

UL TEST REPORT AND PROCEDURE

Standard:	UL 60950-1, 2nd Edition, 2007-03-27 (Information Technology Equipment - Safety - Part 1: General Requirements) CSA C22.2 No. 60950-1-07, 2nd Edition, 2007-03 (Information Technology Equipment - Safety - Part 1: General Requirements)
Certification Type:	Information Technology Equipment Including Electrical Business Equipment
CCN:	NWGQ, NWGQ7
Product:	Game Pad
Model:	G-R0001
Rating:	Optional, 3Vdc, 180mA
Applicant Name and Address:	WANLIDA GROUP CO LTD 618 JIAHE RD XIAMEN FUJIAN 361006 CHINA

This is to certify that representative samples of the products covered by this Test Report have been investigated in accordance with the above referenced Standards. The products have been found to comply with the requirements covering the category and the products are judged to be eligible for Follow-Up Service under the indicated Test Procedure. The manufacturer is authorized to use the UL Mark on such products which comply with this Test Report and any other applicable requirements of Underwriters Laboratories Inc. ('UL') in accordance with the Follow-Up Service Agreement. Only those products which properly bear the UL Mark are considered as being covered by UL's Follow-Up Service under the indicated Test Procedure.

The applicant is authorized to reproduce the referenced Test Report provided it is reproduced in its entirety.

Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

Prepared by: Vivianne Peng
Underwriters Laboratories Inc.



Reviewed by: Stephen Ho
Underwriters Laboratories Inc.



Supporting Documentation

The following documents located at the beginning of this Procedure supplement the requirements of this Test Report:

- A. Authorization - The Authorization page may include additional Factory Identification Code markings.
- B. Generic Inspection Instructions -
 - i. Part AC details important information which may be applicable to products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of this Test Report.
 - ii. Part AE details any requirements which may be applicable to all products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of each Test Report.
 - iii. Part AF details the requirements for the UL Certification Mark which is not controlled by the technical standard used to investigate these products. Products are permitted to bear only the Certification Mark(s) corresponding to the countries for which it is certified, as indicated in each Test Report.

Product Description

-- Electronic components were mounted on PWB and housed within a plastic enclosure.

Model Differences

N/A

Technical Considerations

- Equipment mobility : hand-held
- Connection to the mains : No direct connection to the mains
- Operating condition : continuous
- Over voltage category : OVC I
- Mains supply tolerance (%) : No direct connection
- Tested for IT power systems : No
- IT testing, phase-phase voltage (V) : N/A
- Class of equipment : Class III (supplied by SELV)
- Mass of equipment (kg) : 0.24
- Pollution degree : PD 2
- IP protection class : IP X0
- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: 40

- The unit was supplied by Limited Power source (LPS) from the output of the AA alkaline or Carbon-Zinc AA .

Additional Information

N/A

Markings and instructions

Clause Title	Marking or Instruction Details
Power rating - Company identification	Listee's or Recognized company's name, Trade Name, Trademark or File Number
Power rating - Model	Model Number
Replaceable batteries	"CAUTION: Risk of Explosion if Battery is replaced by an Incorrect Type. Dispose of Used Batteries According to the Instructions."
Other	ACCESSORY marking to be provided on equipment along with "Use only with Listed ITE" or equivalent statement. The statement "Use only with Listed ITE" may be provided as either a marking or instruction.

Special Instructions to UL Representative

N/A

Production-Line Testing Requirements

Electric Strength Test Special Constructions - Refer to Generic Inspection Instructions, Part AC for further information.

Model	Component	Removable Parts	Test probe location	V rms	V dc	Test Time, s
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Earthing Continuity Test Exemptions - This test is not required for the following models:

Refer to the Model identification or type reference information at the beginning of this Test Report.

Electric Strength Test Exemptions - This test is not required for the following models:

Refer to the Model identification or type reference information at the beginning of this Test Report.

Electric Strength Test Component Exemptions - The following solid-state components may be disconnected from the remainder of the circuitry during the performance of this test:

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Sample and Test Specifics for Follow-Up Tests at UL

Model	Component	Material	Test	Sample(s)	Test Specifics
N/A					

TABLE: List of Critical Components

Object/part No.	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
01. Enclosure	Various	Various	Min. HB, 60 degree C, approximately 155 mm by 98mm by 53.7mm.	QMFZ2	UL
02. Printed Wiring Board	Various	Various	V-1 minimum, 105 degree C	ZPMV2	UL
03. Connectors and Receptacles	Various	Various	Rated V-2 minimum.	QMFZ2ECBT2RT RT2	UL
04. Internal Plastic Part Materials	Various	Various	Rated V-2 minimum.	QMFZ2	UL
05. Battery (optional)	Various	Various	Non Rechargeable AA alkaline or Carbon-Zinc AA battery. (two provided max.)	--	--
06. Receiver (optional)	Various	Various	rated 5 Vdc	NWGG	UL
07. DC Motor 1	Shen Guang Science & Technology CO., Ltd.	SRF-300CA-11420-B-R	DC 1.5 V ~4.5 V, 0.068 A, 2900 rpm.	--	--
07a. DC Motor 2 (Alt.)	Shen Guang Science & Technology CO., Ltd.	SRF-300CA-11420-S-R / R6.0*3.6	DC 1.5 V ~4.5 V, 0.04 A max., 3300 rpm.	--	--
08. Wiring, internal secondary ELV/SELV circuits	--	--	FEP, PTFE, PVC, TFE, neoprene, polyimide or marked "VW-1"; 60 degree C, minimum 30V	AVLV2	UL

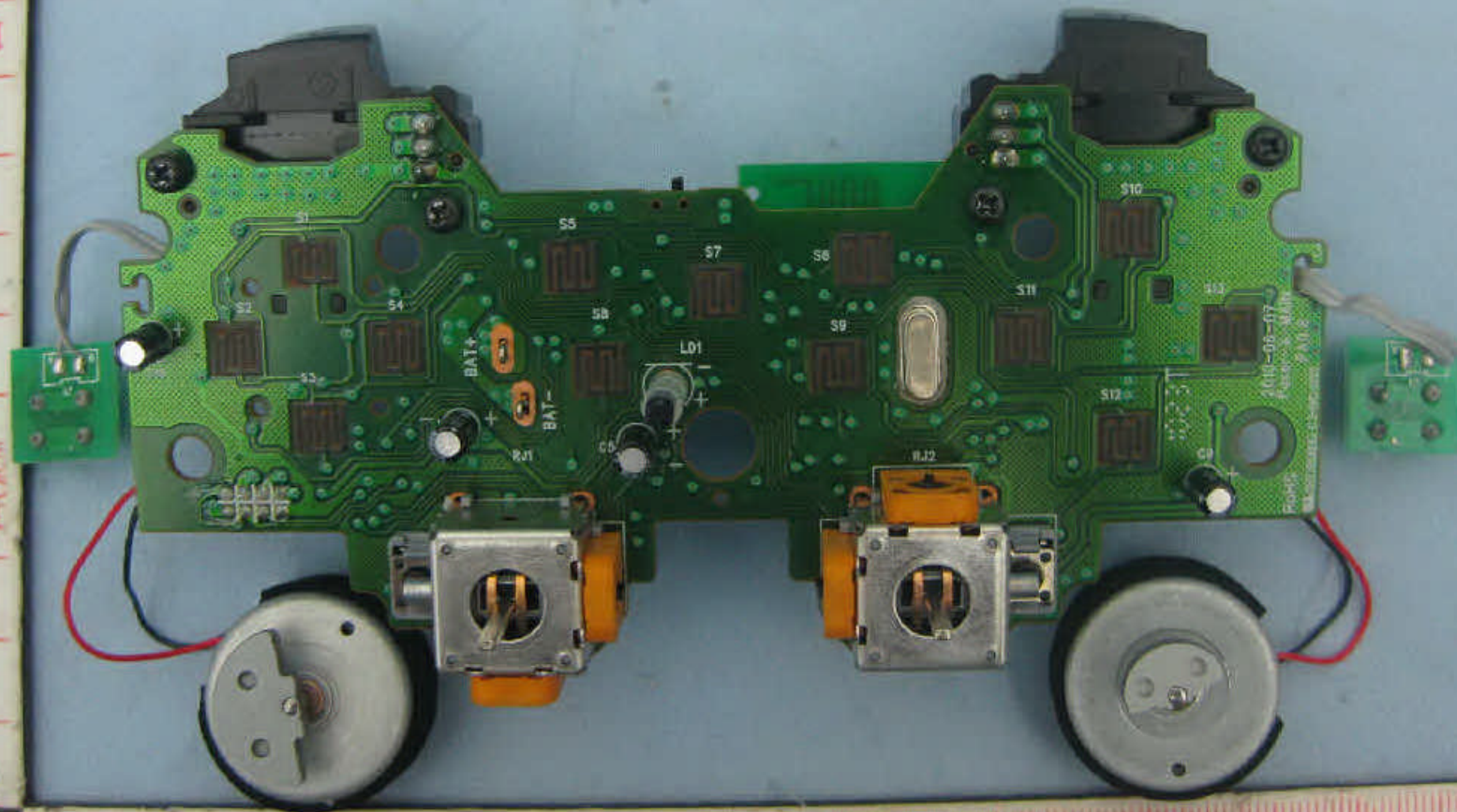
Enclosures

<u>Type</u>	<u>Supplement Id</u>	<u>Description</u>
Photographs	3-01	Overall view-1
Photographs	3-02	Overall view-2
Photographs	3-03	Internal view
Photographs	3-04	Mainboard-1
Photographs	3-05	Mainboard-2
Diagrams		
Schematics + PWB		
Manuals		
Miscellaneous		











Test Record No. 1

--The manufacturer submitted representative production sample(s) of Game Pad, Model G-R0001.

-- Tests were conducted by Prodigy Technology Consultant Co. Ltd., Taipei county, / 1FL, No. 181, sec. 2, Wunhua 1st Rd., Linko Township, Taipei, Taiwan, under the TPTDP.

-- The test methods and results of the following tests have been reviewed and found to be in accordance with the requirements in the Standards noted above. Test results are valid only for the tested equipment.

-- The unit was considered movable with exposed SELV circuit.

-- Test result reported relate only to the items tested.

The following tests were conducted:

Test	Testing Location/Comments
End Product Reference Page	
General Guidelines	
Input: Single-Phase (1.6.2)	
Abnormal Operation (5.3.1 - 5.3.9)	
Locked-Rotor Overload for DC Motors in Secondary Circuits (Annex B.7)	

Test results are valid only for the tested equipment. These tests are considered representative of the products covered by this Test Report. The test methods and results of the above tests have been reviewed and found to be in accordance with the requirements in the Standard(s) referenced at the beginning of this Test Report.

The following tests were waived:

Test	Rationale for Waiving
Heating (4.5.1, 1.4.12, 1.4.13)	due to input test result is low wattage consumption.

The following supplements are provided as a part of this Test Record. NOTE: These supplements are only available to the Applicant via the CDA system.

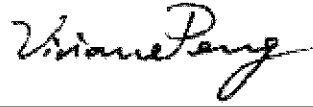
Type	Supplement Id	Description
Attachment	2-01	CRD
Datasheet	2-02	Datasheet

Project: 10CA36049File: E313912

Page 1 of 2

Compliance Review
Conducted by:

Vivianne Peng



2010-07-15

Printed Name

Signature

Date

CONSTRUCTION COMPLIANCE REVIEW RECORD**SAMPLE IDENTIFICATION:**

Sample Card #	Date Received	Sample #	Manufacturer, Product Identification and Ratings
1003254	2010-07-05	01	Wanlida Groupt Co Ltd., Game pad, Model G-R0001 Rating: Optional, 3Vdc, 180mA
1003254A01	2010-07-05	02	Shen Guang Science & Technology CO., Ltd., Motor, Model SRF-300CA-11420-B-R, Rating: 1.5-4.5 Vdc
1003254A02	2010-07-05	03	Shen Guang Science & Technology CO., Ltd., Motor, Model SRF-300CA-11420-S-R

[] Indications of compliance apply to all samples identified with specific compliance included for construction differences of the different samples.

MEASUREMENT INSTRUMENT INFORMATION: (Ex. Micrometer, Calipers, Comparator)

Inst. ID #	Instrument Type	Function/Range	Last Cal. Date	Next Cal. Date
See next page	--	--	--	--
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The following additional information is required when using client's or rented equipment, or when a UL ID Number for an instrument number is not used. The Inst. ID # below corresponds to the Inst. ID # above.

Inst. ID #	Make / Model / Serial Number / Asset No.
See next page	--
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[] Test equipment information is recorded on UL's Laboratory Project Management (LPM)/Laboratory Equipment Management (LEM) database. (This statement may be selected only if datasheets are completed electronically at a UL facility)

CONSTRUCTION COMPLIANCE REVIEW:

The sample was reviewed for compliance with the construction requirements in the standard(s) indicated below and a complete record including measurements to support compliance with those requirements is detailed in Report Reference Number E313912-A35

- Standard(s):**
- ☒ CSA C22.2 No. 60950-1-07, 2nd Edition, 2007-03 (Information Technology Equipment - Safety - Part 1: General Requirements)
 - ☒ UL 60950-1, 2nd Edition, 2007-03-27 (Information Technology Equipment - Safety - Part 1: General Requirements)
 - ☐ UL 60950-1, 2nd Edition, 2007-03-27 (Information Technology Equipment - Safety - Part 1: General Requirements); CSA C22.2 No. 60950-1-07, 2nd Edition, 2007-03 (Information Technology Equipment - Safety - Part 1: General Requirements); IEC 60950-1:2005 Second Edition

PTC equipment list

File: E313912 Project: 10CA36049

(Used)	Instr No. S/N.	Range Used	Instruments, Type	Maker	Model	Calibration Date	Calibration Due
(X)	26- 414336	0-150Kg	Electronic Balance	Kingship	GRW-150	11-03-2009	11-02-2010
()	33- 1 0603	Ø 3mm	Test Pin	Asia QTech	TPP-1	10-23-2009	10-22-2012
()	33- 2 0601	Ø 12mm	Un-jointed Test Finger	Asia QTech	UFP-2	10-23-2009	10-22-2012
()	33- 3 0604	Ø 12mm	Jointed Test Finger	Asia QTech	TFP-1	10-23-2009	10-22-2012
()	33- 4 0605	Ø 12mm	TNV Tesst Probe	Asia QTech	TTP-1	10-23-2009	10-22-2012
()	33- 7 NOUN SN	For IEC 60601-1 & 60065	UL Jointed Test Finger	ED&D	ULP-01	10-23-2009	10-22-2012
()	33- 8 NOUN SN	Ø 4mm	Tesst Probe	UNKNOW	UNKNOW	11-13-2009	11-12-2012
()	33- 9 NOUN SN	Ø 2.5mm	Tesst Probe	UNKNOW	UNKNOW	11-13-2009	11-12-2012
()	33- 10 NOUN SN	Ø 1mm	Tesst Probe	UNKNOW	UNKNOW	11-13-2009	11-12-2012
()	33-14 E020310	8.6mm	IEC Test Finger	Asia QTech	WZ-1	05-07-2010	05-06-2013
()	33-15 E020310	5.6mm	IEC Test Finger	Asia QTech	WZ-2	05-07-2010	05-06-2013
(x)	39- 06158123	0-150mm	Digimatic Caliper	Mitutoyo	500-196-20	11-03-2009	11-02-2010
(x)	40- 6090806001	0-5M	Measuring Tape	Ultra	01010351B1	11-03-2009	11-02-2010
()	68- 810110T1404	0-600g	Electronic Balance	Jadever	SKY-600T	05-08-2009	05-07-2010

2010-07-15 Vivianne Peng / 

Project: 10CA31059

File: E313912

Page 1 of 1

Compliance Review
Conducted by:

Stephen zhang



2010-07-09

Printed Name

Signature

Date

CONSTRUCTION COMPLIANCE REVIEW RECORD**SAMPLE IDENTIFICATION:**

Sample Card #	Date Received	Sample #	Manufacturer, Product Identification and Ratings
7	2010-06-11	TS1006089	WANLIDA GROUP CO., LTD. Z1 Input: 15V $\overline{\text{---}}$ 1A, output: 5V $\overline{\text{---}}$ 800mA*3
-	-	-	-
-	-	-	-

MEASUREMENT INSTRUMENT INFORMATION: (Ex. Micrometer, Calipers, Comparator)

Inst. ID #	Instrument Type	Function/Range	Last Cal. Date	Next Cal. Date
--	--	--	--	--
-	-	-	-	-
-	-	-	-	-

Test equipment information is recorded on UL's Laboratory Project Management (LPM)/Laboratory Equipment Management (LEM) database.

The following additional information is required when using client's or rented equipment, or when a UL ID Number for an instrument number is not used. The Inst. ID # below corresponds to the Inst. ID # above.

Inst. ID #	Make / Model / Serial Number / Asset No.
-	-
-	-
-	-

CONSTRUCTION COMPLIANCE REVIEW:

The sample was reviewed for compliance with the construction requirements in the standard(s) indicated below and a complete record including measurements to support compliance with those requirements is detailed in Report Reference Number E313912-A33.

- Standard(s):
- ☒ CSA C22.2 No. 60950-1-07, 2nd Edition, 2007-03 (Information Technology Equipment - Safety - Part 1: General Requirements)
 - ☒ UL 60950-1, 2nd Edition, 2007-03-27 (Information Technology Equipment - Safety - Part 1: General Requirements)
 - ☐ UL 60950-1, 2nd Edition, 2007-03-27 (Information Technology Equipment - Safety - Part 1: General Requirements); CSA C22.2 No. 60950-1-07, 2nd Edition, 2007-03 (Information Technology Equipment - Safety - Part 1: General Requirements); IEC 60950-1:2005 Second Edition

DATA PACKAGE INFORMATION SHEET

Total pages 14

Applicant Information	Name / Address: WANLIDA GROUP CO LTD 618 JIAHE RD XIAMEN FUJIAN 361006 CHINA
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Product Information	Standard: UL 60950-1, 2nd Edition, 2007-03-27 (Information Technology Equipment - Safety - Part 1: General Requirements) CSA C22.2 No. 60950-1-07, 2nd Edition, 2007-03 (Information Technology Equipment - Safety - Part 1: General Requirements)
CCNs:	NWGQ/NWGQ7
Product:	Wireless Home/Office Charging Station
Models:	WCH-9001, Z1, Z2

Test Location Information	DAP and UL: <input type="checkbox"/> CTD <input type="checkbox"/> TCP <input type="checkbox"/> TPTDP <input checked="" type="checkbox"/> WTDP <input type="checkbox"/> UL CB Scheme: <input type="checkbox"/> CBT <input type="checkbox"/> RMT <input type="checkbox"/> SMT <input type="checkbox"/> TMP <input type="checkbox"/> WMT						
	Test Location Name/Address: Shenzhen Timeway Technology Consulting Co.,Ltd. East 5/block 4, Anhua Industrial Zone, No.8 Tairan Rd. Chegongmiao, Futian District, Shenzhen China						
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; border-right: 1px solid black; padding: 2px 5px;">Tests Conducted By**:</td> <td style="padding: 2px 5px;">Sign Dustin Li</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 2px 5px;"></td> <td style="padding: 2px 5px;">Print Dustin Li</td> </tr> </table>	Tests Conducted By**:	Sign Dustin Li		Print Dustin Li		
Tests Conducted By**:	Sign Dustin Li						
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	** When all tests are conducted by one person, the printed name and signature can be inserted here instead of on each page containing data						
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; border-right: 1px solid black; padding: 2px 5px;">Authorized Signatory or TCP Reviewer:</td> <td style="padding: 2px 5px;">Sign N/A</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 2px 5px;"></td> <td style="padding: 2px 5px;">Print N/A</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 2px 5px;"></td> <td style="padding: 2px 5px;">Date N/A</td> </tr> </table>	Authorized Signatory or TCP Reviewer:	Sign N/A		Print N/A		Date N/A
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	Date N/A						
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UL WTDP / WMT Witness:	Sign Stephen zhang						
	Print Stephen zhang						

Reviewed & Accepted By	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; border-right: 1px solid black; padding: 2px 5px;">Qualified Project Handler:</td> <td style="padding: 2px 5px;">Sign Stephen zhang</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 2px 5px;"></td> <td style="padding: 2px 5px;">Print Stephen zhang</td> </tr> </table>	Qualified Project Handler:	Sign Stephen zhang		Print Stephen zhang
Qualified Project Handler:	Sign Stephen zhang				
	Print Stephen zhang				

IEC 60950-1:2005			
Clause	Requirement + Test	Result - Remark	Verdict
1	GENERAL		Pass
1.5	Components		Pass
1.5.1	General		Pass
	Comply with IEC 60950 or relevant component standard	(see appended table 1.5.1)	Pass
1.5.2	Evaluation and testing of components	<p>Components certified to IEC harmonized standard and checked for correct application.</p> <p>Components, for which no relevant IEC-Standard exist, have been tested under the conditions occurring in the equipment, using applicable parts of IEC 60950-1.</p> <p>Components not certified are used in accordance with their ratings and they comply with applicable parts of IEC 60950-1 and the relevant component Standard.</p>	Pass
1.5.3	Thermal controls	No thermal controls provided.	N/A
1.5.4	Transformers	No transformer provided.	N/A
1.5.5	Interconnecting cables		N/A
1.5.6	Capacitors bridging insulation	No X capacitor or Y capacitor used.	N/A
1.5.7	Resistors bridging insulation		N/A
1.5.7.1	Resistors bridging functional, basic or supplementary insulation		N/A
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits		N/A
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable	No bridging resistor.	N/A
1.5.7.4	Accessible parts		N/A
1.5.8	Components in equipment for IT power systems		N/A
1.5.9	Surge suppressors		N/A
1.5.9.1	General		N/A
1.5.9.2	Protection of VDRs		N/A

IEC 60950-1:2005			
Clause	Requirement + Test	Result - Remark	Verdict

1.5.9.3	Bridging of functional insulation by a VDR		N/A
1.5.9.4	Bridging of basic insulation by a VDR		N/A
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR		N/A

1.6	Power interface		Pass
1.6.1	AC power distribution systems	Not directly connect to AC mains.	N/A
1.6.2	Input current		Pass
1.6.3	Voltage limit of hand-held equipment		N/A
1.6.4	Neutral conductor		N/A

IEC 60950-1:2005			
Clause	Requirement + Test	Result - Remark	Verdict

1.7	Marking and instructions		Pass
1.7.1	Power rating		Pass
	Rated voltage(s) or voltage range(s) (V) :	Refer to the Rating information at the beginning of this Test Report.	Pass
	Symbol for nature of supply, for d.c. only :	IEC 60417 No. 5031 provided on marking label.	Pass
	Rated frequency or rated frequency range (Hz) :		N/A
	Rated current (mA or A)..... :	Refer to the Rating information at the beginning of this Test Report.	Pass
	Manufacturer's name or trademark or identification mark :	WANLIDA GROUP CO LTD. or E313912.	Pass
	Model identification or type reference..... :	Refer to the Model information at the beginning of this Test Report.	Pass
	Symbol for Class II equipment only :		N/A
	Other markings and symbols..... :	Additional markings are used and are defined in the installation instructions.	Pass
1.7.2	Safety instructions and marking	Operating/safety instructions made available to the user.	N/A
1.7.2.1	General		N/A
1.7.2.2	Disconnect devices		N/A
1.7.2.3	Overcurrent protective device		N/A
1.7.2.4	IT Power distribution systems		N/A
1.7.2.5	Operator access with a tool		N/A
1.7.2.6	Ozone		N/A
1.7.3	Short duty cycles		N/A
1.7.4	Supply voltage adjustment..... :		N/A
	Method and means of adjustment; reference to installation instructions..... :		N/A
1.7.5	Power outlets on the equipment :		N/A
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference) :		N/A
1.7.7	Wiring terminals		N/A

IEC 60950-1:2005			
Clause	Requirement + Test	Result - Remark	Verdict

1.7.7.1	Protective earthing and bonding terminals :		N/A
1.7.7.2	Terminal 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		Pass
1.7.8.1	Identification, location and marking :		N/A
1.7.8.2	Colours..... :	Only functional indicators use color.	Pass
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	All markings provided on UL Recognized Component labels suitable for surface they are applied upon and meet the durability test. or, Silk Screen considered to meet the requirements of this standard without testing.	Pass
1.7.12	Removable parts		N/A
1.7.13	Replaceable batteries :	The lithium battery is not located in an Operator Access Area. The required warning is in the service manual.	N/A
	Language(s)..... :	Only English language reviewed.	-
1.7.14	Equipment for restricted access locations :	Equipment not intended for installation in a RESTRICTED ACCESS LOCATION.	N/A

IEC 60950-1:2005			
Clause	Requirement + Test	Result - Remark	Verdict

2	PROTECTION FROM HAZARDS		Pass
2.1	Protection from electric shock and energy hazards		Pass
2.1.1	Protection in operator access areas		Pass
2.1.1.1	Access to energized parts	Unit supplied by SELV and no hazardous voltage is generated within unit.	Pass
	Test by inspection..... :	Unit supplied by SELV and no hazardous voltage is generated within unit.	Pass
	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	No internal wiring accessible to the user.	N/A
2.1.1.5	Energy hazards..... :	No energy hazards exist in this product.	N/A
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 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

IEC 60950-1:2005			
Clause	Requirement + Test	Result - Remark	Verdict

2.2	SELV circuits		Pass
2.2.1	General requirements	Class III unit intended to be supplied by an external SELV power adaptor.	Pass
2.2.2	Voltages under normal conditions (V) :	All accessible voltages are less than 42.4 V _{peak} or 60 V _{dc} and are classified as SELV.	Pass
2.2.3	Voltages under fault conditions (V)..... :		N/A
2.2.4	Connection of SELV circuits to other circuits..... :	SELV circuits are only connected to other secondary circuits (SELV or LIMITED CURRENT CIRCUIT).	Pass

2.3	TNV circuits		N/A
-----	---------------------	--	-----

2.4	Limited current circuits		N/A
-----	---------------------------------	--	-----

2.5	Limited power sources		N/A
-----	------------------------------	--	-----

2.6	Provisions for earthing and bonding		N/A
-----	--------------------------------------------	--	-----

2.7	Overcurrent and earth fault protection in primary circuits		N/A
-----	-------------------------------------------------------------------	--	-----

2.8	Safety interlocks		N/A
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IEC 60950-1:2005			
Clause	Requirement + Test	Result - Remark	Verdict

2.9	Electrical insulation		Pass
2.9.1	Properties of insulating materials		N/A
2.9.2	Humidity conditioning		N/A
	Relative humidity (%), temperature (°C)..... :		-
2.9.3	Grade of insulation	Functional insulation only.	Pass
2.9.4	Separation from hazardous voltages		N/A
	Method(s) used..... :		-

2.10	Clearances, creepage distances and distances through insulation		N/A
------	------------------------------------------------------------------------	--	-----

3	WIRING, CONNECTIONS AND SUPPLY		Pass
3.1	General		Pass
3.1.1	Current rating and overcurrent protection		Pass
3.1.2	Protection against mechanical damage	The wires are routed away from sharp edges/parts which could damage insulation	Pass
3.1.3	Securing of internal wiring		Pass
3.1.4	Insulation of conductors		N/A
3.1.5	Beads and ceramic insulators	The unit does not have any beads or similar insulators.	N/A
3.1.6	Screws for electrical contact pressure	The equipment does not have any screw-type connections.	N/A
3.1.7	Insulating materials in electrical connections	No contact pressure through insulating material.	N/A
3.1.8	Self-tapping and spaced thread screws		N/A
3.1.9	Termination of conductors		N/A
	10 N pull test		N/A
3.1.10	Sleeving on wiring	Sleeving is not used as supplementary insulation.	N/A

3.2	Connection to mains supply		N/A
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Clause	Requirement + Test	Result - Remark	Verdict

3.3	Wiring terminals for connection of external conductors		N/A
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3.4	Disconnection from the mains supply		N/A
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3.5	Interconnection of equipment		Pass
3.5.1	General requirements	Interconnection circuit selected to provided conformance to the requirements of 2.2 for SELV CIRCUITS.	Pass
3.5.2	Types of interconnection circuits	Interconnection circuits are SELV CIRCUITS.	Pass
3.5.3	ELV circuits as interconnection circuits		N/A
3.5.4	Data ports for additional equipment		N/A

4	PHYSICAL REQUIREMENTS		Pass
4.1	Stability		N/A
	Angle of 10°		N/A
	Test force (N)		N/A

4.2	Mechanical strength		N/A
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Clause	Requirement + Test	Result - Remark	Verdict

4.3	Design and construction		Pass
4.3.1	Edges and corners	All edges and corners are judged to be sufficiently well rounded so as not to constitute a hazard.	Pass
4.3.2	Handles and manual controls; force (N) :		N/A
4.3.3	Adjustable controls		N/A
4.3.4	Securing of parts		N/A
4.3.5	Connection by plugs and sockets		N/A
4.3.6	Direct plug-in equipment	Not direct plug-in equipment.	N/A
	Torque..... :		N/A
	Compliance with the relevant mains plug standard:		N/A
4.3.7	Heating elements in earthed equipment		N/A
4.3.8	Batteries		N/A
	- Overcharging of a rechargeable battery		N/A
	- Unintentional charging of a non-rechargeable battery		N/A
	- Reverse charging of a rechargeable battery		N/A
	- Excessive discharging of any battery		N/A
4.3.9	Oil and grease	The insulation of the internal wiring is not exposed to oil, grease, etc.	N/A
4.3.10	Dust, powders, liquids and gases	The equipment does not produce dust or employ powders, liquids or gases.	N/A
4.3.11	Containers for liquids or gases	The equipment does not contain liquids.	N/A
4.3.12	Flammable liquids..... :	The equipment does not use any flammable liquids.	N/A
	Quantity of liquid (l)..... :		N/A
	Flash point (°C)..... :		N/A
4.3.13	Radiation	The equipment does not generate ionizing radiation or contain flammable liquids or gases.	Pass
4.3.13.1	General		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

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.....		N/A
4.3.13.5	Laser (including LEDs)	This product contains only visible indicator LEDs (Class 1) operating in the range of 400 - 700 nm wavelength. No IEC60825-1 evaluation was deemed necessary.	Pass
	Laser class.....	(For indicator LEDs, see above statement.)	-
4.3.13.6	Other types		N/A

4.4	Protection against hazardous moving parts		N/A
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4.5	Thermal requirements		Pass
4.5.1	General		Pass
4.5.2	Temperature tests	The equipment and its component parts did not attain excessive temperatures during normal operation. (see appended table 4.5)	Pass
	Normal load condition per Annex L	Operated in the most unfavorable way of operation given in the operating instructions until steady conditions established.	-
4.5.3	Temperature limits for materials		Pass
4.5.4	Touch temperature limits		Pass
4.5.5	Resistance to abnormal heat.....		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

4.6	Openings in enclosures		N/A
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4.7	Resistance to fire		Pass
4.7.1	Reducing the risk of ignition and spread of flame		N/A
	Method 1, selection and application of components wiring and materials		N/A
	Method 2, application of all of simulated fault condition tests		N/A
4.7.2	Conditions for a fire enclosure	Supplied by LPS	Pass
4.7.2.1	Parts requiring a fire enclosure		N/A
4.7.2.2	Parts not requiring a fire enclosure	The unit did not require a fire enclosure.	Pass
4.7.3	Materials		Pass
4.7.3.1	General		Pass
4.7.3.2	Materials for fire enclosures	Supplied by LPS, Fire enclosure is not necessary.	N/A
4.7.3.3	Materials for components and other parts outside fire enclosures		Pass
4.7.3.4	Materials for components and other parts inside fire enclosures		N/A
4.7.3.5	Materials for air filter assemblies		N/A
4.7.3.6	Materials used in high-voltage components		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

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

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Clause	Requirement + Test	Result - Remark	Verdict

	reference to protective earth		
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5.2	Electric strength		N/A
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5.3	Abnormal operating and fault conditions		Pass
5.3.1	Protection against overload and abnormal operation		N/A
5.3.2	Motors		N/A
5.3.3	Transformers		N/A
5.3.4	Functional insulation	Method c	Pass
5.3.5	Electromechanical components		N/A
5.3.6	Audio amplifiers in ITE	Considered in normal heating test by setting the equipment with maximum volume.	N/A
5.3.7	Simulation of faults	(See appended table 5.3)	N/A
5.3.8	Unattended equipment		N/A
5.3.9	Compliance criteria for abnormal operating and fault conditions	No fire, emission of molten metal or deformation was noted during the tests.	N/A
5.3.9.1	During the tests		N/A
5.3.9.2	After the tests		N/A

6	CONNECTION TO TELECOMMUNICATION NETWORKS		N/A
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6.2	Protection of equipment users from overvoltages on telecommunication networks		N/A
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6.3	Protection of the telecommunication wiring system from overheating		N/A
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7	CONNECTION TO CABLE DISTRIBUTION SYSTEMS		N/A
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Clause	Requirement + Test	Result - Remark	Verdict
A	ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE		N/A
B	ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS(see 4.7.2.2 and 5.3.2)		N/A
C	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)		N/A
D	ANNEX D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS (see 5.1.4)		N/A
E	ANNEX E, TEMPERATURE RISE OF A WINDING (see 1.4.13)		N/A
F	ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10 and Annex G)		N/A
G	ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES		N/A
H	ANNEX H, IONIZING RADIATION (see 4.3.13)		N/A
J	ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)		N/A
K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.8)		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

L	ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)		Pass
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		Pass

M	ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)	N/A
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N	ANNEX N, IMPULSE TEST GENERATORS (see 1.5.7.2, 1.5.7.3, 2.10.3.9, 6.2.2.1, 7.3.2, 7.4.3 and Clause G.5)	N/A
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P	ANNEX P, NORMATIVE REFERENCES	Pass
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Q	ANNEX Q, Voltage dependent resistors (VDRs) (see 1.5.9.1)	N/A
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R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES	N/A
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S	ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)	N/A
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T	ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)	N/A
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U	ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)	N/A
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Clause	Requirement + Test	Result - Remark	Verdict
V	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)		N/A
W	ANNEX W, SUMMATION OF TOUCH CURRENTS		N/A
X	ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1)		N/A
Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)		N/A
Z	ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2 and Clause G.2)		N/A
AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)		N/A

Enclosure

National Differences

USA / Canada

IEC 60950-1:2005			
SubClause	Difference + Test	Result - Remark	Verdict

USA / Canada - Differences to IEC 60950-1:2005, Second Edition			
1.1	Equipment able to be installed in accordance with the National Electrical Code ANSI/NFPA 70 and the Canadian Electrical Code, Part1, and when applicable, the National Electrical Safety Code, IEEE C2.		Pass
1.1.1	Equipment able to be installed in accordance with ANSI/NFPA 75 and NEC Art. 645 unless intended for use outside of computer room and provided with such instructions.		Pass
1.1.2	Equipment in wire-line communication facilities serving high-voltage electric power stations operating at greater than 1kV are excluded.		N/A
1.1.2	Special requirements apply to equipment intended for use outdoors.		N/A
1.4.14	For Pluggable Equipment Type A, the protection in the installation is assumed to be 20 A.		N/A
1.5.1	All IEC standards for components identified in Annex P.1 replaced by the relevant requirements of CSA and UL component standards in Annex P.1.		Pass
1.5.1	All IEC standards for components identified in Annex P.2 alternatively satisfied by the relevant requirements of CSA and UL component standards in Annex P.2.		Pass
1.5.5	Interconnecting cables acceptable for the application regarding voltage, current, temperature, flammability, mechanical serviceability and the like.		N/A
1.5.5	For other than limited power and TNV circuits, the type of output circuit identified for output connector.		N/A
1.5.5	External cable assemblies that exceed 3.05 m in length to be types specified in the NEC and CEC.		N/A
1.5.5	Detachable external interconnecting cables 3.05 m or less in length and provided with equipment marked to identify the responsible organization and the designation for the cable.		N/A
1.5.5	Building wiring and cable for use in ducts, plenums and other air handling space subject to special requirements and excluded from scope.		N/A
1.5.5	Telephone line and extension cords and the like comply with UL 1863 and CSA C22.2 No. 233.		N/A
1.6.1.2	Equipment intended for connection to a d.c. power (mains) distribution system is subject to special		N/A

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SubClause	Difference + Test	Result - Remark	Verdict
	circuit classification requirements (e.g., TNV-2)		
1.6.1.2	Earthing of d.c. powered equipment provided.		N/A
1.7	Lamp replacement information indicated on lampholder in operator access area.		N/A
1.7.1	Special marking format for equipment intended for use on a supply system with an earthed neutral and more than one phase conductor.		N/A
1.7.1	Equipment voltage rating not higher than rating of the plug except under special conditions.		N/A
1.7.6	Special fuse replacement marking for operator accessible fuses.		N/A
1.7.7	Identification of terminal connection of the equipment earthing conductor.		N/A
1.7.7	Connectors and field wiring terminals for external Class 2 or Class 3 circuits provided with marking indicating minimum Class of wiring to be used.		N/A
1.7.7	Marking located adjacent to terminals and visible during wiring.		N/A
2.1.1.1	Bare TNV conductive parts in the interior of equipment normally protected against contact by a cover intended for occasional removal are exempt provided instructions include directions for disconnection of TNV prior to removal of the cover.		N/A
2.3.1.b	Other telecommunication signaling systems (e.g., message waiting) than described in 2.3.1(b) are subject to M.4.		N/A
2.3.1.b	For TNV-2 and TNV-3 circuits with other than ringing signals and with voltages exceeding 42.4 Vp or 60 V d.c., the maximum current limit through a 2000 Ohm or greater resistor with loads disconnected is 7.1 mA peak or 30 mA d.c. under normal conditions.		N/A
2.3.1.b	Limits for measurements across 5000 ohm resistor in the event of a single fault are replaced after 200 ms with the limits of M.3.1.4.		N/A
2.3.2.1	In the event of a single fault, the limits of 2.2.3 apply to SELV circuits and accessible conductive parts.		N/A
2.3.2.4	Enamel coating on signal transformer winding wire allowed as an alternative to Basic insulation in specific telecommunication applications when subjected to special construction requirements and routine testing.		N/A

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SubClause	Difference + Test	Result - Remark	Verdict

2.5	Overcurrent protection device required for Class 2 and Class 3 limiting in accordance with the NEC, or for a Limited Power Source, not interchangeable with devices of higher ratings if operator replaceable.		N/A
2.6	Equipment having receptacles for output a.c. power connectors generated from an internal separately derived source have the earthed (grounded) circuit conductor suitably bonded to earth.		N/A
2.6.3.3	For Pluggable Equipment Type A, if a) b) or c) are not applicable, the current rating of the circuit is taken as 20 A		N/A
2.6.3.4	Capacity of connection between earthing terminal and parts required to be earthed subject to special conditions based on the current rating of the circuit.		N/A
2.6.3.4	Protective bonding conductors and their terminals of non-standard constructions (e.g. PWB traces) evaluated to limited short-circuit test of CSA C22.2 No.0.4.		N/A
2.6.4.1	Field wiring terminals for earthing conductors suitable for wire sizes (gauge) used in US and Canada.		N/A
2.7.1	Data for selection of special external branch circuit overcurrent devices marked on the equipment.		N/A
2.7.1	Standard supply outlets protected by overcurrent device in accordance with the NEC, and CEC, Part 1.		N/A
2.7.1	Overcurrent protection for individual transformers that distribute power to other units over branch circuit wiring.		N/A
2.7.1	Additional requirements for overcurrent protection apply to equipment provided with panelboards.		N/A
2.7.1	Non-motor-operated equipment requiring special overcurrent protective device marked with device rating.		N/A
2.10.5.12	Multi-layer winding wire subject to UL component wire requirements in addition to 2.10.5.12 and Annex U.		N/A
3.1.1	Permissible combinations of internal wiring/external cable sizes for overcurrent and short circuit protection.		N/A
3.1.1	All interconnecting cables protected against		N/A

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SubClause	Difference + Test	Result - Remark	Verdict

	overcurrent and short circuit.		
3.2	Wiring methods permit connection of equipment to primary power supply in accordance with the NEC and CEC, Part 1.		N/A
3.2.1	Permitted use for flexible cords and plugs.		N/A
3.2.1	Flexible cords provided with attachment plug rated 125% of equipment current rating.		N/A
3.2.1	Any Class II equipment provided with 15 or 20 A standard supply outlets, Edison-base lampholders or single pole disconnect device provided with a polarized type attachment plug.		N/A
3.2.1.2	Equipment intended for connection to DC mains supply power systems complies with special wiring requirements (e.g., no permanent connection to supply by flexible cord).		N/A
3.2.1.2	Equipment with one pole of the DC mains supply connected to both the equipment mains input terminal and the main protective earthing terminal provided with special instructions and construction provisions for earthing		N/A
3.2.1.2	Equipment with means for connecting supply to earthing electrode conductor has no switches or protective devices between supply connection and earthing electrode connection.		N/A
3.2.1.2	Special markings and instructions for equipment with provisions to connect earthed conductor of a DC supply circuit to earthing conductor at the equipment.		N/A
3.2.1.2	Special markings and instructions for equipment with earthed conductor of a DC supply circuit connected to the earthing conductor at the equipment.		N/A
3.2.1.2	Terminals and leads provided for permanent connection of DC powered equipment to supply marked to indicate polarity if reverse polarity may result in a hazard.		N/A
3.2.3	Permanently connected equipment has provision for connecting and securing a field wiring system (i.e. conduit, or leads etc.) per the NEC and CEC, Part 1.		N/A
3.2.3	Permanently connected equipment may have terminals or leads not smaller than No. 18 AWG (0.82 mm ²) and not less than 150 mm in length for		N/A

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SubClause	Difference + Test	Result - Remark	Verdict
	connection of field installed wiring.		
3.2.3	If supply wires exceed 60 °C, marking indicates use of 75 °C or 90 °C wiring for supply connection as appropriate.		N/A
3.2.3	Equipment compatible with suitable trade sizes of conduits and cables.		N/A
3.2.5	Length of power supply cord limited to between 1.5 and 4.5 m unless shorter length used when intended for a special installation.		N/A
3.2.5	Conductors in power supply cords sized according to NEC and CEC, Part I.		N/A
3.2.5	Power supply cords and cord sets incorporate flexible cords suitable for the particular application.		N/A
3.2.6	Strain relief provided for non-detachable interconnecting cables not supplied by a limited power source.		N/A
3.2.9	Adequate wire bending space and volume of field wiring compartment required to properly make the field connections.		N/A
3.2.9	Equipment intended solely for installation in Restricted Access Locations using low voltage d.c. systems may not need provision for connecting and securing a field wiring system. A method of securing wiring or instructions provided to ensure the wiring is protected from abuse.		N/A
3.3	Field wiring terminals provided for interconnection of units for other than LPS or Class 2 circuits also comply with 3.3.		N/A
3.3	Interconnection of units by LPS or Class 2 conductors may have field wiring connectors other than those specified in 3.3 if wiring is reliably separated.		N/A
3.3.1	Terminals for the connection of neutral conductor identified by a distinctive white marking or other equally effective means.		N/A
3.3.3	Wire binding screw terminal permitted for connection of No. 10 AWG (5.3 mm ²) or smaller conductor if provided with upturned lugs, cupped washer or equivalent retention.		N/A
3.3.4	Terminals accept wire sizes (gauge) used in the U.S. and Canada.		N/A
3.3.4	Terminals accept current-carrying conductors rated		N/A

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SubClause	Difference + Test	Result - Remark	Verdict
	125% of the equipment current rating.		
3.3.6	Field wiring terminals marked to indicate the material(s) of the conductor appropriate for the terminals used.		N/A
3.3.6	Connection of an aluminum conductor not permitted to terminal for equipment earthing conductor.		N/A
3.3.6	Field wiring connections made through the use of suitable pressure connectors (including set screw type), solder lugs or splices to flexible leads.		N/A
3.4.2	Separate motor control device(s) required for cord-connected equipment rated more than 12 A, or with motor rated more than 1/3 hp or more than 120 V.		N/A
3.4.8	Vertically mounted disconnect devices oriented so up position of handle is "on".		N/A
3.4.11	For computer-room applications, equipment with battery systems capable of supplying 750 VA for 5 min require battery disconnect means.		N/A
4.2.8.1	Special opening restrictions for enclosures around CRTs with face dimension of 160 mm or more.		N/A
4.2.9	Compartment housing high-pressure lamp marked to indicate risk of explosion.		N/A
4.2.11	For equipment intended for mounting on racks and provided with slide/rails allowing the equipment to slide away from the rack for installation, service and maintenance, additional construction, performance and marking requirements are applicable to determine the adequacy of the slide/rails.		N/A
4.3.2	Loading test for equipment with handle(s) used to support more than 9 kg tested at four times the weight of the unit.		N/A
4.3.6	In addition to the IEC requirements, Direct Plug-in Equipment complies with UL 1310 or CSA 223 mechanical assembly requirements.		N/A
4.3.12	The maximum quantity of flammable liquid stored in equipment complies with ANSI/NFPA 30(Table NAE.6).		N/A
4.3.12	Equipment using replenishable liquids marked to indicate type of liquid to be used.		N/A
4.3.13.2	Equipment that produces x-radiation and does not comply with 4.3.12 under all conditions of servicing marked to indicate the presence of radiation where		N/A

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SubClause	Difference + Test	Result - Remark	Verdict
	readily visible.		
4.3.13.5	Requirements contained in the applicable national codes and regulations apply to lasers (21 CFR 1040 and REDR C1370).		N/A
4.7	Automated information storage equipment intended to contain more than 0.76 m ³ of combustible media requires provision for automatic sprinklers or a gaseous agent extinguishing system.		N/A
4.7.3.1	Equipment for use in environmental air space other than ducts or plenums provided with metal enclosure or with non-metallic enclosure having adequate fire-resistance and low smoke producing characteristics. Low smoke-producing characteristics evaluated according to UL 2043. Equipment for installation in space used for environmental air as described in Sec. 300-22(c) of the NEC provided with instructions indicating suitability for installation in such locations.		N/A
4.7.3.1	Flame spread rating for external surface of combustible material with exposed area greater than 0.93 m ² or a single dimension greater than 1.8 m; 50 or less for computer room applications or 200 or less for other applications.		N/A
4.7.3.4	Wire marked "VW-1" or "FT-1" considered equivalent.		Pass
5.1.8.2	Special earthing provisions and instructions for equipment with high touch current due to telecommunication network connections.		N/A
5.1.8.3	Touch current due to ringing voltage for equipment containing telecommunication network leads.		N/A
5.3.7	Overloading of SELV connectors and printed wiring board receptacles accessible to the operator.		N/A
5.3.7	Tests interrupted by opening of a component repeated two additional times.		N/A
5.3.9.1	Test interrupted by opening of wire or trace subject to certain conditions.		N/A
6	Specialized instructions provided for telephones that may be connected to a telecommunications network.		N/A
6	Marking identifying function of telecommunication type connectors not used for connection to a telecommunication network.		N/A

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SubClause	Difference + Test	Result - Remark	Verdict
6.3	Equipment remotely powered over telecommunication wiring systems provided with specialized markings adjacent to the connection.		N/A
6.3	Overcurrent protection incorporated into equipment to provide power over telecommunication wiring system not interchangeable with devices of higher ratings if operator replaceable.		N/A
6.4	Additional requirements for equipment intended for connection to a telecommunication network using cable subject to overvoltage from power line failures (Fig. 6C).		N/A
6.4	Where 26 AWG line cord required by Fig. 6C, either the cord is provided with the equipment or described in the safety instructions.		N/A
7	Equipment associated with the cable distribution system may need to be subjected to applicable parts of Chapter 8 of the NEC.		N/A
H	Ionizing radiation measurements made under single fault conditions in accordance with the requirements of the Code of Federal Regulations 21 CFR 1020 and the Canadian Radiation Emitting Devices Act, REDR C1370.		N/A
M.2	Continuous ringing signals evaluated to Method A subjected to special accessibility considerations.		N/A
M.4	Special requirements for message waiting and similar telecommunications signals.		N/A
NAC	Equipment intended for use with a generic secondary protector marked with suitable instructions.		N/A
NAC	Equipment intended for use with a specific primary or secondary protector marked with suitable instructions.		N/A
NAD	Acoustic pressure from an ear piece less than 136 dBA for short duration disturbances, and less than 125 dBA for handsets, 118 dBA for headsets, and 121 dBA for insert earphones, for long duration disturbances.		N/A
NAD	Equipment connected to a telecommunication and cable distribution networks and supplied with an earphone intended to be held against, or in the ear is required to comply with special acoustic pressure requirements.		N/A
NAF	Household/Home Office Document Shredders		N/A

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SubClause	Difference + Test	Result - Remark	Verdict
NAF.1.7	Markings and instructions alert the user to key safety considerations related to use of shredders, including not intended to be used by children, avoid touching document feed opening, avoid clothes and hair entanglement, and avoid aerosol products.		N/A
NAF.2.8.3	Safety interlock cannot be inadvertently activated by the articulated accessibility probe (figure NAF.1).		N/A
NAF.3.4	Provided with an isolating switch complying with 3.4.2, including 3 mm contact gap, with appropriate markings associated with the switch.		N/A
NAF.4.4	Hazardous moving parts are not accessible, as determined using the articulated accessibility probe (figure NAF.1) and the accessibility probe/wedge (figures NAF.2/NAF.3).		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

1.6.2	TABLE: electrical data (in normal conditions)						Pass
U (V)	I (A)	I rated (A)	P (W)	Fuse #	I fuse (A)	condition/status	
15Vdc	1.05	1.0	15.55	--	--	Maximum normal load.	
supplementary information:							
Test for reference only. Maximum normal load: 5Vdc, 800mA _{x3} .							

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:							

2.10.5	TABLE: distance through insulation measurements						N/A
Distance through insulation (DTI) at/of:	U peak (V)	Urms (V)	Test voltage (V)	Required DTI (mm)	DTI (mm)		
supplementary information:							

4.3.8	TABLE: Batteries								N/A
The tests of 4.3.8 are applicable only when appropriate battery data is not available.									
Is it possible to install the battery in a reverse polarity position?									
	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.

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Clause	Requirement + Test	Result - Remark	Verdict

Max. current during normal operation									
Test results:									Verdict
- Chemical leaks									N/A
- Explosion of the battery									N/A
- Emission of flame or expulsion of molten metal									N/A
- Electric strength tests of equipment after completion of tests									N/A
supplementary information:									

4.5	TABLE: Thermal requirements						Pass
	Supply voltage (V)	15VDC Charge Mode	15VDC Charge Mode	-	-	--	—
	Ambient Tmin (°C)	See Below	Shifted to 40 degree C	-	-	--	—
	Ambient Tmax (°C)	--	--	--	--	--	—
Maximum measured temperature T of part/at:		T (°C)					allowed Tmax (°C)
Enclosure near the touch point		34.6	46.6	-	-	-	70
Enclosure near the U4		45.0	57	-	-	-	70
PCB near U1		48.9	60.9	-	-	-	85
PCB near U4		46.6	58.6	-	-	-	85
PCB near L1		53.6	65.6	-	-	-	85
PCB near BU1		44.4	56.4	-	-	-	85
PCB near touch point		38.8	50.8	-	-	-	85
input connector		42.3	54.3	-	-	-	70
Internal wire		33.3	45.3	-	-	-	60
Ambient		28.0	40	-	-	-	--
Duration		1.9h	--	-	-	-	--
temperature T of winding:		t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	allowed T _{max} (°C)
insulation class							
--		--	--	--	--	--	--

IEC 60950-1:2005			
Clause	Requirement + Test	Result - Remark	Verdict

supplementary information:

--The temperatures were measured under worst case normal mode defined in 1.2.2.1 and as described in subclause 1.6.2 and at voltages as described in sub-clause 1.4.5.

--Maximum normal load 5Vdc, 800mAx3.

--The maximum ambient temperature specified as 40 degree C. The maximum allowed temperature is calculated as follows:

--Tmax of Enclosure inside, material requirement, =70 degree C;

--Tmax of PWB, material requirement, =85 degree C;

-- Internal wire, material requirement, =60 degree C.

4.5.5	TABLE: Ball pressure test of thermoplastic parts			N/A
	allowed allowed impression diameter (mm)			—
part		test temperature (°C)	impression diameter (mm)	
supplementary information:				

4.7	TABLE: resistance to fire				Pass
part	manufacturer of material	type of material	thickness (mm)	flammability class	Evidence
Enclosure	Various	Various	Minimum 1.6 mm	Minimum HB	--
supplementary information:					
See appended talbl1 .15.1 for details material information.					

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:				

5.3	TABLE: fault condition tests						N/A
	ambient temperature (°C)						—
	Power source for EUT: Manufacturer, model/type, output rating						—
Component No.	Fault	Supply voltage (V)	Test time	Fuse #	Fuse current (A)	Observation	
supplementary information:							
<p>Results Key: IP = Internal protection operated (component indicated) CT = Constant temperatures were obtained TW = Transformer winding opened CD = Components damaged (damaged components indicated) NB = No indication of dielectric breakdown YB = Dielectric breakdown (time and location indicated) NC = Cheesecloth remained intact YC = Cheesecloth charred or flamed NT = Tissue paper remained intact YT = Tissue paper charred or flamed</p>							



NOTICE OF AUTHORIZATION TO APPLY THE UL MARK

2010/07/30

Wanlida Group Co Ltd
Mr. Eason Lin
618 Jiahe Rd
Xiamen Fujian 361006, Cn

Our Reference: File E313912, Vol. X1 Project Number 10CA36049
Your Reference: P100705-09
Project Scope: UL/CUL:GAME PAD, MODEL G-R0001 (Report Reference No: E313912-A35-UL)

Dear Mr. Eason Lin:

UL's investigation of your product(s) has been completed under the above Reference Number and the product was determined to comply with the applicable requirements.

This letter temporarily supplements the UL Follow-Up Services Procedure and serves as authorization to apply the UL Mark only at authorized factories under UL's Follow-Up Service Program.

To provide the manufacturer with the intended authorization to use the UL Mark, the addressee must send a copy of this notice to each manufacturing location currently authorized in File E313912, Vol. X1.

This authorization is effective from the date of this Notice and only for products at the indicated manufacturing locations. Records in the Follow-Up Services Procedure covering the product are now being prepared and will be sent in the near future. Until then, this letter authorizes application of the UL Mark for 90 days from the date of this letter.

Products that bear the UL Mark shall be identical to those that were evaluated by UL and found to comply with UL's requirements. If changes in construction are discovered, appropriate action will be taken for products not in conformance with UL's requirements and continued use of the UL Mark may be withdrawn. UL may elect to withdraw use of the UL Mark if the Applicant or Manufacturer fails to comply with UL's requirements including ongoing compliance of the product, under UL's Follow-Up Service.

Any information and documentation provided to you involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

The contents of this Letter are intended solely for the use of UL and the Applicant. The opinions and findings of UL represent its judgment given with due consideration to the necessary limitations of practical operation in accordance with UL's objectives and purposes. UL shall not otherwise be responsible for the use of or reliance upon the contents of this letter by anyone. UL shall not incur any obligation or liability for any loss, expense or damages, including incidental, consequential or punitive damages, arising out of or in connection with the use or reliance upon the contents of this letter to anyone other than the Applicant as provided in the agreement between UL and Applicant. Any use or reference to UL's name or certification mark(s) by anyone other than the Applicant in accordance with the agreement is prohibited without the express written approval of UL.

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