opportunity to correct mismarks before casting the ballot. Once ballots are cast through the ballot feed slot, they drop into the secure ballot box for storage. The Verity Touch Writer is a touch screen ballot marking device that prints voter's ballots to a commercial off the shelf printer. The Verity Access is an interface component with tactile buttons, audio ballot voting and compatibility with additional two-switch adaptive devices.</p> <p>The Verity Scan and Touch Writer are powered with a separately approved external LPS (Limited power sources) that is provided with the unit. The LPS supplies +24V d.c. power to the Verity system. There is an internally mounted battery pack (separately approved) within the tablet that can be used for back-up power for up to 2 hours or when allowing access to voters with disabilities.</p> <p>There are no primary circuits internal to the Verity Scan and Touch Writer devices. All internal components are powered by non-hazardous energy. Scan and Touch Writer contain the same basic PCB assembly with minor variations.</p> <p>The Ballot Box, Standard and Accessible Booths, 3005357, 3005358 and 3005359 do not have electronics. They will be utilized when completing the mechanical testing of the devices.</p>			
<b>Abbreviations used in the report:</b>			
- normal conditions	<b>N.C.</b>	- single fault conditions	<b>S.F.C</b>
- functional insulation	<b>OP</b>	- basic insulation	<b>BI</b>
- double insulation	<b>DI</b>	- supplementary insulation	<b>SI</b>
- between parts of opposite polarity	<b>BOP</b>	- reinforced insulation	<b>RI</b>
<b>Indicate used abbreviations (if any)</b>			



<b>IEC 60950-1</b>			
Clause	Requirement + Test	Result - Remark	Verdict
<b>1</b>	<b>GENERAL</b>		<b>P</b>
<b>1.5</b>	<b>Components</b>		<b>P</b>
1.5.1	General		<b>P</b>
	Comply with IEC 60950-1 or relevant component standard	(see appended tables 1.5.1)	<b>P</b>
1.5.2	Evaluation and testing of components	All components are used within their ratings and comply with the applicable parts of this standard and/or a relevant component standard.	<b>P</b>
1.5.3	Thermal controls	No thermal controls.	<b>N/A</b>
1.5.4	Transformers	No isolating transformers used in this equipment.	<b>N/A</b>
1.5.5	Interconnecting cables		<b>N/A</b>
1.5.6	Capacitors bridging insulation		<b>N/A</b>
1.5.7	Resistors bridging insulation		<b>N/A</b>
1.5.7.1	Resistors bridging functional, basic or supplementary insulation		<b>N/A</b>
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits		<b>N/A</b>
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable		<b>N/A</b>
1.5.8	Components in equipment for IT power systems		<b>N/A</b>
1.5.9	Surge suppressors		<b>N/A</b>
1.5.9.1	General		<b>N/A</b>
1.5.9.2	Protection of VDRs		<b>N/A</b>
1.5.9.3	Bridging of functional insulation by a VDR		<b>N/A</b>
1.5.9.4	Bridging of basic insulation by a VDR		<b>N/A</b>
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR		<b>N/A</b>
<b>1.6</b>	<b>Power interface</b>		<b>P</b>
1.6.1	AC power distribution systems	Class III device.	<b>N/A</b>
1.6.2	Input current	(see appended table 1.6.2)	<b>P</b>
1.6.3	Voltage limit of hand-held equipment		<b>N/A</b>
1.6.4	Neutral conductor		<b>N/A</b>

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
<b>1.7</b>	<b>Marking and instructions</b>		<b>P</b>
1.7.1	Power rating and identification markings		<b>P</b>
1.7.1.1	Power rating marking		<b>P</b>
	Multiple mains supply connections.....:	No multiple mains supply connections.	<b>N/A</b>
	Rated voltage(s) or voltage range(s) (V) .....	24 V d.c.	<b>P</b>
	Symbol for nature of supply, for d.c. only .....		<b>P</b>
	Rated frequency or rated frequency range (Hz) ...:		<b>N/A</b>
	Rated current (mA or A) .....	2.4 A.	<b>P</b>
1.7.1.2	Identification markings		<b>P</b>
	Manufacturer's name or trade-mark or identification mark .....		<b>P</b>
	Model identification or type reference .....	3005350,3005352,3005357,3005358 and 3005359.	<b>P</b>
	Symbol for Class II equipment only .....	Not Class II equipment.	<b>N/A</b>
	Other markings and symbols .....		<b>N/A</b>
1.7.1.3	Use of graphical symbols		<b>N/A</b>
1.7.2	Safety instructions and marking	Operating instructions are provided for the user.	<b>P</b>
1.7.2.1	General		<b>P</b>
1.7.2.2	Disconnect devices	The separately approved PS will be considered the disconnect device.	<b>P</b>
1.7.2.3	Overcurrent protective device		<b>N/A</b>
1.7.2.4	IT power distribution systems	No connection to IT power distribution systems.	<b>N/A</b>
1.7.2.5	Operator access with a tool		<b>N/A</b>
1.7.2.6	Ozone	Equipment does not produce ozone.	<b>N/A</b>
1.7.3	Short duty cycles		<b>N/A</b>
1.7.4	Supply voltage adjustment .....		<b>N/A</b>
	Methods and means of adjustment; reference to installation instructions .....		<b>N/A</b>
1.7.5	Power outlets on the equipment .....	No power outlets.	<b>N/A</b>
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference) .....		<b>N/A</b>
1.7.7	Wiring terminals	No wiring terminals.	<b>N/A</b>

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Clause	Requirement + Test	Result - Remark	Verdict
1.7.7.1	Protective earthing and bonding terminals .....		N/A
1.7.7.2	Terminals for a.c. mains supply conductors		N/A
1.7.7.3	Terminals for d.c. mains supply conductors		N/A
1.7.8	Controls and indicators		N/A
1.7.8.1	Identification, location and marking .....		N/A
1.7.8.2	Colours .....		N/A
1.7.8.3	Symbols according to IEC 60417 .....		N/A
1.7.8.4	Markings using figures .....		N/A
1.7.9	Isolation of multiple power sources .....		N/A
1.7.10	Thermostats and other regulating devices .....		N/A
1.7.11	Durability		N/A
1.7.12	Removable parts		N/A
1.7.13	Replaceable batteries .....	Lithium battery for real time clock (RTC) and battery pack are not located in operator access area. The replaceable battery found in the tablet is a separately approved device.	N/A
	Language(s) .....		—
1.7.14	Equipment for restricted access locations .....	Equipment not intended for installation in RAL.	N/A
<b>2</b>	<b>PROTECTION FROM HAZARDS</b>		<b>P</b>
<b>2.1</b>	<b>Protection from electric shock and energy hazards</b>		<b>N/A</b>
2.1.1	Protection in operator access areas	No energy hazards; Class III equipment has SELV circuits only.	N/A
2.1.1.1	Access to energized parts		N/A
	Test by inspection .....		N/A
	Test with test finger (Figure 2A) .....		N/A
	Test with test pin (Figure 2B) .....		N/A
	Test with test probe (Figure 2C) .....		N/A
2.1.1.2	Battery compartments		N/A
2.1.1.3	Access to ELV wiring		N/A
	Working voltage ( $V_{peak}$ or $V_{rms}$ ); minimum distance through insulation (mm)		—
2.1.1.4	Access to hazardous voltage circuit wiring		N/A
2.1.1.5	Energy hazards .....		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
2.1.1.6	Manual controls		N/A
2.1.1.7	Discharge of capacitors in equipment		N/A
	Measured voltage (V); time-constant (s) .....		—
2.1.1.8	Energy hazards – d.c. mains supply		N/A
	a) Capacitor connected to the d.c. mains supply ..		N/A
	b) Internal battery connected to the d.c. mains supply ..		N/A
2.1.1.9	Audio amplifiers .....		N/A
2.1.2	Protection in service access areas		N/A
2.1.3	Protection in restricted access locations		N/A

<b>2.2</b>	<b>SELV circuits</b>		<b>P</b>
2.2.1	General requirements	SELV limits are not exceeded in normal or single fault conditions.	<b>P</b>
2.2.2	Voltages under normal conditions (V) .....	Within SELV limits.	<b>P</b>
2.2.3	Voltages under fault conditions (V) .....	Within SELV limits.	<b>P</b>
2.2.4	Connection of SELV circuits to other circuits .....	SELV circuits are only connected to SELV circuits.	<b>P</b>

<b>2.3</b>	<b>TNV circuits</b>		<b>N/A</b>
2.3.1	Limits	No TNV circuits.	<b>N/A</b>
	Type of TNV circuits .....		—
2.3.2	Separation from other circuits and from accessible parts		<b>N/A</b>
2.3.2.1	General requirements		<b>N/A</b>
2.3.2.2	Protection by basic insulation		<b>N/A</b>
2.3.2.3	Protection by earthing		<b>N/A</b>
2.3.2.4	Protection by other constructions .....		<b>N/A</b>
2.3.3	Separation from hazardous voltages		<b>N/A</b>
	Insulation employed.....		—
2.3.4	Connection of TNV circuits to other circuits		<b>N/A</b>
	Insulation employed.....		—
2.3.5	Test for operating voltages generated externally		<b>N/A</b>

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Clause	Requirement + Test	Result - Remark	Verdict

<b>2.4</b>	<b>Limited current circuits</b>		<b>N/A</b>
2.4.1	General requirements	No limited current circuits.	<b>N/A</b>
2.4.2	Limit values		<b>N/A</b>
	Frequency (Hz).....:		—
	Measured current (mA).....:		—
	Measured voltage (V) .....		—
	Measured circuit capacitance (nF or $\mu$ F) .....		—
2.4.3	Connection of limited current circuits to other circuits		<b>N/A</b>

<b>2.5</b>	<b>Limited power sources</b>		<b>N/A</b>
	a) Inherently limited output	No such outputs.	<b>N/A</b>
	b) Impedance limited output		<b>N/A</b>
	c) Regulating network or IC current limiter, limits output under normal operating and single fault condition		<b>N/A</b>
	Use of integrated circuit (IC) current limiters		<b>N/A</b>
	d) Overcurrent protective device limited output		<b>N/A</b>
	Max. output voltage (V), max. output current (A), max. apparent power (VA)..... :		—
	Current rating of overcurrent protective device (A) .:		—

<b>2.6</b>	<b>Provisions for earthing and bonding</b>		<b>N/A</b>
2.6.1	Protective earthing	Class III device.	<b>N/A</b>
2.6.2	Functional earthing	Class III device.	<b>N/A</b>
	Use of symbol for functional earthing .....		<b>N/A</b>
2.6.3	Protective earthing and protective bonding conductors		<b>N/A</b>
2.6.3.1	General		<b>N/A</b>
2.6.3.2	Size of protective earthing conductors		<b>N/A</b>
	Rated current (A), cross-sectional area ( $\text{mm}^2$ ), AWG..... :		—
2.6.3.3	Size of protective bonding conductors		<b>N/A</b>
	Rated current (A), cross-sectional area ( $\text{mm}^2$ ), AWG..... :		—
	Protective current rating (A), cross-sectional area ( $\text{mm}^2$ ), AWG .....		—

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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)..... :		N/A
2.6.3.5	Colour of insulation..... :		N/A
2.6.4	Terminals		N/A
2.6.4.1	General	Class III device.	N/A
2.6.4.2	Protective earthing and bonding terminals		N/A
	Rated current (A), type, nominal thread diameter (mm)..... :		—
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors		N/A
2.6.5	Integrity of protective earthing		N/A
2.6.5.1	Interconnection of equipment		N/A
2.6.5.2	Components in protective earthing conductors and protective bonding conductors		N/A
2.6.5.3	Disconnection of protective earth		N/A
2.6.5.4	Parts that can be removed by an operator		N/A
2.6.5.5	Parts removed during servicing		N/A
2.6.5.6	Corrosion resistance		N/A
2.6.5.7	Screws for protective bonding		N/A
2.6.5.8	Reliance on telecommunication network or cable distribution system		N/A
<b>2.7</b>	<b>Overcurrent and earth fault protection in primary circuits</b>		N/A
2.7.1	Basic requirements	No primary circuits.	N/A
	Instructions when protection relies on building installation		N/A
2.7.2	Faults not simulated in 5.3.7		N/A
2.7.3	Short-circuit backup protection		N/A
2.7.4	Number and location of protective devices .....		N/A
2.7.5	Protection by several devices		N/A
2.7.6	Warning to service personnel .....		N/A
<b>2.8</b>	<b>Safety interlocks</b>		N/A
2.8.1	General principles	No safety interlocks.	N/A
2.8.2	Protection requirements		N/A
2.8.3	Inadvertent reactivation		N/A
2.8.4	Fail-safe operation		N/A
	Protection against extreme hazard		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
2.8.5	Moving parts		N/A
2.8.6	Overriding		N/A
2.8.7	Switches, relays and their related circuits		N/A
2.8.7.1	Separation distances for contact gaps and their related circuits (mm) .....		N/A
2.8.7.2	Overload test		N/A
2.8.7.3	Endurance test		N/A
2.8.7.4	Electric strength test		N/A
2.8.8	Mechanical actuators		N/A
<b>2.9</b>	<b>Electrical insulation</b>		<b>P</b>
2.9.1	Properties of insulating materials	No rubber, asbestos, or hygroscopic materials used.	P
2.9.2	Humidity conditioning		N/A
	Relative humidity (%), temperature (°C) .....		—
2.9.3	Grade of insulation	Functional insulation only.	P
2.9.4	Separation from hazardous voltages	Class III device.	N/A
	Method(s) used .....		—
<b>2.10</b>	<b>Clearances, creepage distances and distances through insulation</b>		<b>N/A</b>
2.10.1	General	Class III device.	N/A
2.10.1.1	Frequency .....		N/A
2.10.1.2	Pollution degrees .....		N/A
2.10.1.3	Reduced values for functional insulation		N/A
2.10.1.4	Intervening unconnected conductive parts		N/A
2.10.1.5	Insulation with varying dimensions		N/A
2.10.1.6	Special separation requirements		N/A
2.10.1.7	Insulation in circuits generating starting pulses		N/A
2.10.2	Determination of working voltage		N/A
2.10.2.1	General		N/A
2.10.2.2	RMS working voltage		N/A
2.10.2.3	Peak working voltage		N/A
2.10.3	Clearances	Class III device.	N/A
2.10.3.1	General		N/A
2.10.3.2	Mains transient voltages		N/A
	a) AC mains supply .....		N/A
	b) Earthed d.c. mains supplies .....		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	c) Unearthed d.c. mains supplies .....		N/A
	d) Battery operation .....		N/A
2.10.3.3	Clearances in primary circuits		N/A
2.10.3.4	Clearances in secondary circuits		N/A
2.10.3.5	Clearances in circuits having starting pulses		N/A
2.10.3.6	Transients from a.c. mains supply .....		N/A
2.10.3.7	Transients from d.c. mains supply .....		N/A
2.10.3.8	Transients from telecommunication networks and cable distribution systems .....		N/A
2.10.3.9	Measurement of transient voltage levels		N/A
	a) Transients from a mains supply		N/A
	For an a.c. mains supply .....		N/A
	For a d.c. mains supply .....		N/A
	b) Transients from a telecommunication network :		N/A
2.10.4	Creepage distances	Class III device.	N/A
2.10.4.1	General		N/A
2.10.4.2	Material group and comparative tracking index		N/A
	CTI tests .....		—
2.10.4.3	Minimum creepage distances		N/A
2.10.5	Solid insulation	Class III device.	N/A
2.10.5.1	General		N/A
2.10.5.2	Distances through insulation		N/A
2.10.5.3	Insulating compound as solid insulation		N/A
2.10.5.4	Semiconductor devices		N/A
2.10.5.5	Cemented joints		N/A
2.10.5.6	Thin sheet material – General		N/A
2.10.5.7	Separable thin sheet material		N/A
	Number of layers (pcs) .....		—
2.10.5.8	Non-separable thin sheet material		N/A
2.10.5.9	Thin sheet material – standard test procedure		N/A
	Electric strength test		—
2.10.5.10	Thin sheet material – alternative test procedure		N/A
	Electric strength test		—
2.10.5.11	Insulation in wound components		N/A
2.10.5.12	Wire in wound components		N/A
	Working voltage .....		N/A
	a) Basic insulation not under stress .....		N/A



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<b>Clause</b>	<b>Requirement + Test</b>	<b>Result - Remark</b>	<b>Verdict</b>
	b) Basic, supplementary, reinforced insulation .....		<b>N/A</b>
	c) Compliance with Annex U .....		<b>N/A</b>
	Two wires in contact inside wound component; angle between 45° and 90° .....		<b>N/A</b>
2.10.5.13	Wire with solvent-based enamel in wound components		<b>N/A</b>
	Electric strength test		—
	Routine test		<b>N/A</b>
2.10.5.14	Additional insulation in wound components		<b>N/A</b>
	Working voltage .....		<b>N/A</b>
	- Basic insulation not under stress .....		<b>N/A</b>
	- Supplementary, reinforced insulation .....		<b>N/A</b>
2.10.6	Construction of printed boards	<b>Class III device.</b>	<b>N/A</b>
2.10.6.1	Uncoated printed boards		<b>N/A</b>
2.10.6.2	Coated printed boards		<b>N/A</b>
2.10.6.3	Insulation between conductors on the same inner surface of a printed board		<b>N/A</b>
2.10.6.4	Insulation between conductors on different layers of a printed board		<b>N/A</b>
	Distance through insulation		<b>N/A</b>
	Number of insulation layers (pcs) .....		<b>N/A</b>
2.10.7	Component external terminations	<b>No external terminations.</b>	<b>N/A</b>
2.10.8	Tests on coated printed boards and coated components		<b>N/A</b>
2.10.8.1	Sample preparation and preliminary inspection		<b>N/A</b>
2.10.8.2	Thermal conditioning		<b>N/A</b>
2.10.8.3	Electric strength test		<b>N/A</b>
2.10.8.4	Abrasion resistance test		<b>N/A</b>
2.10.9	Thermal cycling		<b>N/A</b>
2.10.10	Test for Pollution Degree 1 environment and insulating compound		<b>N/A</b>
2.10.11	Tests for semiconductor devices and cemented joints		<b>N/A</b>
2.10.12	Enclosed and sealed parts		<b>N/A</b>
<b>3</b>	<b>WIRING, CONNECTIONS AND SUPPLY</b>		<b>P</b>
<b>3.1</b>	<b>General</b>		<b>P</b>
3.1.1	Current rating and overcurrent protection		<b>P</b>

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Clause	Requirement + Test	Result - Remark	Verdict
3.1.2	Protection against mechanical damage	Wireways are smooth and free from sharp edges.	<b>P</b>
3.1.3	Securing of internal wiring		<b>P</b>
3.1.4	Insulation of conductors		<b>P</b>
3.1.5	Beads and ceramic insulators		<b>N/A</b>
3.1.6	Screws for electrical contact pressure		<b>N/A</b>
3.1.7	Insulating materials in electrical connections		<b>N/A</b>
3.1.8	Self-tapping and spaced thread screws		<b>N/A</b>
3.1.9	Termination of conductors		<b>N/A</b>
	10 N pull test		<b>N/A</b>
3.1.10	Sleeving on wiring		<b>N/A</b>
<b>3.2</b>	<b>Connection to a mains supply</b>		<b>N/A</b>
3.2.1	Means of connection	Connected to separately approved power adaptor.	<b>N/A</b>
3.2.1.1	Connection to an a.c. mains supply		<b>N/A</b>
3.2.1.2	Connection to a d.c. mains supply		<b>N/A</b>
3.2.2	Multiple supply connections	Equipment does not have multiple supply connections.	<b>N/A</b>
3.2.3	Permanently connected equipment	Equipment is not permanently connected.	<b>N/A</b>
	Number of conductors, diameter of cable and conduits (mm) .....		—
3.2.4	Appliance inlets		<b>N/A</b>
3.2.5	Power supply cords	Refer below.	<b>N/A</b>
3.2.5.1	AC power supply cords	Power supply cord is part of a separately approved device.	<b>N/A</b>
	Type .....		—
	Rated current (A), cross-sectional area (mm <sup>2</sup> ), AWG .....		—
3.2.5.2	DC power supply cords	Power supply cord is part of a separately approved device.	<b>N/A</b>
3.2.6	Cord anchorages and strain relief		<b>N/A</b>
	Mass of equipment (kg), pull (N) .....		—
	Longitudinal displacement (mm) .....		—
3.2.7	Protection against mechanical damage		<b>N/A</b>
3.2.8	Cord guards		<b>N/A</b>
	Diameter or minor dimension D (mm); test mass (g) .....		—

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Clause	Requirement + Test	Result - Remark	Verdict
	Radius of curvature of cord (mm) .....		—
3.2.9	Supply wiring space		N/A
<b>3.3</b>	<b>Wiring terminals for connection of external conductors</b>		<b>N/A</b>
3.3.1	Wiring terminals	No wiring terminals in device.	N/A
3.3.2	Connection of non-detachable power supply cords		N/A
3.3.3	Screw terminals		N/A
3.3.4	Conductor sizes to be connected		N/A
	Rated current (A), cord/cable type, cross-sectional area (mm <sup>2</sup> ) .....		—
3.3.5	Wiring terminal sizes		N/A
	Rated current (A), type, nominal thread diameter (mm) .....		—
3.3.6	Wiring terminal design		N/A
3.3.7	Grouping of wiring terminals		N/A
3.3.8	Stranded wire		N/A
<b>3.4</b>	<b>Disconnection from the mains supply</b>		<b>N/A</b>
3.4.1	General requirement		N/A
3.4.2	Disconnect devices		N/A
3.4.3	Permanently connected equipment		N/A
3.4.4	Parts which remain energized		N/A
3.4.5	Switches in flexible cords		N/A
3.4.6	Number of poles - single-phase and d.c. equipment		N/A
3.4.7	Number of poles - three-phase equipment		N/A
3.4.8	Switches as disconnect devices		N/A
3.4.9	Plugs as disconnect devices		N/A
3.4.10	Interconnected equipment		N/A
3.4.11	Multiple power sources		N/A
<b>3.5</b>	<b>Interconnection of equipment</b>		<b>N/A</b>
3.5.1	General requirements		N/A
3.5.2	Types of interconnection circuits .....		N/A
3.5.3	ELV circuits as interconnection circuits		N/A
3.5.4	Data ports for additional equipment		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

<b>4</b>	<b>PHYSICAL REQUIREMENTS</b>		<b>P</b>
<b>4.1</b>	<b>Stability</b>		<b>P</b>
	Angle of 10°		<b>P</b>
	Test force (N) .....	44 N ( Scan); 29.4 N (Touch Writer)	<b>P</b>

<b>4.2</b>	<b>Mechanical strength</b>		<b>P</b>
4.2.1	General		<b>P</b>
	Rack-mounted equipment.	Equipment is not rack-mounted.	<b>N/A</b>
4.2.2	Steady force test, 10 N		<b>N/A</b>
4.2.3	Steady force test, 30 N		<b>N/A</b>
4.2.4	Steady force test, 250 N		<b>P</b>
4.2.5	Impact test		<b>P</b>
	Fall test	1.3m.	<b>P</b>
	Swing test		<b>N/A</b>
4.2.6	Drop test; height (mm) .....	Tablet dropped from 1 m.	<b>P</b>
4.2.7	Stress relief test		<b>N/A</b>
4.2.8	Cathode ray tubes	Equipment does not use cathode ray tubes.	<b>N/A</b>
	Picture tube separately certified .....		<b>N/A</b>
4.2.9	High pressure lamps	Equipment does not contain high pressure lamps.	<b>N/A</b>
4.2.10	Wall or ceiling mounted equipment; force (N) .....	Equipment is not wall or ceiling mounted.	<b>N/A</b>

<b>4.3</b>	<b>Design and construction</b>		<b>P</b>
4.3.1	Edges and corners	Rounded and smooth.	<b>P</b>
4.3.2	Handles and manual controls; force (N) .....	50N (12lbf).	<b>P</b>
4.3.3	Adjustable controls	No adjustable controls.	<b>N/A</b>
4.3.4	Securing of parts		<b>N/A</b>
4.3.5	Connection by plugs and sockets		<b>N/A</b>
4.3.6	Direct plug-in equipment	Equipment is not direct plug-in equipment.	<b>N/A</b>
	Torque .....		—
	Compliance with the relevant mains plug standard .....		<b>N/A</b>
4.3.7	Heating elements in earthed equipment		<b>N/A</b>

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Clause	Requirement + Test	Result - Remark	Verdict
4.3.8	Batteries	Batteries are separately approved devices. See separate battery test report.	P
	- Overcharging of a rechargeable battery	Batteries can not be charged while docked on equipment.	N/A
	- Unintentional charging of a non-rechargeable battery	Battery is rechargeable. See summary of testing.	N/A
	- Reverse charging of a rechargeable battery	Charger is not part of this evaluation.	N/A
	- Excessive discharging rate for any battery		P
4.3.9	Oil and grease	Equipment does not use oil or grease.	N/A
4.3.10	Dust, powders, liquids and gases	Equipment does not use dust, powders, liquids or gases.	N/A
4.3.11	Containers for liquids or gases		N/A
4.3.12	Flammable liquids .....	Equipment does not use flammable liquids.	N/A
	Quantity of liquid (l) .....		N/A
	Flash point (°C) .....		N/A
4.3.13	Radiation		N/A
4.3.13.1	General		N/A
4.3.13.2	Ionizing radiation		N/A
	Measured radiation (pA/kg) .....		—
	Measured high-voltage (kV) .....		—
	Measured focus voltage (kV) .....		—
	CRT markings .....		—
4.3.13.3	Effect of ultraviolet (UV) radiation on materials		N/A
	Part, property, retention after test, flammability classification .....		N/A
4.3.13.4	Human exposure to ultraviolet (UV) radiation .....	Equipment does not use UV radiation.	N/A
4.3.13.5	Lasers (including laser diodes) and LEDs	Diffused LED's only.	N/A
4.3.13.5.1	Lasers (including laser diodes)		N/A
	Laser class .....		—
4.3.13.5.2	Light emitting diodes (LEDs)		
4.3.13.6	Other types .....		N/A
<b>4.4</b>	<b>Protection against hazardous moving parts</b>		<b>P</b>
4.4.1	General	Refer below:	P

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Clause	Requirement + Test	Result - Remark	Verdict
4.4.2	Protection in operator access areas .....	The scanner is covered but some moving parts are still accessible, these parts stop within moments of opening the cover. No safety concern.	<b>P</b>
	Household and home/office document/media shredders	Equipment is not a shredder.	<b>N/A</b>
4.4.3	Protection in restricted access locations .....	Not in a restricted access location.	<b>N/A</b>
4.4.4	Protection in service access areas		<b>N/A</b>
4.4.5	Protection against moving fan blades	Equipment does not contain fans.	<b>N/A</b>
4.4.5.1	General		<b>N/A</b>
	Not considered to cause pain or injury. a).....		<b>N/A</b>
	Is considered to cause pain, not injury. b) .....		<b>N/A</b>
	Considered to cause injury. c) .....		<b>N/A</b>
4.4.5.2	Protection for users		<b>N/A</b>
	Use of symbol or warning .....		<b>N/A</b>
4.4.5.3	Protection for service persons		<b>N/A</b>
	Use of symbol or warning .....		<b>N/A</b>
<b>4.5</b>	<b>Thermal requirements</b>		<b>P</b>
4.5.1	General	Refer below:	<b>P</b>
4.5.2	Temperature tests		<b>P</b>
	Normal load condition per Annex L .....	L7 considered (other equipment).	—
4.5.3	Temperature limits for materials	(see appended table 4.5)	<b>P</b>
4.5.4	Touch temperature limits	(see appended table 4.5)	<b>P</b>
4.5.5	Resistance to abnormal heat .....	No hazardous voltages present.	<b>N/A</b>

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Clause	Requirement + Test	Result - Remark	Verdict

<b>4.6</b>	<b>Openings in enclosures</b>		<b>N/A</b>
4.6.1	Top and side openings	No hazardous voltages.	<b>N/A</b>
	Dimensions (mm) .....		—
4.6.2	Bottoms of fire enclosures		<b>N/A</b>
	Construction of the bottom, dimensions (mm) ...:		—
4.6.3	Doors or covers in fire enclosures		<b>N/A</b>
4.6.4	Openings in transportable equipment	Class III equipment.	<b>N/A</b>
4.6.4.1	Constructional design measures		<b>N/A</b>
	Dimensions (mm) .....		—
4.6.4.2	Evaluation measures for larger openings		<b>N/A</b>
4.6.4.3	Use of metallized parts		<b>N/A</b>
4.6.5	Adhesives for constructional purposes	No adhesives used for constructional purposes.	<b>N/A</b>
	Conditioning temperature (°C), time (weeks).....:		—

<b>4.7</b>	<b>Resistance to fire</b>		<b>P</b>
4.7.1	Reducing the risk of ignition and spread of flame	Method 1 is used.	<b>P</b>
	Method 1, selection and application of components wiring and materials	(See appended table 1.5.1).	<b>P</b>
	Method 2, application of all of simulated fault condition tests		<b>N/A</b>
4.7.2	Conditions for a fire enclosure		<b>N/A</b>
4.7.2.1	Parts requiring a fire enclosure		<b>N/A</b>
4.7.2.2	Parts not requiring a fire enclosure		<b>N/A</b>
4.7.3	Materials		<b>P</b>
4.7.3.1	General	Components and materials have adequate flammability ratings. (See appended table 1.5.1).	<b>P</b>
4.7.3.2	Materials for fire enclosures		<b>N/A</b>
4.7.3.3	Materials for components and other parts outside fire enclosures	No fire enclosure required.	<b>N/A</b>
4.7.3.4	Materials for components and other parts inside fire enclosures		<b>N/A</b>
4.7.3.5	Materials for air filter assemblies		<b>N/A</b>
4.7.3.6	Materials used in high-voltage components		<b>N/A</b>

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<b>5</b>	<b>ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS</b>		<b>P</b>
<b>5.1</b>	<b>Touch current and protective conductor current</b>		<b>P</b>
5.1.1	General		<b>P</b>
5.1.2	Configuration of equipment under test (EUT)	Class III device.	<b>N/A</b>
5.1.2.1	Single connection to an a.c. mains supply	No direct connection to mains.	<b>N/A</b>
5.1.2.2	Redundant multiple connections to an a.c. mains supply		<b>N/A</b>
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply		<b>N/A</b>
5.1.3	Test circuit	No hazardous voltage present.	<b>N/A</b>
5.1.4	Application of measuring instrument		<b>N/A</b>
5.1.5	Test procedure		<b>N/A</b>
5.1.6	Test measurements		<b>N/A</b>
	Supply voltage (V) .....		—
	Measured touch current (mA) .....		—
	Max. allowed touch current (mA) .....		—
	Measured protective conductor current (mA) .....		—
	Max. allowed protective conductor current (mA).....		—
5.1.7	Equipment with touch current exceeding 3,5 mA		<b>N/A</b>
5.1.7.1	General .....		<b>N/A</b>
5.1.7.2	Simultaneous multiple connections to the supply		<b>N/A</b>
5.1.8	Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks		<b>N/A</b>
5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable distribution system		<b>N/A</b>
	Supply voltage (V) .....		—
	Measured touch current (mA) .....		—
	Max. allowed touch current (mA) .....		—
5.1.8.2	Summation of touch currents from telecommunication networks		<b>N/A</b>
	a) EUT with earthed telecommunication ports .....		<b>N/A</b>
	b) EUT whose telecommunication ports have no reference to protective earth		<b>N/A</b>



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<b>5.2</b>	<b>Electric strength</b>		<b>N/A</b>
5.2.1	General	Class III device.	<b>N/A</b>
5.2.2	Test procedure	Class III device.	<b>N/A</b>

<b>5.3</b>	<b>Abnormal operating and fault conditions</b>		<b>P</b>
5.3.1	Protection against overload and abnormal operation	(see appended table 5.3)	<b>P</b>
5.3.2	Motors	Stepper motors used in printer and scanner.	<b>N/A</b>
5.3.3	Transformers	No such device.	<b>N/A</b>
5.3.4	Functional insulation.....:		<b>N/A</b>
5.3.5	Electromechanical components		<b>N/A</b>
5.3.6	Audio amplifiers in ITE .....		<b>N/A</b>
5.3.7	Simulation of faults		<b>N/A</b>
5.3.8	Unattended equipment		<b>P</b>
5.3.9	Compliance criteria for abnormal operating and fault conditions	Refer below:	<b>P</b>
5.3.9.1	During the tests	No fire or molten materials; no excessive temperatures.	<b>P</b>
5.3.9.2	After the tests		<b>N/A</b>

<b>6</b>	<b>CONNECTION TO TELECOMMUNICATION NETWORKS</b>		<b>N/A</b>
<b>6.1</b>	<b>Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment</b>		<b>N/A</b>
6.1.1	Protection from hazardous voltages		<b>N/A</b>
6.1.2	Separation of the telecommunication network from earth		<b>N/A</b>
6.1.2.1	Requirements	No connection to telecommunications systems.	<b>N/A</b>
	Supply voltage (V) .....		—
	Current in the test circuit (mA) .....		—
6.1.2.2	Exclusions .....		<b>N/A</b>

<b>6.2</b>	<b>Protection of equipment users from overvoltages on telecommunication networks</b>		<b>N/A</b>
6.2.1	Separation requirements	No connection to telecommunications systems.	<b>N/A</b>
6.2.2	Electric strength test procedure		<b>N/A</b>
6.2.2.1	Impulse test		<b>N/A</b>

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Clause	Requirement + Test	Result - Remark	Verdict
6.2.2.2	Steady-state test		N/A
6.2.2.3	Compliance criteria		N/A
<b>6.3</b>	<b>Protection of the telecommunication wiring system from overheating</b>		<b>N/A</b>
	Max. output current (A) .....	No connection to telecommunications systems.	—
	Current limiting method .....		—
<b>7</b>	<b>CONNECTION TO CABLE DISTRIBUTION SYSTEMS</b>		<b>N/A</b>
<b>7.1</b>	<b>General</b>	No connection to cable distribution systems.	<b>N/A</b>
7.2	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment		<b>N/A</b>
7.3	Protection of equipment users from overvoltages on the cable distribution system		<b>N/A</b>
7.4	Insulation between primary circuits and cable distribution systems		<b>N/A</b>
7.4.1	General		<b>N/A</b>
7.4.2	Voltage surge test		<b>N/A</b>
7.4.3	Impulse test		<b>N/A</b>
<b>A</b>	<b>ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE</b>		<b>N/A</b>
<b>A.1</b>	<b>Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)</b>	Flammability tests not required.	<b>N/A</b>
A.1.1	Samples .....		—
	Wall thickness (mm) .....		—
A.1.2	Conditioning of samples; temperature (°C) .....		<b>N/A</b>
A.1.3	Mounting of samples .....		<b>N/A</b>
A.1.4	Test flame (see IEC 60695-11-3)		<b>N/A</b>
	Flame A, B, C or D .....		—
A.1.5	Test procedure		<b>N/A</b>
A.1.6	Compliance criteria		<b>N/A</b>
	Sample 1 burning time (s) .....		—
	Sample 2 burning time (s) .....		—
	Sample 3 burning time (s) .....		—

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Clause	Requirement + Test	Result - Remark	Verdict
<b>A.2</b>	<b>Flammability test for fire enclosures of movable equipment having a total mass not exceeding 18 kg, and for material and components located inside fire enclosures (see 4.7.3.2 and 4.7.3.4)</b>		<b>N/A</b>
A.2.1	Samples, material.....:		—
	Wall thickness (mm).....:		—
A.2.2	Conditioning of samples; temperature (°C).....:		<b>N/A</b>
A.2.3	Mounting of samples.....:		<b>N/A</b>
A.2.4	Test flame (see IEC 60695-11-4)		<b>N/A</b>
	Flame A, B or C.....:		—
A.2.5	Test procedure		<b>N/A</b>
A.2.6	Compliance criteria		<b>N/A</b>
	Sample 1 burning time (s).....:		—
	Sample 2 burning time (s).....:		—
	Sample 3 burning time (s).....:		—
A.2.7	Alternative test acc. to IEC 60695-11-5, cl. 5 and 9		<b>N/A</b>
	Sample 1 burning time (s).....:		—
	Sample 2 burning time (s).....:		—
	Sample 3 burning time (s).....:		—
<b>A.3</b>	<b>Hot flaming oil test (see 4.6.2)</b>		<b>N/A</b>
A.3.1	Mounting of samples		<b>N/A</b>
A.3.2	Test procedure		<b>N/A</b>
A.3.3	Compliance criterion		<b>N/A</b>
<b>B</b>	<b>ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2)</b>		<b>N/A</b>
<b>B.1</b>	<b>General requirements</b>	All motors are DC stepper motors.	<b>N/A</b>
	Position.....:		—
	Manufacturer.....:		—
	Type.....:		—
	Rated values.....:		—
<b>B.2</b>	<b>Test conditions</b>		<b>N/A</b>
<b>B.3</b>	<b>Maximum temperatures</b>		<b>N/A</b>
<b>B.4</b>	<b>Running overload test</b>		<b>N/A</b>
<b>B.5</b>	<b>Locked-rotor overload test</b>		<b>N/A</b>
	Test duration (days).....:		—
	Electric strength test: test voltage (V).....:		—

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Clause	Requirement + Test	Result - Remark	Verdict
<b>B.6</b>	<b>Running overload test for d.c. motors in secondary circuits</b>		<b>N/A</b>
B.6.1	General		<b>N/A</b>
B.6.2	Test procedure		<b>N/A</b>
B.6.3	Alternative test procedure		<b>N/A</b>
B.6.4	Electric strength test; test voltage (V) .....		<b>N/A</b>
<b>B.7</b>	<b>Locked-rotor overload test for d.c. motors in secondary circuits</b>		<b>N/A</b>
B.7.1	General		<b>N/A</b>
B.7.2	Test procedure		<b>N/A</b>
B.7.3	Alternative test procedure		<b>N/A</b>
B.7.4	Electric strength test; test voltage (V) .....		<b>N/A</b>
<b>B.8</b>	<b>Test for motors with capacitors</b>		<b>N/A</b>
<b>B.9</b>	<b>Test for three-phase motors</b>		<b>N/A</b>
<b>B.10</b>	<b>Test for series motors</b>		<b>N/A</b>
	Operating voltage (V) .....		—
<b>C</b>	<b>ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)</b>		<b>N/A</b>
	Position .....	No such transformers used.	—
	Manufacturer .....		—
	Type .....		—
	Rated values .....		—
	Method of protection.....		—
<b>C.1</b>	<b>Overload test</b>		<b>N/A</b>
<b>C.2</b>	<b>Insulation</b>		<b>N/A</b>
	Protection from displacement of windings .....		<b>N/A</b>
<b>D</b>	<b>ANNEX D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS (see 5.1.4)</b>		<b>N/A</b>
<b>D.1</b>	<b>Measuring instrument</b>		<b>N/A</b>
<b>D.2</b>	<b>Alternative measuring instrument</b>		<b>N/A</b>
<b>E</b>	<b>ANNEX E, TEMPERATURE RISE OF A WINDING (see 1.4.13)</b>		<b>N/A</b>
<b>F</b>	<b>ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10 and Annex G)</b>		<b>N/A</b>
<b>G</b>	<b>ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES</b>		<b>N/A</b>

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Clause	Requirement + Test	Result - Remark	Verdict
<b>G.1</b>	<b>Clearances</b>	Class III device.	N/A
G.1.1	General		N/A
G.1.2	Summary of the procedure for determining minimum clearances		N/A
<b>G.2</b>	<b>Determination of mains transient voltage (V)</b>	Class III device.	N/A
G.2.1	AC mains supply .....		N/A
G.2.2	Earthed d.c. mains supplies .....		N/A
G.2.3	Unearthed d.c. mains supplies .....		N/A
G.2.4	Battery operation .....		N/A
<b>G.3</b>	<b>Determination of telecommunication network transient voltage (V) .....</b>	No connection to telecommunications systems	N/A
<b>G.4</b>	<b>Determination of required withstand voltage (V)</b>		N/A
G.4.1	Mains transients and internal repetitive peaks .....		N/A
G.4.2	Transients from telecommunication networks .....		N/A
G.4.3	Combination of transients		N/A
G.4.4	Transients from cable distribution systems		N/A
<b>G.5</b>	<b>Measurement of transient voltages (V)</b>	Class III device.	N/A
	a) Transients from a mains supply		N/A
	For an a.c. mains supply		N/A
	For a d.c. mains supply		N/A
	b) Transients from a telecommunication network		N/A
<b>G.6</b>	<b>Determination of minimum clearances .....</b>	Class III device.	N/A
<b>H</b>	<b>ANNEX H, IONIZING RADIATION (see 4.3.13)</b>		N/A
<b>J</b>	<b>ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)</b>		N/A
	Metal(s) used .....		—
<b>K</b>	<b>ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.8)</b>		N/A
K.1	Making and breaking capacity	No such device used.	N/A
K.2	Thermostat reliability; operating voltage (V) .....		N/A
K.3	Thermostat endurance test; operating voltage (V) .....		N/A
K.4	Temperature limiter endurance; operating voltage (V) .....		N/A
K.5	Thermal cut-out reliability		N/A
K.6	Stability of operation		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
<b>L</b>	<b>ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)</b>		<b>P</b>
L.1	Typewriters		N/A
L.2	Adding machines and cash registers		N/A
L.3	Erasers		N/A
L.4	Pencil sharpeners		N/A
L.5	Duplicators and copy machines		N/A
L.6	Motor-operated files		N/A
L.7	Other business equipment	Considered.	P
<b>M</b>	<b>ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)</b>		<b>N/A</b>
M.1	Introduction	No ringing signals in or produced by equipment.	N/A
M.2	Method A		N/A
M.3	Method B		N/A
M.3.1	Ringling signal		N/A
M.3.1.1	Frequency (Hz) .....		—
M.3.1.2	Voltage (V) .....		—
M.3.1.3	Cadence; time (s), voltage (V) .....		—
M.3.1.4	Single fault current (mA) .....		—
M.3.2	Tripping device and monitoring voltage .....		N/A
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage		N/A
M.3.2.2	Tripping device		N/A
M.3.2.3	Monitoring voltage (V) .....		N/A
<b>N</b>	<b>ANNEX N, IMPULSE TEST GENERATORS (see 1.5.7.2, 1.5.7.3, 2.10.3.9, 6.2.2.1, 7.3.2, 7.4.3 and Clause G.5)</b>		<b>N/A</b>
N.1	ITU-T impulse test generators	Not a telecommunications device.	N/A
N.2	IEC 60065 impulse test generator		N/A
<b>P</b>	<b>ANNEX P, NORMATIVE REFERENCES</b>		—
<b>Q</b>	<b>ANNEX Q, Voltage dependent resistors (VDRs) (see 1.5.9.1)</b>		<b>N/A</b>
	- Preferred climatic categories .....		N/A
	- Maximum continuous voltage .....		N/A
	- Combination pulse current .....		N/A

<b>IEC 60950-1</b>			
<b>Clause</b>	<b>Requirement + Test</b>	<b>Result - Remark</b>	<b>Verdict</b>
	Body of the VDR Test according to IEC60695-11-5.....:		<b>N/A</b>
	Body of the VDR. Flammability class of material ( min V-1).....:		<b>N/A</b>
<b>R</b>	<b>ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES</b>		<b>N/A</b>
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)		<b>N/A</b>
R.2	Reduced clearances (see 2.10.3)		<b>N/A</b>
<b>S</b>	<b>ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)</b>		<b>N/A</b>
S.1	Test equipment	Not a telecommunications device.	<b>N/A</b>
S.2	Test procedure		<b>N/A</b>
S.3	Examples of waveforms during impulse testing		<b>N/A</b>
<b>T</b>	<b>ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)</b>		<b>N/A</b>
			—
<b>U</b>	<b>ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)</b>		<b>N/A</b>
			—
<b>V</b>	<b>ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)</b>		<b>N/A</b>
V.1	Introduction	Class III device. No direct connection to AC distribution systems.	<b>N/A</b>
V.2	TN power distribution systems		<b>N/A</b>

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Clause	Requirement + Test	Result - Remark	Verdict
<b>W</b>	<b>ANNEX W, SUMMATION OF TOUCH CURRENTS</b>		<b>N/A</b>
W.1	Touch current from electronic circuits	Class III device. No direct connection to AC distribution systems.	<b>N/A</b>
W.1.1	Floating circuits		<b>N/A</b>
W.1.2	Earthed circuits		<b>N/A</b>
W.2	Interconnection of several equipments		<b>N/A</b>
W.2.1	Isolation		<b>N/A</b>
W.2.2	Common return, isolated from earth		<b>N/A</b>
W.2.3	Common return, connected to protective earth		<b>N/A</b>
<b>X</b>	<b>ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1)</b>		<b>N/A</b>
X.1	Determination of maximum input current	No such device used.	<b>N/A</b>
X.2	Overload test procedure		<b>N/A</b>
<b>Y</b>	<b>ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)</b>		<b>N/A</b>
Y.1	Test apparatus .....	Does not produce UV radiation.	<b>N/A</b>
Y.2	Mounting of test samples .....		<b>N/A</b>
Y.3	Carbon-arc light-exposure apparatus .....		<b>N/A</b>
Y.4	Xenon-arc light exposure apparatus .....		<b>N/A</b>
<b>Z</b>	<b>ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2 and Clause G.2)</b>		<b>N/A</b>
<b>AA</b>	<b>ANNEX AA, MANDREL TEST (see 2.10.5.8)</b>		<b>N/A</b>
<b>BB</b>	<b>ANNEX BB, CHANGES IN THE SECOND EDITION</b>		—
<b>CC</b>	<b>ANNEX CC, Evaluation of integrated circuit (IC) current limiters</b>		<b>N/A</b>
CC.1	General		<b>N/A</b>
CC.2	Test program 1.....		<b>N/A</b>
CC.3	Test program 2.....		<b>N/A</b>
CC.4	Test program 3.....		<b>N/A</b>
CC.5	Compliance.....		<b>N/A</b>
<b>DD</b>	<b>ANNEX DD, Requirements for the mounting means of rack-mounted equipment</b>		<b>N/A</b>
DD.1	General	Equipment is not rack-mounted.	<b>N/A</b>



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Clause	Requirement + Test	Result - Remark	Verdict
DD.2	Mechanical strength test, variable N.....:		<b>N/A</b>
DD.3	Mechanical strength test, 250N, including end stops.....:		<b>N/A</b>
DD.4	Compliance.....:		<b>N/A</b>
<b>EE</b>	<b>ANNEX EE, Household and home/office document/media shredders</b>		<b>N/A</b>
EE.1	General	Equipment is not a shredder.	<b>N/A</b>
EE.2	Markings and instructions		<b>N/A</b>
	Use of markings or symbols.....:		<b>N/A</b>
	Information of user instructions, maintenance and/or servicing instructions.....:		<b>N/A</b>
EE.3	Inadvertent reactivation test.....:		<b>N/A</b>
EE.4	Disconnection of power to hazardous moving parts:		<b>N/A</b>
	Use of markings or symbols.....:		<b>N/A</b>
EE.5	Protection against hazardous moving parts		<b>N/A</b>
	Test with test finger (Figure 2A) .....		<b>N/A</b>
	Test with wedge probe (Figure EE1 and EE2) .....		<b>N/A</b>

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Clause	Requirement + Test	Result - Remark	Verdict

1.5.1 TABLE: List of critical components					
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity <sup>1)</sup>
Enclosure, Case	Prismier Mechanical Contract manufacturing or equivalent.	2005005;2005006; 2005007;2005008; 2005011;2005012	Min. Thickness:2.54mm (0.1inch) V-0 Wonderloy PC-510 (chi mei corp - E56070-100239180))	-	None; tested as part of the equipment.
Rear Panel, Touch Writer and Scan	Prismier Mechanical Contract manufacturing or equivalent	1005190	Wonderloy PC-510 ; 0.090" thick	-	None; tested as part of the equipment.
Power Adapter (limited power source)	XP Power or equivalent.	AHM85PS24 or equivalent.	Input 100-240V ~1.0A, 50/60Hz Output +24V DC, 3.54A	UL60601-1	UL E302267
Li-ion Battery	Totex mfg. Inc	31NR19/66-2	Li-ion battery 10.8V;6.7Ah;72.0Wh	UL 2054	UL MH29443
Scanner	Peripheral Dynamics, Inc or equivalent	105-8559-211 or equivalent	24Vdc+/-5%;30W; 0°C - 50°C	-	None; tested as part of the equipment.
2.5" Thermal Printer (x2)	Seiko or equivalent	DPU-D2-00A-E or equivalent	+5to +9Vdc @ 30W; -10°C - 50°C	-	None; tested as part of the equipment.
<b>Supplementary information:</b> <sup>1)</sup> Provided evidence ensures the agreed level of compliance. See OD-CB2039.					

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Clause	Requirement + Test	Result - Remark	Verdict

<b>1.5.1</b>	<b>TABLE: Opto Electronic Devices</b>	<b>N/A</b>
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Manufacturer .....	:
Type .....	:
Separately tested.....	:
Bridging insulation .....	:
External creepage distance .....	:
Internal creepage distance .....	:
Distance through insulation .....	:
Tested under the following conditions.....	:
Input .....	:
Output.....	:
supplementary information	
Not applicable.	

<b>1.6.2</b>	<b>TABLE: Electrical data (in normal conditions)</b>	<b>P</b>
--------------	--	----------

U (V)	I (A)	Irated (A)	P (W)	Fuse #	Ifuse (A)	Condition/status
22.8 Vd.c.	1.0	-	-	-	-	1)
24 Vd.c.	1.4	2.4	-	-	-	1)
25.2 Vd.c.	1.3	-	-	-	-	1)
22.8 Vd.c.	2.4	-	-	-	-	2)
24.0 Vd.c.	2.4	2.4	-	-	-	2)
25.2 Vd.c.	2.2	-	-	-	-	2)

Supplementary information:

- 1) Verity Scan module, fully loaded with "shoe shine" program allowing the scanner to process the paper every 30 seconds.
- 2) Verity Touch Writer module, fully loaded.

Lab environmental conditions: 11/07/2014 -19.8°C@50%RH Tested by: D. Kozdereli/T.Macias



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Clause	Requirement + Test	Result - Remark	Verdict

2.1.1.5 c) 1)	TABLE: max. V, A, VA test				N/A
Voltage (rated) (V)	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max.) (VA)	
-	-	-	-	-	
supplementary information:					
Not applicable.					

2.1.1.5 c) 2)	TABLE: stored energy		N/A
Capacitance C ( $\mu$ F)	Voltage U (V)	Energy E (J)	
-	-	-	
supplementary information:			
Not applicable.			

2.2	TABLE: evaluation of voltage limiting components in SELV circuits			N/A
Component (measured between)	max. voltage (V) (normal operation)		Voltage Limiting Components	
	V peak	V d.c.		
-	-	-	-	
Fault test performed on voltage limiting components		Voltage measured (V) in SELV circuits (V peak or V d.c.)		
-		-		
supplementary information:				
Not applicable.				

2.5	TABLE: Limited power sources				N/A	
Circuit output tested:						
Note: Measured Uoc (V) with all load circuits disconnected:						
Components	Sample No.	Uoc (V)	I <sub>sc</sub> (A)		VA	
			Meas.	Limit	Meas.	Limit
-	-	-	-	-	-	-
supplementary information:						
Not applicable.						

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2.10.2	Table: working voltage measurement			N/A
Location	RMS voltage (V)	Peak voltage (V)	Comments	
-	-	-	-	
supplementary information:				
Not applicable.				

2.10.3 and 2.10.4	TABLE: Clearance and creepage distance measurements						N/A
Clearance (cl) and creepage distance (cr) at/of/between:	U peak (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)	
-	-	-	-	-	-	-	
Supplementary information:							
Not applicable.							

2.10.5	TABLE: Distance through insulation measurements						N/A
Distance through insulation (DTI) at/of:	U peak (V)	U rms (V)	Test voltage (V)	Required DTI (mm)	DTI (mm)		
-	-	-	-	-	-		
Supplementary information:							
Not applicable.							

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Clause	Requirement + Test			Result - Remark				Verdict		
<b>4.3.8</b>	<b>TABLE: Batteries</b>								<b>N/A</b>	
The tests of 4.3.8 are applicable only when appropriate battery data is not available								<b>N/A</b>		
Is it possible to install the battery in a reverse polarity position?				Battery connector is keyed.				<b>N/A</b>		
	Non-rechargeable batteries			Rechargeable batteries						
	Discharging		Un-intentional charging	Charging		Discharging		Reversed charging		
	Meas. current	Manuf. Specs.		Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	
Max. current during normal condition	-	-	-	-	-	-	-	-	-	
Max. current during fault condition	-	-	-	-	-	-	-	-	-	
Test results:										
- Chemical leaks								<b>N/A</b>		
- Explosion of the battery								<b>N/A</b>		
- Emission of flame or expulsion of molten metal								<b>N/A</b>		
- Electric strength tests of equipment after completion of tests								<b>N/A</b>		
Supplementary information: Battery is separately approved device.										



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<b>4.3.8</b>	<b>TABLE: Batteries</b>	<b>N/A</b>	
Battery category ..... : (Lithium, NiMh, NiCad, Lithium Ion ...) Manufacturer ..... : Type / model ..... : Voltage ..... : Capacity ..... : mAh Tested and Certified by (incl. Ref. No.) ..... : Circuit protection diagram: Battery is separately approved device.			

<b>MARKINGS AND INSTRUCTIONS (1.7.13 )</b>	
Location of replaceable battery	
Language(s) .....	
Close to the battery .....	
In the servicing instructions .....	
In the operating instructions .....	

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Clause	Requirement + Test	Result - Remark	Verdict

4.5	TABLE: Thermal requirements			P			
	Supply voltage (V d.c.) .....	22.89	24.00	25.00	—		
	Ambient T <sub>min</sub> (°C) .....	22	20	22	—		
	Ambient T <sub>max</sub> (°C) .....	24	24	24	—		
	Maximum measured temperature T of part/at.....:	T (°C)			Allowed T <sub>max</sub> (°C)		
		1	2	3			
	<b>Ambient</b>	23/40	23/40	23/40	Information only.		
	<b>Surface Select button</b>	24/41	24/41	24/41	85°C TB4C		
	<b>Surface Help button</b>	24/41	24/41	24/41	85°C TB4C		
	<b>Surface Move button</b>	36/53	25/42	24/41	85°C TB4C		
	<b>Surface small printer interior (metal)</b>	36/53	24/41	24/41	60°C TB4C		
	<b>Ambient inside</b>	30/47	28/45	29/46	Information only.		
	<b>Ambient input</b>	31/48	30/47	30/47	Information only.		
	<b>Inside surface touch access USB</b>	30/47	29/46	29/46	70°C TB4C		
	<b>Inside ambient</b>	30/47	29/46	29/46	Information only.		
	<b>Surface printer metal</b>	37/54	36/53	36/53	60°C TB4C		
	<b>Surface on/off button</b>	27/44	26/43	27/44	85°C TB4C		
	<b>Surface top cover</b>	24/41	24/41	23/40	85°C TB4C		
	<b>Surface Poll button</b>	27/44	26/43	26/43	85°C TB4C		
	<b>Surface metal handle</b>	23/40	24/41	22/39	55°C TB4C		
	<b>Surface handle rubber</b>	23/40	24/41	22/39	85°C TB4C		
	<b>Tablet ambient coin cell</b>	46/63	45/62	46/63	60°C MFR (1)		
	<b>Tablet Surface switch</b>	36/52	35/52	35/52	70°C TB4C		
	<b>Tablet surface back</b>	32/49	31/48	31/48	95°C TB4C		
	<b>Tablet surface touch screen</b>	34/51	33/50	33/50	65°C TB4C		
	<b>Battery connection</b>	35/52	34/51	34/51	85°C TB4C		
Supplementary information: Verity Touch Writer Test 1[11/10/2014; 19.8°C@46%RH], Tests 2 and 3 [11/11/2014; 20.3°C@45%RH], Normal conditions. Test by Tomas Macias. TB4C = Table 4C; MFR = Manufacturer 1) Based on the manufacturer temperature characteristics the RTC (real time clock) battery has decreased performance at higher temperatures. There is no safety risk.							
Temperature 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
-	-	-	-	-	-	-	-
Supplementary information:						Not applicable.	



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

4.5	TABLE: Thermal requirements				P		
	Supply voltage (V d.c.) .....	22.89	24.00	25.00	—		
	Ambient T <sub>min</sub> (°C) .....	22	20	22	—		
	Ambient T <sub>max</sub> (°C) .....	24	24	24	—		
Maximum measured temperature T of part/at.....:		T (°C)			Allowed T <sub>max</sub> (°C)		
		4	5	6			
	Ambient scan	24/41	25/42	24/41	Information only.		
	Surface Poll button	22/39	23/40	22/39	85°C TB4C		
	Surface on button	29/46	28/45	28/45	85°C TB4C		
	Handle surface metal	25/42	25/42	24/41	60°C TB4C		
	Surface handle rubber	24/41	24/41	24/41	85°C TB4C		
	Ambient input	33/50	32/49	33/50	Information only.		
	Ambient scanner	34/51	33/50	34/51	Information only.		
	Metal surface under scanner	33/50	33/50	33/50	70°C TB4C		
	Audio junction	31/48	30/47	30/47	70°C TB4C		
	Scan cover	26/43	25/42	25/42	95°C TB4C		
	Tablet ambient coin cell battery	47/64	46/63	47/64	60°C MFR (1)		
	Tablet surface switch	35/52	34/51	34/51	70°C TB4C		
	Tablet surface battery connector	38/55	34/54	37/54	95°C TB4C		
	Surface interface	41/58	40/57	40/57	60°C TB4C		
	Surface touch screen	35/52	35/52	35/52	65°C TB4C		
	tablet back surface	31/48	30/47	31/48	95°C TB4C		
Supplementary information: Verity Scan Test 4[11/10/2014; 19.8°C@46%RH], Tests 5 and 6 [11/11/2014; 20.3°C@45%RH], Normal conditions. Test by Tomas Macias. TB4C = Table 4C; MFR = Manufacturer 1) Based on the manufacturer temperature characteristics the RTC (real time clock) battery has decreased performance at higher temperatures. There is no safety risk.							
Temperature T of winding:		t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	R <sub>2</sub> (Ω)	Allowed T <sub>max</sub> (°C)	Insulation class
		-	-	-	-	-	-
Supplementary information:						Not applicable.	



IEC 60950-1							
Clause	Requirement + Test	Result - Remark				Verdict	
<b>4.5</b>	<b>TABLE: Thermal requirements</b>					<b>P</b>	
	Supply voltage (V d.c.) .....	22.89	22.89	22.89	22.89	—	
	Ambient T <sub>min</sub> (°C) .....	20	20	19	20	—	
	Ambient T <sub>max</sub> (°C) .....	21	22	20	22	—	
	Maximum measured temperature T of part/at.....:	T (°C)				Allowed T <sub>max</sub> (°C)	
		7	8	9	10		
	<b>Ambient</b>	23/40	23/40	23/40	23/40	Information only.	
	<b>Surface Select button</b>	26/43	25/42	24/41	26/43	85°C TB4C	
	<b>Surface Help button</b>	26/43	25/42	24/41	26/43	85°C TB4C	
	<b>Surface Move button</b>	26/43	25/42	24/41	26/43	85°C TB4C	
	<b>Surface small printer interior (metal)</b>	25/42	25/42	24/41	26/43	Information only.	
	<b>Ambient inside</b>	28/45	28/45	25/42	30/47	Information only.	
	<b>Ambient input</b>	29/46	30/47	25/42	31/48	Information only.	
	<b>Inside surface touch access USB</b>	29/46	30/47	25/42	30/47	70°C TB4C	
	<b>Inside ambient</b>	28/45	27/44	24/41	29/46	Information only.	
	<b>Surface printer metal</b>	35/52	28/45	30/47	38/55	60°C TB4C	
	<b>Surface on/off button</b>	26/43	28/45	24/41	28/45	85°C TB4C	
	<b>Surface top cover</b>	25/42	25/42	24/41	25/42	85°C TB4C	
	<b>Surface Poll button</b>	26/43	27/44	24/41	27/44	85°C TB4C	
	<b>Surface metal handle</b>	24/41	24/41	24/41	24/41	55°C TB4C	
	<b>Surface handle rubber</b>	24/41	24/41	24/41	24/41	85°C TB4C	
	<b>Tablet ambient coin cell</b>	45/62	40/57	39/56	47/64	Information only.	
	<b>Tablet Surface switch</b>	37/54	31/58	32/49	39/56	70°C TB4C	
	<b>Tablet surface back</b>	31/48	29/46	27/44	32/49	95°C TB4C	
	<b>Tablet surface touch screen</b>	34/51	39/56	31/48	35/52	65°C TB4C	
	<b>Battery connection</b>	33/50	35/52	33/50	36/53	85°C TB4C	
Supplementary information: Verity Touch Writer							
Test 7-10 tested by T. Macais on 11/13/2014[19.2°C@24%RH] TB4C = Table 4C							
Test 7: SFC Tablet battery short.; Test 8: SFC Tablet connection short Test 9 SFC Tablet USB short							
TEST10 Printer USB short							
Temperature 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
-	-	-	-	-	-	-	-
Supplementary information: Not applicable.							

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

4.5	TABLE: Thermal requirements					P	
	Supply voltage (V d.c.) .....	22.89	22.89	22.89	—	—	
	Ambient T <sub>min</sub> (°C) .....	20	20	20	—	—	
	Ambient T <sub>max</sub> (°C) .....	22	21	22	—	—	
	Maximum measured temperature T of part/at.....:	T (°C)			Allowed T <sub>max</sub> (°C)		
		11	12	13			
	<b>Ambient</b>	23/40	23/40	23/40	Information only.		
	<b>Surface Select button</b>	25/42	25/42	25/42	85°C TB4C		
	<b>Surface Help button</b>	25/42	25/42	25/42	85°C TB4C		
	<b>Surface Move button</b>	26/43	26/43	26/43	85°C TB4C		
	<b>Surface small printer interior (metal)</b>	25/42	26/43	26/43	Information only.		
	<b>Ambient inside</b>	29/46	30/47	30/47	Information only.		
	<b>Ambient input</b>	31/48	31/48	31/48	Information only.		
	<b>Inside surface touch access USB</b>	30/47	30/47	30/47	70°C TB4C		
	<b>Inside ambient</b>	30/47	30/47	28/45	Information only.		
	<b>Surface printer metal</b>	37/54	37/54	37/54	60°C TB4C		
	<b>Surface on/off button</b>	27/44	27/44	27/44	85°C TB4C		
	<b>Surface top cover</b>	24/41	24/41	24/41	85°C TB4C		
	<b>Surface Poll button</b>	27/44	27/44	27/44	85°C TB4C		
	<b>Surface metal handle</b>	23/40	24/41	24/41	55°C TB4C		
	<b>Surface handle rubber</b>	24/41	24/41	24/41	85°C TB4C		
	<b>Tablet ambient coin cell</b>	47/64	47/64	47/64	Information only.		
	<b>Tablet Surface switch</b>	38/55	38/55	38/55	70°C TB4C		
	<b>Tablet surface back</b>	32/49	32/49	32/49	95°C TB4C		
	<b>Tablet surface touch screen</b>	34/51	34/51	34/51	65°C TB4C		
	<b>Battery connection</b>	35/52	35/52	35/52	85°C TB4C		
Supplementary information: Verty Touch Writer TB4C = Table 4C							
Tested by T.Macais {11/12/2014 19.1°C@33%RH}							
TEST 11: SFC Audio short TEST12: USB1 (compartment) short; TEST13: USB2 (compartment) short							
Temperature 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
-	-	-	-	-	-	-	-
Supplementary information: Not applicable.							

IEC 60950-1							
Clause	Requirement + Test	Result - Remark				Verdict	
<b>4.5</b>	<b>TABLE: Thermal requirements</b>					<b>P</b>	
	Supply voltage (V d.c.) .....	22.89	22.89	22.89	22.89	—	
	Ambient T <sub>min</sub> (°C) .....	20	20	19	20	—	
	Ambient T <sub>max</sub> (°C) .....	21	22	20	22	—	
	Maximum measured temperature T of part/at.....:	T (°C)				Allowed T <sub>max</sub> (°C)	
		14	15	16	17		
	<b>Ambient scan</b>	25/42	24/41	25/42	26/43	Information only.	
	<b>Surface Poll button</b>	23/40	23/40	23/40	24/41	85°C TB4C	
	<b>Surface on button</b>	28/45	29/46	25/42	29/46	85°C TB4C	
	<b>Handle surface metal</b>	30/47	25/42	24/41	26/43	60°C TB4C	
	<b>Surface handle rubber</b>	29/46	24/41	24/41	25/42	85°C TB4C	
	<b>Ambient input</b>	32/49	31/48	26/43	34/51	Information only.	
	<b>Ambient scanner</b>	31/48	33/50	25/42	35/52	Information only.	
	<b>Metal surface under scanner</b>	31/48	35/52	25/42	34/51	70°C TB4C	
	<b>Audio junction</b>	30/47	30/47	26/43	31/48	70°C TB4C	
	<b>Scan cover</b>	26/43	32/49	24/41	26/43	95°C TB4C	
	<b>Tablet ambient coin cell battery</b>	246/63	43/60	41/58	48/65	Information only.	
	<b>Tablet surface switch</b>	36/53	30/47	32/49	35/52	70°C TB4C	
	<b>Tablet surface battery connector</b>	36/53	39/56	35/52	39/56	95°C TB4C	
	<b>Surface interface</b>	38/55	34/51	30/47	41/58	60°C TB4C	
	<b>Surface touch screen</b>	35/52	41/58	33/50	36/53	65°C TB4C	
	<b>tablet back surface</b>	30/47	30/47	28/45	32/49	95°C TB4C	
Supplementary information: Verity Scan Test by T. Macais Tests 14-16: 11/13/2014; 19.2°C@24%RH: Test 17: 11/12/2014[19.1°C@45%RH TB4C = Table 4C Test 14: SFC Tablet battery short.; Test 15: SFC Tablet connection short Test 16: SFC Tablet USB short. Test 17: SFC Audio port short							
Temperature 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
-	-	-	-	-	-	-	-
Supplementary information: Not applicable.							



IEC 60950-1								
Clause	Requirement + Test				Result - Remark		Verdict	
<b>4.5</b>	<b>TABLE: Thermal requirements</b>						<b>P</b>	
	Supply voltage (V d.c.) .....	22.89		22.89			—	
	Ambient T <sub>min</sub> (°C) .....	22		20			—	
	Ambient T <sub>max</sub> (°C) .....	24		22			—	
Maximum measured temperature T of part/at.....:		T (°C)			Allowed T <sub>max</sub> (°C)			
		18		19				
	<b>Ambient scan</b>	26/43		26/43			Information only.	
	<b>Surface Poll button</b>	27/44		25/42			85°C TB4C	
	<b>Surface on button</b>	29/46		29/46			85°C TB4C	
	<b>Handle surface metal</b>	26/43		25/42			60°C TB4C	
	<b>Surface handle rubber</b>	25/42		25/42			85°C TB4C	
	<b>Ambient input</b>	34/51		34/51			Information only.	
	<b>Ambient scanner</b>	35/52		35/52			Information only.	
	<b>Metal surface under scanner</b>	34/51		34/51			70°C TB4C	
	<b>Audio junction</b>	31/48		32/49			70°C TB4C	
	<b>Scan cover</b>	26/43		26/43			95°C TB4C	
	<b>Tablet ambient coin cell battery</b>	48/65		48/65			Information only.	
	<b>Tablet surface switch</b>	36/53		35/52			70°C TB4C	
	<b>Tablet surface battery connector</b>	39/56		39/56			95°C TB4C	
	<b>Surface interface</b>	41/58		41/58			60°C TB4C	
	<b>Surface touch screen</b>	36/53		26/53			65°C TB4C	
	<b>tablet back surface</b>	32/49		32/49			95°C TB4C	
Supplementary information: Verity Scan Tesedt by T. Macais TB4C = Table 4C Tests18-19: 11/12/2014 19.1°C@33%RH TEST18: USB1 (compartment) short; TEST19: USB2 (compartment) short								
Temperature 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
-		-	-	-	-	-	-	-
Supplementary information: Not applicable.								

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

4.5.5	TABLE: Ball pressure test of thermoplastic parts			N/A
	Allowed impression diameter (mm) .....	≤ 2 mm		—
Part	Test temperature (°C)	Impression diameter (mm)		
-	-	-		
Supplementary information: Not applicable.				

4.7	TABLE: Resistance to fire					N/A
Part	Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence	
-	-	-	-	-	-	
Supplementary information: Not applicable.						

5.1	TABLE: touch current measurement			N/A
Measured between:	Measured (mA)	Limit (mA)	Comments/conditions	
-	-	-	-	
supplementary information: Not applicable.				

5.2	TABLE: Electric strength tests, impulse tests and voltage surge tests			N/A
Test voltage applied between:	Voltage shape (AC, DC, impulse, surge)	Test voltage (V)	Breakdown Yes / No	
-	-	-	-	
Supplementary information: Not applicable.				

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

5.3	TABLE: Fault condition tests						P
	Ambient temperature (°C) .....					23	—
	Power source for EUT: Manufacturer, model/type, output rating .....					TDK Lambda GEN1500W	—
Component No.	Fault	Supply voltage (V)	Test time	Fuse #	Fuse current (A)	Observation	
Verity Scan	USB 1 short circuit	22.8	01:27:00	-	-	Equipment continued to operate normally.	
Verity Scan	USB 2short circuit	22.8	01:17:00	-	-	Equipment continued to operate normally.	
Verity Scan	RCA port short circuit	22.8	01:18:00	-	-	Equipment continued to operate normally..	
Verity Scan	Battery short circuit	22.8	01:02:00	-	-	Equipment continued to operate normally.	
Verity Scan	Tablet UBS short circuit	22.8	01:02:00	-	-	Equipment continued to operate normally.	
Verity Scan	Tablet connector short circuit	22.8	01:03:00	-	-	Equipment continued to operate normally.	
Verity Touch Writer	Battery short circuit	22.8	01:02:00	-	-	Equipment continued to operate normally.	
Verity Touch Writer	USB 1 short circuit	22.8	01:27:00	-	-	Equipment continued to operate normally.	
Verity Touch Writer	USB 2short circuit	22.8	01:17:00	-	-	Equipment continued to operate normally.	
Verity Touch Writer	Printer short circuit	22.8	01:07:00	-	-	Equipment continued to operate normally.	
Verity Touch Writer	RCA port short circuit	22.8	01:18:00	-	-	Equipment continued to operate normally.	
Verity Touch Writer	Tablet UBS short circuit	-	01:02:00	-	-	Main unit shutdown, Tablet continued to operate normally.	
Verity Touch Writer	Tablet connector short circuit	22.8	01:03:00	-	-	Equipment continued to operate normally.	
Supplementary information: None.							

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

<b>C.2</b>	<b>TABLE: transformers</b>	<b>N/A</b>
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Loc.	Tested insulation	Working voltage peak / V (2.10.2)	Working voltage rms / V (2.10.2)	Required electric strength (5.2)	Required clearance / mm (2.10.3)	Required creepage distance / mm (2.10.4)	Required distance thr. insul. (2.10.5)
-	-	-	-	-	-	-	-
Loc.	Tested insulation			Test voltage/ V	Measured clearance / mm	Measured creepage dist./ mm	Measured distance thr. insul. / mm; number of layers
-	-			-	-	-	-

supplementary information:

Not applicable.

<b>C.2</b>	<b>TABLE: transformers</b>	<b>N/A</b>
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Transformer
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**List of test equipment used:**

A completed list of used test equipment shall be provided in the Test Reports when a Manufacturer Testing Laboratory according to TMP/CTF stage 1 or WMT/CTF stage 2 procedure has been used.

Clause	Measurement / testing	Testing / measuring equipment / material used	Range used	Calibration date
All	Lab environment	1801/Weather Station	-	05/29/2014 05/29/2015
1.6.2; 4.5	Input Current	2157/ Power Supply, DC	0-30 Vd.c.	CBU
1.6.2	Input current; Voltage	1654/ Multimeter	0-5A; 0-30Vdc	04/30/2015
1.6.2	Input current	1687/Cap/Leakage Current Switch Box	-	01/24/2015
1.6.2	Input current	2007/Cap/Leakage Current Switch Box	-	07/15/2015
1.6.2	Input Current	1330/1883 / AC Power supply	0-270 V AC	CBU
4.5	Thermal	2000/Data Acquisition	-	01/20/2015
4.5	Thermal	1708/20-Channel Multiplexer Card	-	11/20/2014
4.5	Thermal	0873/20-Channel Multiplexer Card	-	06/10/2015
4.2.5	Impact test	1651/Steel Ball, 50mm, 500g	-	12/15/2008 (ICO)
4.2.5	Impact test	2058/Guide Tube, Impact Test	-	05/16/2013 (ICO)
4.2; 1.7.11	Steady force; Durability	1891/Stop Watch		04/08/2014
4.2.4	Steady force	2003/ Force Gauge	0-300N	11/07/2014
4.3.2	Handels	G001/Force Gauge	0-30 lbf	05/16/2014
2.1.1.1; 4.2	Access to energized parts; Steady force	0358/ Safety Test Probe Set	-	09/01/2012 (ICO)
4.1	Stability	1740/Digi-Level Protractor	-	03/11/2014