### **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:	Listing			
CCN:	QQGQ, QQGQ7 (Power Supplies for Information Technology Equipment Including Electrical Business Equipment)			
Product:	Direct Plug-in Switch-mode Power Supply			
Model:	GT-41060 (- or CC) WWVV-X.X Family			
	where: 41060: Series Code (- or CC): "-" = Constant Voltage Model, CC = Constant Current Model WW: Rated Wattage VV: Rated Voltage X.X-Denotes Voltage Differentiator Subtract X.X from rated voltage			
Rating:	Input: 100-240 VAC, 0.6 A, 50-60 Hz			
	Output: 3-30 V (0.1 V increments), 0.833-3.0 A, 25 W			
	Alternate Rating: For Model GT-41060-2512: output 12Vdc/0.4A at Tma=70 Deg. C.			
	For Model GT-41060-1505: output 5Vdc/0.5A at Tma=70 Deg. C.			
Applicant Name and Address:	GLOBTEK INC 186 VETERANS DR NORTHVALE NJ 07647 UNITED STATES			

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.

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Jasper Wu Prepared by: Underwriters Laboratories Inc.

Jenly Ge Reviewed by: Underwriters Laboratories Inc.

Jasper Wu Jerry ae

#### 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**

The products covered by this report are direct plug-in switch-mode power supplies, intended to provide power to Information Technology Equipment.

#### Model Differences

Differences within the Series is limited to minor component changes to determine specific output voltage and current parameters.

#### **Technical Considerations**

- Equipment mobility : direct plug-in
- Connection to the mains : pluggable A
- Operating condition : continuous
- Access location : operator accessible
- Over voltage category (OVC) : OVC II
- Mains supply tolerance (%) or absolute mains supply values : +10%, -10%
- Tested for IT power systems : No
- IT testing, phase-phase voltage (V) : N/A
- Class of equipment : Class II (double insulated)
- Considered current rating (A) : 20

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- Pollution degree (PD) : PD 2
- IP protection class : IP X0
- Altitude of operation (m) : 0-2000
- Altitude of test laboratory (m) : 0-2000
- Mass of equipment (kg) : 0.5 lbs
- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: 40 Deg. C ., Alternate for Model GT-41060-2512 with output 12Vdc/0.4A: 70 Deg. C., Alternate for Model GT-41060-1505 with output 5Vdc/0.5A: 70 Deg. C.
- The means of connection to the mains supply is: Pluggable A
- The product is intended for use on the following power systems: TN
- The equipment disconnect device is considered to be: The physical removal of the unit from the outlet.
- The class of laser product is: Specific data sheets for LED indicators that are class I and operate at wavelength in the 400-710 nm range.
- The product was investigated to the following additional standards: The blade configuration had been evaluated and found compliant with Standard for Wiring Devices-Dimensional Specifications, ANSI/NEMA WD 6.
- The following circuit locations (with circuit/schematic designation) were investigated as a limited power source (LPS): The models which output is from 9V to 30V.
- The following are available from the Applicant upon request: Installation (Safety) Instructions / Manual

#### Additional Information

A Manufacturer's Letter of Assurance is not required since there are no special warnings or cautions on the unit or it's label.

This product family contains only visible indicator LEDs operating within the range of 400-700 nm wavelength. Therefore, no IEC 60825-1 evaluation was deemed necessary. Additional testing and evaluation may be required at a the discretion of the auditing NCB.

Units under test are direct plug-in wide range AC / DC power supplies with exchangeable plugs (EN, UK, US,

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& Australia) and polarized output plug.

No EMC evaluation was conducted for the product. Additional EMC testing and evaluation may be required when submitting this CB Report to a National Certification Body (NCB) to obtain a national mark.

Markings and instructions			
Clause Title	Marking or Instruction Details		
Power rating - Ratings	Ratings (voltage, frequency/dc, current)		
Power rating - Company identification	Listee's or Recognized company's name, Trade Name, Trademark or File Number		
Power rating - Model	Model Number		
Power rating - Class II symbol	Symbol for Class II construction (60417-2-IEC-5172)		
Fuses - Rating	Rated current and voltage and type located on or adjacent to fuse or fuseholder.		
Special Instructions to Inspect the transformer(s When the tests are cond	UL Representative s) listed in table "Electric Strength Test Special Constructions" per AA1.1- (C): ucted at other location, inspect test record and specification sheet provided by the		

When the tests are conducted at other location, inspect test record and specification sheet provided by the component manufacturer. Verify the specification sheet indicates 100% routine test specified in the table be conducted at the component manufacturer.

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Production-	Line Testing Req	uirements			
Electric Stre	ngth Test Specia	I Constructions	- Refer to Generic Inspe	ection Instruction	ns, Part AC for
further infor	mation.				
		Removable		V	Test Time,
Model	Component	Parts	Test probe location	rms V do	s s
All model	Transformer T1	-	Primary to Secondary	300 4242	2 1
				0	
Earthing Co	ntinuity Test Exe	mptions - This t	est is not required for th	e following mod	els:
GT-41060-25	5XX Series				
Electric Stre	ength Test Exemp	otions - This test	t is not required for the f	ollowing models	<u>;;</u>
-					
Electric Stre	nath Test Comp	onent Exemptio	ns - The following solid-	state componen	ts mav
disconnecte	d from the remai	nder of the circu	uitry during the performa	ance of this test:	
N/A					
Sample and Test Specifics for Follow-Up Tests at UL					
					Test
Model	Component	Material	Test	Sample(s)	Specifics
N/A	N/A	N/A	N/A	N/A	N/A

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### **TABLE: List of Critical Components**

Object/part or Description	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
Printed Wiring Board	Various	Various	105 deg C min., V-0, See Supp. 5-02 for Dimension.	ZPMV2	UL
Input Terminal Block	Various	Various	250V, 5A, V-2 min.	XCFR2	UL
Fuses F1 & F2	Wickermann-Werke GMBH or Littelfuse	TE5 Series, 392	1.0A, 250V	JDYX2	UL
Alternate Fuses F1 & F2	CONQUER ELECTRONICS CO LTD	MST	1.0A, 250V	JDYX2	UL
Alternate Fuses F1 & F2	EVER ISLAND ELECTRIC CO LTD & WALTER ELECTRIC	2010	1.0A, 250V	JDYX2	UL
Alternate Fuses F1 & F2	Various	Various	1.0A, 250V	JDYX	UL
MOV1	Various	Various	300V min., 800V Suppressed Voltage	VZCA2	UL, CUL
Bulk Cap C1	Various	Various	400V, 47ufds MAX, 105 deg C	-	-
Common Mode Choke	Various	NF00009B	See Supp. 7-01 for construction and rating details. Minimum Class A Insulation System Required.	-	-
Bridge Rectifier	Various	Various	400V, 1A, V-0	QQIJ2	UL
Opto-Coupler PC1	Lite-On Technology Corp	LTV-817	5000VAC Isolation	FPUQ2	UL
Alternate Opto-Coupler PC1	Cosmos Electronics Corp.	817X	5000VAC Isolation	FPUQ2	UL
Alternate Opto-Coupler PC1	Everlight Electronics Co., Ltd.	EL817C	5000VAC Isolation	FPUQ2	UL
Capacitor CY1	Murata MFG Co., Ltd.	КХ	250VAC, 3.3nf MAX, Y1, min 85 deg. C	FOWX2	UL
Alternate Capacitor CY1	TDK Corp.	CD	250VAC, 3.3nf MAX, Y1, min 85 deg. C	FOWX2	UL
Alternate Capacitor CY1	Welson Industrial Co., Ltd.	WD	250VAC, 3.3nf MAX, Y1, min 85 deg. C	FOWX2	UL
Alternate Capacitor CY1	JYA-NAY Co., Ltd.	JN	250VAC, 3.3nf MAX, Y1, min 85 deg. C	FOWX2	UL
Alternate Capacitor CY1 (for model GT-41060-	Walsin Technology Corp.	AH	250VAC, 3.3nf MAX, Y1, Min 125 deg. C	FOWX2	UL

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Object/part or Description	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
2512 and GT-41060- 1505 for Tma=70 deg. C)					
Alternate Capacitor CY1 (for model GT-41060- 2512 and GT-41060- 1505 for Tma=70 deg. C)	JYA-NAY CO LTD	JN	250VAC, 3.3nf MAX, Y1, Min 125 deg. C	FOWX2	UL
Alternate Capacitor CY1 (for model GT-41060- 2512 and GT-41060- 1505 for Tma=70 deg. C)	MURATA MFG CO LTD	кх	250VAC, 3.3nf MAX, Y1, Min 125 deg. C	FOWX2	UL
Alternate Capacitor CY1 (for model GT-41060- 2512 and GT-41060- 1505 for Tma=70 deg. C)	TDK-EPC CORP	CD	250VAC, 3.3nf MAX, Y1, Min 125 deg. C	FOWX2	UL
Alternate Capacitor CY1 (for model GT-41060- 2512 and GT-41060- 1505 for Tma=70 deg. C)	SUCCESS ELECTRONICS CO LTD	SB SE	250VAC, 3.3nf MAX, Y1, Min 125 deg. C	FOWX2	UL
Alternate Capacitor CY1 (for model GT-41060- 2512 and GT-41060- 1505 for Tma=70 deg. C)	WELSON INDUSTRIAL CO LTD	WD	250VAC, 3.3nf MAX, Y1, Min 125 deg. C	FOWX2	UL
Transformer T1	Young-Shang Electronic Co., Ltd. or Equivalent	XF00290=3.3V- 5V, XF00290A=6A, XF00328=7V-9V, XF00291=12V-	See Supp. 7-02 for construction and rating details. Class B Insulation System Required. Tested in Power Supply.	-	-

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Object/part or Description	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
		15V, XF00318=18V, XF00295=20V, XF00230=24V, XF00292=30V			
Class B Insulation System	Globtek	GTX-1	Class B(130 Deg. C)	OBJY2	UL
Alternate Class B Insulation System	Young-Shang Electronic Plant	YSE 0510 or YSE0522	Class B(130 Deg. C)	OBJY2	UL
Alternate Class B Insulation System	Херех	XPB-5	Class B(130 Deg. C)	OBJY2	UL
Alternate Class B Insulation System	Yao Sheng Electronic Co., Ltd.	YST-JC1, M7A90, M7AGHB, M7ADEW, DASH 2B-5A	Class B(130 Deg. C)	OBJY2	UL
Alternate Class B Insulation System	Guang Xie	SBI4.2	Class B(130 Deg. C)	OBJY2	UL
Alternate Class B Insulation System	SHAN DONG BOAM ELECTRIC CO LTD	BOAM-001	Class B(130 Deg. C)	OBJY2	UL
Capacitor CX1	Ultra Tech Xiphi Enterprise Co., Ltd.	HQX	0.47uf MAX, 250V, X2, min 85 deg. C	FOWX2	UL
Alternate Capacitor CX1	Cheng Tung	CTX	0.47uf MAX, 250V, X2, min 85 deg. C	FOWX2	UL
Alternate Capacitor CX1	Pilkor	PCX	0.47uf MAX, 250V, X2, min 85 deg. C	FOWX2	UL, CUL
Alternate Capacitor CX1	Panasonic	ECQUL	0.47uf MAX, 250V, X2, min 85 deg. C	FOWX2	UL, CUL
Alternate Capacitor CX1	Phillips	PCX2335	0.47uf MAX, 250V, X2, min 85 deg. C	FOWX2	UL
Alternate Capacitor CX1	Rifa	PHE	0.47uf MAX, 250V, X2, min 85 deg. C	FOWX2	UL, CUL
Alternate Capacitor CX1	Okaya	LE	0.47uf MAX, 250V, X2, min 85 deg. C	FOWX2	UL, CUL
Alternate Capacitor CX1	BC Components	MKP	0.47uf MAX, 250V, X2, min deg. C	FOWX2	UL, CUL
Alternate Capacitor CX1 (for model GT-41060- 2512 and GT-41060- 1505 for Tma=70 deg. C.)	Okaya Electric Industries Co., Ltd.	RE	0.47uf MAX, 250V MIN, X2, Min 100 deg. C	FOWX2	UL

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Object/part or Description	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
Alternate Capacitor CX1 (for model GT-41060- 2512 and GT-41060- 1505 for Tma=70 deg. C.)	Shunde Da Hua Electric Co., Ltd.	HD+	0.47uf MAX, 250V MIN, X2, Min 105 deg. C	FOWX2	UL
Alternate Capacitor CX1 (for model GT-41060- 2512 and GT-41060- 1505 for Tma=70 deg. C.)	CHENG TUNG INDUSTRIAL CO LTD	СТХ	0.47uf MAX, 250V MIN, X2, Min 100 deg. C	FOWX2	UL
Alternate Capacitor CX1 (for model GT-41060- 2512 and GT-41060- 1505 for Tma=70 deg. C.)	ULTRA TECH XIPHI ENTERPRISE CO LTD	HQX	0.47uf MAX, 250V MIN, X2, Min 100 deg. C	FOWX2	UL
Alternate Capacitor CX1 (for model GT-41060- 2512 and GT-41060- 1505 for Tma=70 deg. C.)	TENTA ELECTRIC INDUSTRIAL CO LTD	MEX	0.47uf MAX, 250V MIN, X2, Min 100 deg. C	FOWX2	UL
Alternate Capacitor CX1 (for model GT-41060- 2512 and GT-41060- 1505 for Tma=70 deg. C.)	DAIN ELECTRONICS CO LTD	MPX, NPX	0.47uf MAX, 250V MIN, X2, Min 110 deg. C	FOWX2	UL
Alternate Capacitor CX1 (for model GT-41060- 2512 and GT-41060- 1505 for Tma=70 deg. C.)	SHENZHEN JINGHAO CAPACITOR CO LTD	CBB62B	0.47uf MAX, 250V MIN, X2, Min 100 deg. C	FOWX2	UL
Alternate Capacitor CX1 (for model GT-41060- 2512 and GT-41060-	WELSON INDUSTRIAL CO LTD	WD	0.47uf MAX, 250V MIN, X2, Min 125 deg. C	FOWX2	UL

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Object/part or Description	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
1505 for Tma=70 deg. C.)					
Alternate Capacitor CX1 (for model GT-41060- 2512 and GT-41060- 1505 for Tma=70 deg. C.)	MURATA MFG CO LTD	КН	0.47uf MAX, 250V MIN, X2, Min 125 deg. C	FOWX2	UL
Alternate Capacitor CX1 (for model GT-41060- 2512 and GT-41060- 1505 for Tma=70 deg. C.)	WALSIN TECHNOLOGY CORP	AC	0.47uf MAX, 250V MIN, X2, Min 125 deg. C	FOWX2	UL
Alternate Capacitor CX1 (for model GT-41060- 2512 and GT-41060- 1505 for Tma=70 deg. C.)	SHANTOU HIGH- NEW TECHNOLOGY*DEV ELOPMNT ZONE SONGTIAN ENTERPRISE CO LTD	MPX	0.47uf MAX, 250V MIN, X2, Min 110 deg. C	FOWX2	UL
Q1	Fairchild or Various	FQPF8N60C or Various	600V, 3 A min	-	-
Bleeder Resisters, RA & RB	Various	Various	Each; 200V, max.604Kohms, 1/4W	-	-
Thermoplastic Enclosure (for models under Tma=55 Deg. C only)	GE Plastics BV	C2950	V-0, 75 Degree C. designated Cycoloy, see supp 4- 01 for overall dimensions.	QMFZ2	UL
Secondary Cord	Various	Various	2 conductor, 18 AWG MIN. Stranded Wire, 80 deg C min	AVLV2, ZJCZ2	UL
Indicator LED, secondary	Liteon or Equivalent	LTL-16KGE or Equivalent	575 nm, wavelength, within visible light range only.	-	Tested in Power Supply.
Alternate Thermoplastic Enclosure	SABIC INNOVATIVE PLASTICS B V	SE1	V-1, 105 Degree C. HWI=1, designated Noryl, minimum 2.40mm thickness, see supp 4-01 for	QMFZ2	UL

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Object/part or Description	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
			overall dimensions.		

## **Enclosures**

Type	Supplement Id	Description
Photographs	3-01	Overall Top View
Photographs	3-02	Overall Bottom View
Photographs	3-03	Overall Side View
Photographs	3-04	Inner Top Overview
Photographs	3-05	PWB Trace Layout Overview
Photographs	3-06	Interchangeable Input Blades
Diagrams	4-01	Enclosure & Interchangeable Blade Dimensions
Diagrams	4-02	Strain Relief Bushing
Schematics + PWB	5-01	Electrical Schematic
Schematics + PWB	5-02	PWB Component & Trace Layout
Manuals		
Miscellaneous	7-01	Common Mode Choke Specs
Miscellaneous	7-02	5V Transformer Specs
Miscellaneous	7-03	30V Transformer Specs
Miscellaneous	7-04	LED Spec Sheets
Miscellaneous	7-05	VDE of CX1
Miscellaneous	7-06	VDE of CX1-2
Miscellaneous	7-07	VDE of CY1
Miscellaneous	7-08	Heating Test Curve
Miscellaneous	7-09	Additional Table

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

1	GENERAL			
1.5	Components		Pass	
1.5.1	General		Pass	
	Comply with IEC 60950-1 or relevant component standard	(see appended table 1.5.1)	Pass	
1.5.2	Evaluation and testing of components		Pass	
1.5.3	Thermal controls		N/A	
1.5.4	Transformers		Pass	
1.5.5	Interconnecting cables		N/A	
1.5.6	Capacitors bridging insulation	Line-to-line capacitors are subclass X1 or X2. Primary- to-earth capacitors are subclass Y1 or Y2.	Pass	
1.5.7	Resistors bridging insulation		Pass	
1.5.7.1	Resistors bridging functional, basic or supplementary insulation		Pass	
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits		N/A	
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable		N/A	
1.5.8	Components in equipment for IT power systems		N/A	
1.5.9	Surge suppressors		Pass	
1.5.9.1	General		Pass	
1.5.9.2	Protection of VDRs	Protected by fuse F1 and employed the enclosure whose HWI=1.	Pass	
1.5.9.3	Bridging of functional insulation by a VDR		Pass	
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	Unit investigated for use on TN(-S) system.	Pass	
1.6.2	Input current	(See appended table 1.6.2.)	Pass	
1.6.3	Voltage limit of hand-held equipment		N/A	
1.6.4	Neutral conductor		Pass	
1.7	Marking and instructions		Pass	
1.7.1	Power rating		Pass	

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

	Rated voltage(s) or voltage range(s) (V):	See models and ratings page.	Pass
	Symbol for nature of supply, for d.c. only		N/A
	Rated frequency or rated frequency range (Hz):	See models and ratings page.	Pass
	Rated current (mA or A):	See models and ratings page.	Pass
	Manufacturer's name or trademark or identification mark	See models and ratings page.	Pass
	Model identification or type reference:	See models and ratings page.	Pass
	Symbol for Class II equipment only:	Double Isolation Mark provided.	Pass
	Other markings and symbols:		N/A
1.7.2	Safety instructions and marking		Pass
1.7.2.1	General		Pass
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):	Fuse(s) are not accessible & are not intended to be replaced.	N/A
1.7.7	Wiring terminals		N/A
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

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

1.7.11	Durability	Pass
1.7.12	Removable parts	N/A
1.7.13	Replaceable batteries:	N/A
	Language(s)	-
1.7.14	Equipment for restricted access locations:	N/A

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

2	PROTECTION FROM HAZARDS		
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	Operator only has access to SELV circuits only.	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 (Vpeak or Vrms); 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
2.1.1.6	Manual controls		N/A
2.1.1.7	Discharge of capacitors in equipment		Pass
	Measured voltage (V); time-constant (s):	See data sheets for details.	-
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
2.2	SELV circuits		Pass
2.2.1	General requirements		Pass
2.2.2	Voltages under normal conditions (V):	31.2	Pass
2.2.3	Voltages under fault conditions (V):	36.0	Pass
2.2.4	Connection of SELV circuits to other circuits :	SELV circuits are only connected to other secondary circuits. SELV circuit and all interconnected circuits separated from primary by D/R insulation. The SELV circuit does not exceed the SELV limits under normal and fault conditions.	Pass

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

2.3	TNV circuits		N/A
2.3.1	Limits		N/A
	Type of TNV circuits:		-
2.3.2	Separation from other circuits and from accessible parts		N/A
2.3.2.1	General requirements		N/A
2.3.2.2	Protection by basic insulation		N/A
2.3.2.3	Protection by earthing		N/A
2.3.2.4	Protection by other constructions:		N/A
2.3.3	Separation from hazardous voltages		N/A
	Insulation employed:		-
2.3.4	Connection of TNV circuits to other circuits		N/A
	Insulation employed:		-
2.3.5	Test for operating voltages generated externally		N/A
2.4	Limited current circuits		N/A
2.4.1	General requirements		N/A
2.4.2	Limit values		N/A
	Frequency (Hz)		-
	Measured current (mA):		-
	Measured voltage (V):		-
	Measured circuit capacitance (nF or uF):		-
2.4.3	Connection of limited current circuits to other circuits		N/A
2.5	Limited power sources		Pass
	a) Inherently limited output		N/A
	b) Impedance limited output		N/A
	<ul> <li>c) Regulating network limited output under normal operating and single fault condition</li> </ul>	Test for Models GT-41060- 1509 and GT-41060-2530.	Pass
	d) Overcurrent protective device limited output		N/A
	Max. output voltage (V), max. output current (A), max. apparent power (VA):	See Miscellaneous 7-09. For models GT-41060-2530 and GT-41060-1509: Uoc= max.38.6V, I sc=max. 3.54A, VA=max.73.6VA.	-
	Current rating of overcurrent protective device (A):	-	-
2.6	Provisions for earthing and bonding	•	N/A

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2.6.2       Functional earthing       N/A         2.6.3       Protective earthing and protective bonding conductors       N/A         2.6.3.1       General       N/A         2.6.3.2       Size of protective earthing conductors       N/A         Rated current (A), cross-sectional area (mm²), AWG       -         2.6.3.3       Size of protective bonding conductors       N/A         Rated current (A), cross-sectional area (mm²), AWG       -         mm²), AWG       -         WG       -         Protective current rating (A), cross-sectional area (mm²), AWG       -         mm²), AWG       -         Query (A), duration (min).       -         2.6.3.4       Resistance of earthing conductors and their terminations; resistance (ohm), voltage drop (V), test current (A), duration (min).       N/A         2.6.4       Terminals       N/A         2.6.4.1       General       N/A         2.6.4.2       Protective earthing and bonding terminals       N/A         Rated current (A), type, nominal thread diameter (mm)       -       -         (mm)       -       -       -         2.6.5.1       Interconnection of equipment       N/A         2.6.5.2       Components in protective earthing conductors and protective bonding conductors	2.6.1	Protective earthing		N/A
2.6.3       Protective earthing and protective bonding conductors       N/A         2.6.3.1       General       N/A         2.6.3.2       Size of protective earthing conductors       N/A         Rated current (A), cross-sectional area (mm²), AWG       N/A         2.6.3.3       Size of protective bonding conductors       N/A         Rated current (A), cross-sectional area (mm²), AWG       N/A         Rated current (A), cross-sectional area (mm²), AWG       -         (mm²), AWG       -         Protective current rating (A), cross-sectional area (mm²), terminations; resistance (ohm), voltage drop (V), test current (A), duration (min).       -         2.6.3.5       Colour of insulation       N/A         2.6.4.1       General       N/A         2.6.4.2       Protective earthing and bonding terminals       N/A         2.6.4.3       Separation of the protective earthing conductors       -         2.6.4.3       Separation of the protective earthing conductors       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 equipment       N/A         2.6.5.4       Genoreal       N/A         2.6.5.5	2.6.2	Functional earthing		N/A
2.6.3.1       General       N/A         2.6.3.2       Size of protective earthing conductors       N/A         Rated current (A), cross-sectional area (mm²), AWG       -         2.6.3.3       Size of protective bonding conductors       N/A         Rated current (A), cross-sectional area (mm²), AWG       N/A         Rated current (A), cross-sectional area (mm²), AWG       -         (mm²), AWG       -         general       Rated current (A), cross-sectional area (mm²), AWG         (mm²), AWG       -         (mm²), AWG       -         (mm²), AWG       -         2.6.3.4       Resistance of earthing conductors and their terminations; resistance (ohm), voltage drop (V), test current (A), duration (min)       N/A         2.6.4.1       General       N/A         2.6.4.2       Protective earthing and bonding terminals       N/A         2.6.4.3       Separation of the protective earthing conductor from protective bonding conductors       N/A         2.6.5.1       Integrity of protective earthing conductors and protective bonding conductors       N/A         2.6.5.2       Corponents in protective earthing conductors and protective bonding conductors       N/A         2.6.5.3       Disconnection of protective earthing conductors and protective bonding conductors       N/A         2.6.5.4	2.6.3	Protective earthing and protective bonding conductors		N/A
2.6.3.2       Size of protective earthing conductors       N/A         Rated current (A), cross-sectional area (mm²), AWG       .       .         2.6.3.3       Size of protective bonding conductors       N/A         Rated current (A), cross-sectional area (mm²), AWG       .       .         Protective current rating (A), cross-sectional area (mm²), AWG       .       .         2.6.3.4       Resistance of earthing conductors and their terminations; resistance (ohm), 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       N/A         2.6.4.2       Protective earthing and bonding terminals       N/A         2.6.4.3       Separation of the protective earthing conductors       N/A         2.6.4.3       Separation of the protective earthing conductors       N/A         2.6.4.3       Integrity of protective earthing conductors       N/A         2.6.5       Integrity of protective earthing conductors       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         2.6.5.4       Parts that can be removed by an operator       N/A	2.6.3.1	General		N/A
Rated current (A), cross-sectional area (mm²), AWG·2.6.3.3Size of protective bonding conductorsN/ARated current (A), cross-sectional area (mm²), AWG·Protective current rating (A), cross-sectional area (mm²), AWG·2.6.3.4Resistance of earthing conductors and their terminations; resistance (ohm), voltage drop (V), test current (A), duration (min)N/A2.6.3.5Colour of insulationN/A2.6.4.1GeneralN/A2.6.4.2Protective earthing and bonding terminalsN/A2.6.4.3Separation of the protective earthing conductorsN/A2.6.4.3Separation of the protective earthing conductor from protective bonding conductorsN/A2.6.5.1Integrity of protective earthing conductorsN/A2.6.5.2Components in protective earthing conductorsN/A2.6.5.3Disconnection of equipmentN/A2.6.5.4Parts that can be removed by an operatorN/A2.6.5.5Parts removed during servicingN/A2.6.5.6Corrsion resistanceN/A2.6.5.7Screws for protective bondingN/A2.6.5.8Reliance on telecommunication network or cableN/A2.6.5.8Reliance on telecommunication in primary circuitsPass2.7.1Basic requirementsPass	2.6.3.2	Size of protective earthing conductors		N/A
2.6.3.3       Size of protective bonding conductors       N/A         Rated current (A), cross-sectional area (mm²), AWG       -         Protective current rating (A), cross-sectional area (mm²), AWG       -         2.6.3.4       Resistance of earthing conductors and their terminations; resistance (ohm), voltage drop (V), test current (A), duration (min)		Rated current (A), cross-sectional area (mm <sup>2</sup> ), AWG:		-
Rated current (A), cross-sectional area (mm²), AWGProtective current rating (A), cross-sectional area (mm²), AWG2.6.3.4Resistance of earthing conductors and their terminations; resistance (ohm), voltage drop (V), test current (A), duration (min)	2.6.3.3	Size of protective bonding conductors		N/A
Protective current rating (A), cross-sectional area (mm²), AWGImage: constraint of the cons		Rated current (A), cross-sectional area (mm <sup>2</sup> ), AWG		-
2.6.3.4Resistance of earthing conductors and their terminations; resistance (ohm), voltage drop (V), test current (A), duration (min)		Protective current rating (A), cross-sectional area (mm <sup>2</sup> ), AWG:		-
2.6.3.5Colour of insulationN/A2.6.4TerminalsN/A2.6.4.1GeneralN/A2.6.4.2Protective earthing and bonding terminalsN/A2.6.4.3Rated current (A), type, nominal thread diameter (mm)-2.6.4.3Separation of the protective earthing conductor from protective bonding conductorsN/A2.6.4.3Copponents in protective earthingN/A2.6.4.3Components in protective earthingN/A2.6.5.1Interconnection of equipmentN/A2.6.5.2Components in protective earthing conductorsN/A2.6.5.3Disconnection of protective earthN/A2.6.5.4Parts that can be removed by an operatorN/A2.6.5.5Parts removed during servicingN/A2.6.5.6Corrosion resistanceN/A2.6.5.7Screws for protective bondingN/A2.6.5.8Reliance on telecommunication network or cable distribution systemN/A2.7Overcurrent and earth fault protection in primary circuitsPass2.7.1Basic requirementsPass	2.6.3.4	Resistance of earthing conductors and their terminations; resistance (ohm), voltage drop (V), test current (A), duration (min):		N/A
2.6.4TerminalsN/A2.6.4.1GeneralN/A2.6.4.2Protective earthing and bonding terminalsN/ARated current (A), type, nominal thread diameter (mm)-2.6.4.3Separation of the protective earthing conductor from protective bonding conductorsN/A2.6.4.3Integrity of protective earthingN/A2.6.4.3Separation of the protective earthing conductor from protective bonding conductorsN/A2.6.5Integrity of protective earthingN/A2.6.5.1Interconnection of equipmentN/A2.6.5.2Components in protective earthing conductors and protective bonding conductorsN/A2.6.5.4Parts that can be removed by an operatorN/A2.6.5.5Parts removed during servicingN/A2.6.5.6Corrosion resistanceN/A2.6.5.7Screws for protective bondingN/A2.6.5.8Reliance on telecommunication network or cable distribution systemN/A2.7Overcurrent and earth fault protection in primary circuitsPass2.7.1Basic requirementsPass	2.6.3.5	Colour of insulation:		N/A
2.6.4.1GeneralN/A2.6.4.2Protective earthing and bonding terminalsN/ARated current (A), type, nominal thread diameter (mm)-(mm)-2.6.4.3Separation of the protective earthing conductor from protective bonding conductorsN/A2.6.4.3Integrity of protective earthingN/A2.6.4.3Components in protective earthingN/A2.6.5Integrity of protective earthing conductors and protective bonding conductorsN/A2.6.5.1Interconnection of equipmentN/A2.6.5.2Components in protective earthing conductors and protective bonding conductorsN/A2.6.5.3Disconnection of protective earthN/A2.6.5.4Parts that can be removed by an operatorN/A2.6.5.5Parts removed during servicingN/A2.6.5.7Screws for protective bondingN/A2.6.5.8Reliance on telecommunication network or cable distribution systemN/A2.7Overcurrent and earth fault protection in primary circuitsPass2.7.1Basic requirementsPass	2.6.4	Terminals		N/A
2.6.4.2Protective earthing and bonding terminalsN/ARated current (A), type, nominal thread diameter (mm)-2.6.4.3Separation of the protective earthing conductor from protective bonding conductorsN/A2.6.5Integrity of protective earthingN/A2.6.5.1Interconnection of equipmentN/A2.6.5.2Components in protective earthing conductorsN/A2.6.5.3Disconnection of protective earthN/A2.6.5.4Parts that can be removed by an operatorN/A2.6.5.5Parts removed during servicingN/A2.6.5.7Screws for protective bondingN/A2.6.5.8Reliance on telecommunication network or cable distribution systemN/A2.7Overcurrent and earth fault protection in primary circuitsPass2.7.1Basic requirementsPass	2.6.4.1	General		N/A
Rated current (A), type, nominal thread diameter (mm)-2.6.4.3Separation of the protective earthing conductor from protective bonding conductorsN/A2.6.5Integrity of protective earthingN/A2.6.5.1Interconnection of equipmentN/A2.6.5.2Components in protective earthing conductors and protective bonding conductorsN/A2.6.5.3Disconnection of protective earthN/A2.6.5.4Parts that can be removed by an operatorN/A2.6.5.5Parts removed during servicingN/A2.6.5.6Corrosion resistanceN/A2.6.5.7Screws for protective bondingN/A2.6.5.8Reliance on telecommunication network or cable distribution systemN/A2.7Overcurrent and earth fault protection in primary circuitsPass2.7.1Basic requirementsPass	2.6.4.2	Protective earthing and bonding terminals		N/A
2.6.4.3Separation of the protective earthing conductor from protective bonding conductorsN/A2.6.5Integrity of protective earthingN/A2.6.5.1Interconnection of equipmentN/A2.6.5.2Components in protective earthing conductors and protective bonding conductorsN/A2.6.5.3Disconnection of protective earthN/A2.6.5.4Parts that can be removed by an operatorN/A2.6.5.5Parts removed during servicingN/A2.6.5.6Corrosion resistanceN/A2.6.5.7Screws for protective bondingN/A2.6.5.8Reliance on telecommunication network or cable distribution systemN/A2.7Overcurrent and earth fault protection in primary circuitsPass2.7.1Basic requirementsPass		Rated current (A), type, nominal thread diameter (mm):		-
2.6.5Integrity of protective earthingN/A2.6.5.1Interconnection of equipmentN/A2.6.5.2Components in protective earthing conductors and protective bonding conductorsN/A2.6.5.3Disconnection of protective earthN/A2.6.5.4Parts that can be removed by an operatorN/A2.6.5.5Parts removed during servicingN/A2.6.5.6Corrosion resistanceN/A2.6.5.7Screws for protective bondingN/A2.6.5.8Reliance on telecommunication network or cable distribution systemN/A2.7Overcurrent and earth fault protection in primary circuitsPass2.7.1Basic requirementsPass	2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors		N/A
2.6.5.1Interconnection of equipmentN/A2.6.5.2Components in protective earthing conductors and protective bonding conductorsN/A2.6.5.3Disconnection of protective earthN/A2.6.5.4Parts that can be removed by an operatorN/A2.6.5.5Parts removed during servicingN/A2.6.5.6Corrosion resistanceN/A2.6.5.7Screws for protective bondingN/A2.6.5.8Reliance on telecommunication network or cable distribution systemN/A2.7Overcurrent and earth fault protection in primary circuitsPass2.7.1Basic requirementsPass	2.6.5	Integrity of protective earthing		N/A
2.6.5.2Components in protective earthing conductors and protective bonding conductorsN/A2.6.5.3Disconnection of protective earthN/A2.6.5.4Parts that can be removed by an operatorN/A2.6.5.5Parts removed during servicingN/A2.6.5.6Corrosion resistanceN/A2.6.5.7Screws for protective bondingN/A2.6.5.8Reliance on telecommunication network or cable distribution systemN/A2.7Overcurrent and earth fault protection in primary circuitsPass2.7.1Basic requirementsPass	2.6.5.1	Interconnection of equipment		N/A
2.6.5.3Disconnection of protective earthN/A2.6.5.4Parts that can be removed by an operatorN/A2.6.5.5Parts removed during servicingN/A2.6.5.6Corrosion resistanceN/A2.6.5.7Screws for protective bondingN/A2.6.5.8Reliance on telecommunication network or cable distribution systemN/A2.7Overcurrent and earth fault protection in primary circuitsPass2.7.1Basic requirementsPass	2.6.5.2	Components in protective earthing conductors and protective bonding conductors		N/A
2.6.5.4Parts that can be removed by an operatorN/A2.6.5.5Parts removed during servicingN/A2.6.5.6Corrosion resistanceN/A2.6.5.7Screws for protective bondingN/A2.6.5.8Reliance on telecommunication network or cable distribution systemN/A2.7Overcurrent and earth fault protection in primary circuitsPass2.7.1Basic requirementsPass	2.6.5.3	Disconnection of protective earth		N/A
2.6.5.5Parts removed during servicingN/A2.6.5.6Corrosion resistanceN/A2.6.5.7Screws for protective bondingN/A2.6.5.8Reliance on telecommunication network or cable distribution systemN/A2.7Overcurrent and earth fault protection in primary circuitsPass2.7.1Basic requirementsPass	2.6.5.4	Parts that can be removed by an operator		N/A
2.6.5.6Corrosion resistanceN/A2.6.5.7Screws for protective bondingN/A2.6.5.8Reliance on telecommunication network or cable distribution systemN/A2.7Overcurrent and earth fault protection in primary circuitsPass2.7.1Basic requirementsPass	2.6.5.5	Parts removed during servicing		N/A
2.6.5.7Screws for protective bondingN/A2.6.5.8Reliance on telecommunication network or cable distribution systemN/A2.7Overcurrent and earth fault protection in primary circuitsPass2.7.1Basic requirementsPass	2.6.5.6	Corrosion resistance		N/A
2.6.5.8Reliance on telecommunication network or cable distribution systemN/A2.7Overcurrent and earth fault protection in primary circuitsPass2.7.1Basic requirementsPass	2.6.5.7	Screws for protective bonding		N/A
2.7Overcurrent and earth fault protection in primary circuitsPass2.7.1Basic requirementsPass	2.6.5.8	Reliance on telecommunication network or cable distribution system		N/A
2.7.1 Basic requirements Pass	2.7	Overcurrent and earth fault protection in primary cir	cuits	Pass
	2.7.1	Basic requirements		Pass

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	Instructions when protection relies on building installation	Provided as part of the equipment.	N/A
2.7.2	Faults not covered in 5.3.7		Pass
2.7.3	Short-circuit backup protection	Fuses are appropriately rated for the application.	Pass
2.7.4	Number and location of protective devices:	One protective device in each phase conductor.	Pass
2.7.5	Protection by several devices		Pass
2.7.6	Warning to service personnel	Not accessible to operator.	N/A
2.8	Safety interlocks		N/A
2.8.1	General principles		N/A
2.8.2	Protection requirements		N/A
2.8.3	Inadvertent reactivation		N/A
2.8.4	Fail-safe operation		N/A
2.8.5	Moving parts		N/A
2.8.6	Overriding		N/A
2.8.7	Switches and relays		N/A
2.8.7.1	Contact gaps (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
2.9	Electrical insulation	·	Pass
2.9.1	Properties of insulating materials		Pass
2.9.2	Humidity conditioning		Pass
	Relative humidity (%), temperature (°C):	96 for original test, 93 for models GT-41060-1505 and GT-41060-2512 under Tma=70 Deg. C	-
2.9.3	Grade of insulation	Class B (130 deg C)	Pass
2.9.4	Separation from hazardous voltages		Pass
	Method(s) used:	Method b.	-
2.10	Clearances, creepage distances and distances thro	ugh insulation	Pass
2.10.1	General		Pass
2.10.1.1	Frequency:	0-30Khz	Pass
2.10.1.2	Pollution degrees:	2	Pass

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2.10.1.3	Reduced values for functional insulation		Pass	
2.10.1.4	Intervening unconnected conductive parts		Pass	
2.10.1.5	Insulation with varying dimensions			
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		Pass	
2.10.2.1	General		Pass	
2.10.2.2	RMS working voltage		Pass	
2.10.2.3	Peak working voltage		Pass	
2.10.3	Clearances		Pass	
2.10.3.1	General		Pass	
2.10.3.2	Mains transient voltages		Pass	
	a) AC mains supply:	2500Vpk	Pass	
	b) Earthed d.c. mains supplies		N/A	
	c) Unearthed d.c. mains supplies		N/A	
	d) Battery operation:		N/A	
2.10.3.3	Clearances in primary circuits		Pass	
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:	2500Vpk	Pass	
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		Pass	
2.10.4.1	General		Pass	
2.10.4.2	Material group and comparative tracking index		Pass	
	CTI tests:	Worst case; CTI = 100	-	
2.10.4.3	Minimum creepage distances		Pass	
2.10.5	Solid insulation		Pass	
2.10.5.1	General		Pass	
-				

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2.10.5.2	Distances through insulation		Pass	
2.10.5.3	Insulating compound as solid insulation		N/A	
2.10.5.4	Semiconductor devices			
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		Pass	
	Number of layers (pcs):	Min. 2 layers.	-	
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	
	b) Basic, supplementary, reinforced insulation:		N/A	
	c) Compliance with Annex U:		N/A	
	Two wires in contact inside wound component; angle between 45° and 90°		N/A	
2.10.5.13	Wire with solvent-based enamel in wound components		N/A	
	Electric strength test		-	
	Routine test		N/A	
2.10.5.14	Additional insulation in wound components		N/A	
	Working voltage:		N/A	
	- Basic insulation not under stress		N/A	
	- Supplementary, reinforced insulation:		N/A	
2.10.6	Construction of printed boards		Pass	
2.10.6.1	Uncoated printed boards		Pass	
2.10.6.2	Coated printed boards		N/A	
2.10.6.3	Insulation between conductors on the same inner surface of a printed board		N/A	
2.10.6.4	Insulation between conductors on different layers of a printed board		N/A	
	Distance through insulation		N/A	
•	-	•	•	

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	Number of insulation layers (pcs):	N/A
2.10.7	Component external terminations	N/A
2.10.8	Tests on coated printed boards and coated components	N/A
2.10.8.1	Sample preparation and preliminary inspection	N/A
2.10.8.2	Thermal conditioning	N/A
2.10.8.3	Electric strength test	N/A
2.10.8.4	Abrasion resistance test	N/A
2.10.9	Thermal cycling	N/A
2.10.10	Test for Pollution Degree 1 environment and insulating compound	N/A
2.10.11	Tests for semiconductor devices and cemented joints	N/A
2.10.12	Enclosed and sealed parts	N/A

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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		Pass
3.1.3	Securing of internal wiring		Pass
3.1.4	Insulation of conductors		Pass
3.1.5	Beads and ceramic insulators		N/A
3.1.6	Screws for electrical contact pressure		N/A
3.1.7	Insulating materials in electrical connections		N/A
3.1.8	Self-tapping and spaced thread screws		N/A
3.1.9	Termination of conductors		N/A
	10 N pull test		N/A
3.1.10	Sleeving on wiring		Pass
3.2	Connection to mains supply		Pass
3.2.1	Means of connection	Direct Plug-In Power Supply	Pass
3.2.1.1	Connection to an a.c. mains supply		Pass
3.2.1.2	Connection to a d.c. mains supply		N/A
3.2.2	Multiple supply connections		N/A
3.2.3	Permanently connected equipment		N/A
	Number of conductors, diameter of cable and conduits (mm):		-
3.2.4	Appliance inlets		N/A
3.2.5	Power supply cords		N/A
3.2.5.1	AC power supply cords		N/A
	Туре		-
	Rated current (A), cross-sectional area (mm <sup>2</sup> ), AWG		-
3.2.5.2	DC power supply cords		N/A
3.2.6	Cord anchorages and strain relief		Pass
	Mass of equipment (kg), pull (N)	0.2 kg, 30 N	-
	Longitudinal displacement (mm):	0	-
3.2.7	Protection against mechanical damage		N/A
3.2.8	Cord guards		N/A
	Diameter of minor dimension D (mm); test mass (g)		-

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	Radius of curvature of cord (mm):		-
3.2.9	Supply wiring space		N/A
3.3	Wiring terminals for connection of external conducto	ors	N/A
3.3.1	Wiring terminals		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 and nominal thread diameter (mm):		-
3.3.6	Wiring terminals design		N/A
3.3.7	Grouping of wiring terminals		N/A
3.3.8	Stranded wire		N/A
3.4	Disconnection from the mains supply		Pass
3.4.1	General requirement		Pass
3.4.2	Disconnect devices	Physical removal of unit from outlet.	Pass
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		Pass
3.4.10	Interconnected equipment		N/A
3.4.11	Multiple power sources		N/A
3.5	Interconnection of equipment		N/A
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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4	PHYSICAL REQUIREMENTS		Pass
4.1	Stability		N/A
	Angle of 10°		N/A
	Test force (N):		N/A
4.2	Mechanical strength	·	Pass
4.2.1	General		Pass
4.2.2	Steady force test, 10 N		N/A
4.2.3	Steady force test, 30 N		N/A
4.2.4	Steady force test, 250 N		Pass
4.2.5	Impact test		N/A
	Fall test		N/A
	Swing test		N/A
4.2.6	Drop test; height (mm):	No hazards as a result of the drop test.	Pass
4.2.7	Stress relief test		Pass
4.2.8	Cathode ray tubes		N/A
	Picture tube separately certified:		N/A
4.2.9	High pressure lamps		N/A
4.2.10	Wall or ceiling mounted equipment; force (N):		N/A
4.3	Design and construction		Pass
4.3.1	Edges and corners		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		Pass
4.3.5	Connection by plugs and sockets		Pass
4.3.6	Direct plug-in equipment		Pass
	Torque:	0.048 Nm; 89 N	Pass
	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 rate for any battery		N/A

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4.3.9	Oil and grease		N/A
4.3.10	Dust, powders, liquids and gases		N/A
4.3.11	Containers for liquids or gases		N/A
4.3.12	Flammable liquids:		N/A
	Quantity of liquid (I):		N/A
	Flash point (°C)		N/A
4.3.13	Radiation		Pass
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:		N/A
4.3.13.5	Laser (including LEDs)		Pass
	Laser class:	Visible indicator LED operating within the range of 400-700 nm wavelength.	-
4.3.13.6	Other types:		N/A
4.4	Protection against hazardous moving parts		N/A
4.4.1	General		N/A
4.4.2	Protection in operator access areas:		N/A
4.4.3	Protection in restricted access locations:		N/A
4.4.4	Protection in service access areas		N/A
4.5	Thermal requirements		Pass
4.5.1	General		Pass
4.5.2	Temperature tests		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

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4.5.4	Touch temperature limits		Pass
4.5.5	Resistance to abnormal heat:	Less than 2mm.	Pass
4.6	Openings in enclosures		N/A
4.6.1	Top and side openings		N/A
	Dimensions (mm):		-
4.6.2	Bottoms of fire enclosures		N/A
	Construction of the bottom, dimensions (mm):		-
4.6.3	Doors or covers in fire enclosures		N/A
4.6.4	Openings in transportable equipment		N/A
4.6.4.1	Constructional design measures		N/A
	Dimensions (mm):		-
4.6.4.2	Evaluation measures for larger openings		N/A
4.6.4.3	Use of metallized parts		N/A
4.6.5	Adhesives for constructional purposes		N/A
	Conditioning temperature (°C), time (weeks):		-
4.7	Resistance to fire		Pass
4.7.1	Reducing the risk of ignition and spread of flame		Pass
	Method 1, selection and application of components wiring and materials	(see appended table 4.7)	Pass
	Method 2, application of all of simulated fault condition tests	(see appended table 5.3)	Pass
4.7.2	Conditions for a fire enclosure		N/A
4.7.2.1	Parts requiring a fire enclosure		N/A
4.7.2.2	Parts not requiring a fire enclosure		N/A
4.7.3	Materials		Pass
4.7.3.1	General		Pass
4.7.3.2	Materials for fire enclosures	V-0 for original test and V-1 for models GT-41060-2512 and GT-41060-1505 used under Tma=70 Deg. C	Pass
4.7.3.3	Materials for components and other parts outside fire enclosures		N/A
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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5	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS		
5.1	Touch current and protective conductor current		Pass
5.1.1	General		Pass
5.1.2	Configuration of equipment under test (EUT)		Pass
5.1.2.1	Single connection to an a.c. mains supply		Pass
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		Pass
5.1.4	Application of measuring instrument		Pass
5.1.5	Test procedure		Pass
5.1.6	Test measurements		Pass
	Supply voltage (V):	264	-
	Measured touch current (mA):	<0.005	-
	Max. allowed touch current (mA):	0.25	-
	Measured protective conductor current (mA):	N/A - Class II Device	-
	Max. allowed protective conductor current (mA) :	N/A - Class II Device	-
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
	<ul> <li>b) EUT whose telecommunication ports have no reference to protective earth</li> </ul>		N/A
5.2	Electric strength		Pass
5.2.1	General		Pass

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5.2.2	Test procedure	Pass
5.3	Abnormal operating and fault conditions	Pass
5.3.1	Protection against overload and abnormal operation	Pass
5.3.2	Motors	N/A
5.3.3	Transformers	Pass
5.3.4	Functional insulation	N/A
5.3.5	Electromechanical components	N/A
5.3.6	Audio amplifiers in ITE:	N/A
5.3.7	Simulation of faults	Pass
5.3.8	Unattended equipment	N/A
5.3.9	Compliance criteria for abnormal operating and fault conditions	Pass
5.3.9.1	During the tests	Pass
5.3.9.2	After the tests	Pass

#### 7 CONNECTION TO CABLE DISTRIBUTION SYSTEMS N/A

В	ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and	N/A
	5.3.2)	

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С	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)		Pass
	Position:	See critical components table for details.	-
	Manufacturer:	See critical components table for details.	-
	Туре:	See critical components table for details.	-
	Rated values:	See critical components table for details.	-
	Method of protection:	Provided by primary fusing.	-
C.1	Overload test		Pass
C.2	Insulation		Pass
	Protection from displacement of windings:	Margin tape provided on each end of each winding.	Pass

D	ANNEX D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS (see 5.1.4)		Pass
D.1	Measuring instrument		Pass
D.2	Alternative measuring instrument		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	Pass
	(see 2.10 and Annex G)	

G	ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM	N/A
	CLEARANCES	

H ANNEX H, IONIZING RADIATION (see 4.3.13)	N/A
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J	ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)	

К	ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.8)	N/A

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

Q	ANNEX Q, Voltage dependent resistors (VDRs) (see 1.5.9.1)		Pass
	a) Preferred climatic categories	UL R/C Varistor employed.	N/A
	b) Maximum continuous voltage:		N/A
	c) Pulse current:		N/A

R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL	N/A
	PROGRAMMES	

Т	ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see	N/A
	1.1.2)	

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U	ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED	N/A
	INSULATION (see 2.10.5.4)	

V	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)	N/A
v	ANNEX V, ACTOWER DISTRIBUTION STOTEMS (See 1.0.1)	1 1/

WANNEX W, SUMMATION OF TOUCH CURRENTSN/A
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Х	ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see	N/A
	clause C.1)	

Y ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)	N/A
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Z ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2 and Clause G.2)	Pass
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AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)	N/A

### **Enclosure**

### **National Differences**

USA / Canada

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	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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	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	N/A

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	routine testing.	
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.	Pass

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3.1.1	All interconnecting cables protected against overcurrent and short circuit.	N/A
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	N/A

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	(0.82 mm <sup>2</sup> ) and not less than 150 mm in length for 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 then 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 <sup>2</sup> ) 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

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3.3.4	Terminals accept current-carrying conductors rated 125% of the equipment current rating.	N/A
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.	Pass
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	N/A

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	comply with 4.3.12 under all conditions of servicing marked to indicate the presence of radiation where 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 <sup>3</sup> 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 <sup>2</sup> 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.	N/A
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	N/A

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	telecommunication network.	
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
Н	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

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NAF	Household/Home Office Document Shredders	N/A
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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1.6.2	TABLE:	TABLE: electrical data (in normal conditions)				Pass	
U (V)	I (A)	I rated (A)	P (W)	Fuse #	I fuse (A)	condition/sta	tus
90	0.362	0.6	19.7	-	0.362	Model GT-41060-1505	
100	0.338	0.6	19.7	-	0.338	Model GT-41060-1505	
120	0.305	0.6	19.7	-	0.305	Model GT-41060-1505	
132	0.291	0.6	19.5	-	0.291	Model GT-41060-1505	
220	0.235	0.6	19.7	-	0.235	Model GT-41060-1505	
240	0.216	0.6	19.6	-	0.216	Model GT-41060-1505	,
264	0.201	0.6	19.6	-	0.201	Model GT-41060-1505	,
90	0.405	0.6	22.5	-	0.405	Model GT-41060-1809	)
100	0.375	0.6	22.4	-	0.375	Model GT-41060-1809	
120	0.333	0.6	22.5	-	0.333	Model GT-41060-1809	
132	0.322	0.6	22.3	-	0.322	Model GT-41060-1809	
220	0.266	0.6	22.6	-	0.266	Model GT-41060-1809	
240	0.249	0.6	22.9	-	0.249	Model GT-41060-1809	
264	0.233	0.6	23.0	-	0.233	Model GT-41060-1809	
90	0.530	0.6	29.5	-	0.530	Model GT-41060-2518	8
100	0.488	0.6	29.3	-	0.488	Model GT-41060-2518	6
120	0.439	0.6	29.1	-	0.439	Model GT-41060-2518	6
132	0.416	0.6	29.9	-	0.416	Model GT-41060-2518	6
220	0.332	0.6	30.0	-	0.332	Model GT-41060-2518	6
240	0.310	0.6	30.1	-	0.310	Model GT-41060-2518	6
264	0.289	0.6	30.2	-	0.289	Model GT-41060-2518	6
90	0.515	0.6	28.9	-	0.515	Model GT-41060-2530	
100	0.477	0.6	28.8	-	0.477	Model GT-41060-2530	
120	0.430	0.6	28.6	-	0.430	Model GT-41060-2530	
132	0.403	0.6	28.6	-	0.403	Model GT-41060-2530	
220	0.339	0.6	30.4	-	0.339	Model GT-41060-2530	
240	0.316	0.6	30.5	-	0.316	Model GT-41060-2530	
264	0.295	0.6	30.8	-	0.295	Model GT-41060-2530	
90V50H z	0.157		6.2	-	0.157	Condition A/ Model GT 2512	-41060-
100V50	0.141	0.6	6.1	-	0.141	Condition A/ Model GT	-41060-
Hz						2512	
240V/50	0.093	0.6	6.7	-	0.093	Condition A/ Model GT	-41060-
Hz						2512	
264V/50	0.088		6.8	-	0.088	Condition A/ Model GI	-41060-
HZ	0.400		<u> </u>		0.100	2512	
90V60H	0.136		6.1	-	0.136	Condition A/ Model GI	-41060-
Z	0.404	0.0	<u> </u>		0.404	2512 Constition A/Madel OT	44000
100V60 Hz	0.124	0.6	6.0	-	0.124	2512	-41060-
240V/60 Hz	0.090	0.6	6.8	-	0.090	Condition A/ Model GT 2512	-41060-
264V/60 Hz	0.093		6.8	-	0.093	Condition A/ Model GT 2512	-41060-
90V50H	0.101		3.6	-	0.101	Condition B/ Model GT	-41060-

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100V50         0.094         0.6         3.7         -         0.094         Condition B/ Model GT-41060- 1505           YZ20V/50         0.066         0.6         4.1         -         0.066         Condition B/ Model GT-41060- 1505           Z64V/50         0.065         -         4.2         -         0.065         Condition B/ Model GT-41060- 1505           V000H         0.084         -         3.6         -         0.084         Condition B/ Model GT-41060- 1505           V000H         0.077         0.6         3.7         -         0.077         Condition B/ Model GT-41060- 1505           V000D         0.072         -         4.2         -         0.072         Condition B/ Model GT-41060- 1505           V000D         0.072         -         4.2         -         0.072         Condition B/ Model GT-41060- 1505           V24V/60         0.072         -         4.2         -         0.072         Condition B/ Model GT-41060- 1505           V24V/60         0.072         -         4.2         -         0.072         Condition B/ Model GT-41060- 1505           V24V/60         0.572         -         -         -         -         -         -           V1050         0.565 <t< th=""><th>Z</th><th></th><th></th><th></th><th></th><th></th><th>1505</th></t<>	Z						1505
Hz         1505           240V/50         0.066         0.6         4.1         -         0.066         Condition B/ Model GT-41060-1505           254V/50         0.065         -         4.2         -         0.065         Condition B/ Model GT-41060-1505           90V60H         0.084         -         3.6         -         0.084         Condition B/ Model GT-41060-1505           240V/60         0.077         0.6         3.7         -         0.077         Condition B/ Model GT-41060-1505           240V/60         0.066         0.6         4.1         -         0.066         Condition B/ Model GT-41060-1505           240V/60         0.072         -         4.2         -         0.072         Condition B/ Model GT-41060-1505           253         0.6         28.7         F1         0.565         Maximum Normal Load           90/60H2         0.565         0.6         28.7         F1         0.573         Maximum Normal Load           100/50         0.532         0.6         28.8         F1         0.532         Maximum Normal Load           100/50         0.253         0.6         29.5         F1         0.272         Maximum Normal Load           240/50         0.240 <td>100V50</td> <td>0.094</td> <td>0.6</td> <td>3.7</td> <td>-</td> <td>0.094</td> <td>Condition B/ Model GT-41060-</td>	100V50	0.094	0.6	3.7	-	0.094	Condition B/ Model GT-41060-
240/Y50         0.066         0.6         4.1         -         0.066         Condition B/ Model GT-41060- 1505           Version         0.065         -         4.2         -         0.065         Condition B/ Model GT-41060- 1505           Version         0.084         -         3.6         -         0.084         Condition B/ Model GT-41060- 1505           Version         0.077         0.6         3.7         -         0.077         Condition B/ Model GT-41060- 1505           Version         0.066         0.6         4.1         -         0.066         Condition B/ Model GT-41060- 1505           Version         0.072         -         4.2         -         0.072         Condition B/ Model GT-41060- 1505           Version         0.77         0.6         2.8.7         F1         0.565         Maximum Normal Load           264/V60         0.565         0.6         2.8.7         F1         0.536         Maximum Normal Load           200/501z         0.565         0.6         2.8.3         F1         0.536         Maximum Normal Load           100/50         0.532         0.6         2.9.3         F1         0.532         Maximum Normal Load           240/50         0.240         0.6 <td>Hz</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1505</td>	Hz						1505
Hz         1505           264V/50         0.065          4.2         -         0.065         Condition B/ Model GT-41060-1505           90V60H         0.084          3.6         -         0.084         Condition B/ Model GT-41060-1505           100V60         0.077         0.6         3.7         -         0.077         Condition B/ Model GT-41060-1505           240V/60         0.066         0.6         4.1         -         0.066         Condition B/ Model GT-41060-1505           240V/60         0.072          4.2         -         0.072         Condition B/ Model GT-41060-1505           7         -         -         -         0.072         Condition B/ Model GT-41060-1505           7         -         -         -         -         -         -           264V/60         0.072         -         4.2         -         0.072         Condition B/ Model GT-41060-1505           7         -         -         -         -         -         -         -           90/50H2         0.565         0.6         28.7         F1         0.573         Maximum Normal Load           100/60         0.532         0.6         28.3	240V/50	0.066	0.6	4.1	-	0.066	Condition B/ Model GT-41060-
2641/50         0.065          4.2         -         0.065         Condition B/ Model GT-41060- 1505           90/60H         0.084          3.6         -         0.084         Condition B/ Model GT-41060- 1505           240/760         0.077         0.6         3.7         -         0.077         Condition B/ Model GT-41060- 1505           240/760         0.066         0.6         4.1         -         0.066         Condition B/ Model GT-41060- 1505           2440/760         0.072          4.2         -         0.072         Condition B/ Model GT-41060- 1505           2647/700         0.072          4.2         -         0.072         Condition B/ Model GT-41060- 1505           7         -         -         -         -         -         -         -           264700         0.072          4.2         -         0.072         Condition B/ Model GT-41060- 1505           90/50H2         0.565         0.6         28.7         F1         0.565         Maximum Normal Load           100/60         0.532         0.6         28.3         F1         0.536         Maximum Normal Load           12         240/50         0.253         <	Hz						1505
Hz         1505           90V60H         0.084          3.6         -         0.084         Condition B/ Model GT-41060- 1505           100V60         0.077         0.6         3.7         -         0.077         Condition B/ Model GT-41060- 1505           12         0.066         0.66         4.1         -         0.066         Condition B/ Model GT-41060- 1505           12         0.072          4.2         -         0.072         Condition B/ Model GT-41060- 1505           12         -         4.2         -         0.072         Condition B/ Model GT-41060- 1505           12         -         -         -         -         -         -           261/60         0.072          4.2         -         -         -           263/0         0.61         28.7         F1         0.565         Maximum Normal Load         90/60H2           90/60H2         0.565         0.6         28.3         F1         0.536         Maximum Normal Load           100/50         0.532         0.6         29.5         F1         0.253         Maximum Normal Load           240/50         0.272         0.6         29.5         F1         <	264V/50	0.065		4.2	-	0.065	Condition B/ Model GT-41060-
90V60H         0.084          3.6         -         0.084         Condition B/ Model GT-41060- 1505           240V/60         0.066         0.6         4.1         -         0.077         Condition B/ Model GT-41060- 1505           240V/60         0.066         0.6         4.1         -         0.066         Condition B/ Model GT-41060- 1505           254V/60         0.072          4.2         -         0.072         Condition B/ Model GT-41060- 1505           264V/60         0.072          4.2         -         0.072         Condition B/ Model GT-41060- 1505           7                  41060-                  530         0.555         0.6         28.7         F1         0.565         Maximum Normal Load           100/50         0.532         0.6         28.3         F1         0.532         Maximum Normal Load           12         100/60         0.532         0.6         29.5         F1         0.253         Maximum Normal Load           240/60         0.272         0.6         29.5	Hz						1505
z         1505           100V60         0.077         0.6         3.7         -         0.077         Condition B/ Model GT-41060-1505           240V/60         0.066         0.6         4.1         -         0.066         Condition B/ Model GT-41060-1505           254V/60         0.072          4.2         -         0.072         Condition B/ Model GT-41060-1505           GT-          -         -         -         -         -           90/50Hz         0.565         0.6         28.7         F1         0.565         Maximum Normal Load           100/50         0.536         0.6         28.3         F1         0.536         Maximum Normal Load           100/50         0.532         0.6         28.3         F1         0.532         Maximum Normal Load           120/60         0.272         0.6         29.5         F1         0.272         Maximum Normal Load           12         240/50         0.240         0.6         29.5         F1         0.240         Maximum Normal Load           12         24/60         0.255         0.6         29.5         F1         0.255         Maximum Normal Load           12         0.6	90V60H	0.084		3.6	-	0.084	Condition B/ Model GT-41060-
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	z						1505
Hz         1506           240V/60         0.066         0.6         4.1         -         0.066         Condition B/ Model GT-41060- 1505           264V/60         0.072          4.2         -         0.072         Condition B/ Model GT-41060- 1505           VIC          -         -         -         -         -           41060- 2530          -         -         -         -           90/50Hz         0.565         0.6         28.7         F1         0.565         Maximum Normal Load           90/50Hz         0.536         0.6         28.3         F1         0.536         Maximum Normal Load           100/50         0.536         0.6         28.3         F1         0.532         Maximum Normal Load           12         -         -         -         -         -         -           240/50         0.253         0.6         28.8         F1         0.253         Maximum Normal Load           Hz         -         -         -         -         -         -         -           240/60         0.240         0.6         29.5         F1         0.240         Maximum Normal Load	100V60	0.077	0.6	3.7	-	0.077	Condition B/ Model GT-41060-
240V/60         0.066         0.6         4.1         -         0.066         Condition B/ Model GT-41060-1505           Velocition B/         0.072          4.2         -         0.072         Condition B/ Model GT-41060-1505           GT-           0.072         Condition B/ Model GT-41060-1505           GT-                41060-2530         0.6         28.7         F1         0.565         Maximum Normal Load           90/60Hz         0.573         0.6         29.0         F1         0.573         Maximum Normal Load           100/50         0.536         0.6         28.3         F1         0.536         Maximum Normal Load           100/60         0.532         0.6         29.3         F1         0.532         Maximum Normal Load           240/50         0.253         0.6         29.5         F1         0.253         Maximum Normal Load           Hz         240/60         0.272         0.6         29.5         F1         0.272         Maximum Normal Load           Hz         0.265         0.6         29.5         F1         0.255         Maximum Normal Load           10	Hz						1505
Hz         Image: constraint of the second sec	240V/60	0.066	0.6	4.1	-	0.066	Condition B/ Model GT-41060-
264V/60         0.072          4.2         -         0.072         Condition B/ Model GT-41060- 1505           GT- 41060- 2530                   1505           90/50Hz         0.565         0.6         28.7         F1         0.565         Maximum Normal Load         90/60Hz         0.573         Maximum Normal Load           100/50         0.536         0.6         28.3         F1         0.536         Maximum Normal Load           100/60         0.532         0.6         29.3         F1         0.532         Maximum Normal Load           240/50         0.253         0.6         29.5         F1         0.272         Maximum Normal Load           240/60         0.272         0.6         29.5         F1         0.240         Maximum Normal Load           264/50         0.240         0.6         29.5         F1         0.255         Maximum Normal Load           105                  6T-               -	Hz						1505
Hz       Image: Constraint of the second seco	264V/60	0.072		4.2	-	0.072	Condition B/ Model GT-41060-
$GT_{+1060}$ $90/50Hz$ 0.565       0.6       28.7       F1       0.565       Maximum Normal Load $90/60Hz$ 0.573       0.6       29.0       F1       0.573       Maximum Normal Load $90/60Hz$ 0.573       0.6       29.0       F1       0.573       Maximum Normal Load $100/60$ 0.532       0.6       28.3       F1       0.532       Maximum Normal Load $120/50$ 0.253       0.6       28.8       F1       0.532       Maximum Normal Load $240/50$ 0.253       0.6       28.8       F1       0.253       Maximum Normal Load $240/50$ 0.272       0.6       29.5       F1       0.272       Maximum Normal Load $264/50$ 0.240       0.6       29.5       F1       0.240       Maximum Normal Load $12$ 0.6       29.5       F1       0.255       Maximum Normal Load $264/60$ 0.255       0.6       20.7       F1       0.389       Maximum Normal Load $90/60Hz$ 0.389       0.6       20.7       F1       0.400 <td>Hz</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1505</td>	Hz						1505
41060- 2530         Answer         F1         0.565         Maximum Normal Load           90/60Hz         0.565         0.6         28.7         F1         0.573         Maximum Normal Load           100/50         0.536         0.6         28.3         F1         0.536         Maximum Normal Load           100/50         0.532         0.6         28.3         F1         0.536         Maximum Normal Load           100/50         0.532         0.6         29.3         F1         0.532         Maximum Normal Load           240/50         0.253         0.6         28.8         F1         0.253         Maximum Normal Load           240/50         0.272         0.6         29.5         F1         0.272         Maximum Normal Load           264/50         0.240         0.6         29.5         F1         0.240         Maximum Normal Load           264/60         0.255         0.6         29.5         F1         0.240         Maximum Normal Load           100         0.505         -         -         -         -         -         -           GT-         -         -         -         -         -         -         -         -         -	GT-						
2530 <td>41060-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	41060-						
90/50Hz         0.66         28.7         F1         0.565         Maximum Normal Load           90/60Hz         0.573         0.6         29.0         F1         0.573         Maximum Normal Load           100/50         0.536         0.6         28.3         F1         0.536         Maximum Normal Load           100/60         0.532         0.6         28.8         F1         0.532         Maximum Normal Load           240/50         0.253         0.6         28.8         F1         0.253         Maximum Normal Load           240/60         0.272         0.6         29.5         F1         0.272         Maximum Normal Load           4z         264/60         0.240         0.6         29.5         F1         0.255         Maximum Normal Load           4z                  264/60         0.255         0.6         29.5         F1         0.255         Maximum Normal Load           90/50Hz         0.389         0.6         20.7         F1         0.400         Maximum Normal Load           90/60Hz         0.400         0.6         20.7         F1         0.400         Maximum	2530						
90/60Hz         0.573         0.6         29.0         F1         0.573         Maximum Normal Load           100/50         0.536         0.6         28.3         F1         0.536         Maximum Normal Load           100/60         0.532         0.6         29.3         F1         0.532         Maximum Normal Load           240/50         0.253         0.6         28.8         F1         0.253         Maximum Normal Load           240/60         0.272         0.6         29.5         F1         0.272         Maximum Normal Load           264/50         0.240         0.6         29.5         F1         0.272         Maximum Normal Load           12         0.6         29.5         F1         0.240         Maximum Normal Load           14z         0.6         29.5         F1         0.255         Maximum Normal Load           264/60         0.255         0.6         29.5         F1         0.255         Maximum Normal Load           105                 90/50Hz         0.389         0.6         20.7         F1         0.375         Maximum Normal Load           100/60         <	90/50Hz	0.565	0.6	28.7	F1	0.565	Maximum Normal Load
100/50 Hz         0.536         0.6         28.3         F1         0.536         Maximum Normal Load           100/60 Hz         0.532         0.6         29.3         F1         0.532         Maximum Normal Load           240/50 Hz         0.253         0.6         28.8         F1         0.253         Maximum Normal Load           240/50 Hz         0.272         0.6         29.5         F1         0.272         Maximum Normal Load           264/50         0.240         0.6         29.3         F1         0.240         Maximum Normal Load           264/50         0.240         0.6         29.3         F1         0.240         Maximum Normal Load           264/50         0.240         0.6         29.5         F1         0.255         Maximum Normal Load           264/50         0.255         0.6         29.5         F1         0.255         Maximum Normal Load           264/50         0.264         0.6         20.7         F1         0.389         Maximum Normal Load           90/60Hz         0.400         0.6         20.7         F1         0.375         Maximum Normal Load           100/50         0.375         0.6         20.6         F1         0.375	90/60Hz	0.573	0.6	29.0	F1	0.573	Maximum Normal Load
Hz         Dot         Dot <thdot< th="">         Dot         <thdot< th=""> <thdot< th=""> <thdot< th=""></thdot<></thdot<></thdot<></thdot<>	100/50	0.536	0.6	28.3	F1	0.536	Maximum Normal Load
100/60       0.532       0.6       29.3       F1       0.532       Maximum Normal Load         240/50       0.253       0.6       28.8       F1       0.253       Maximum Normal Load         Hz       0.06       29.5       F1       0.272       Maximum Normal Load         240/60       0.272       0.6       29.5       F1       0.272       Maximum Normal Load         264/50       0.240       0.6       29.3       F1       0.240       Maximum Normal Load         264/60       0.255       0.6       29.5       F1       0.255       Maximum Normal Load         264/60       0.255       0.6       29.5       F1       0.255       Maximum Normal Load         264/60       0.255       0.6       29.5       F1       0.255       Maximum Normal Load         90/50Hz       0.389       0.6       20.7       F1       0.389       Maximum Normal Load         90/60Hz       0.400       0.6       20.7       F1       0.375       Maximum Normal Load         100/50       0.375       0.6       20.6       F1       0.375       Maximum Normal Load         100/50       0.375       0.6       20.6       F1       0.375	Hz						
Hz         International and the second	100/60	0.532	0.6	29.3	F1	0.532	Maximum Normal Load
240/50 Hz         0.253         0.6         28.8         F1         0.253         Maximum Normal Load           240/60 Hz         0.272         0.6         29.5         F1         0.272         Maximum Normal Load           264/50         0.240         0.6         29.3         F1         0.240         Maximum Normal Load           264/60 Hz         0.255         0.6         29.5         F1         0.255         Maximum Normal Load           264/60 Hz         0.255         0.6         29.5         F1         0.255         Maximum Normal Load           264/60 Hz         0.255         0.6         29.5         F1         0.255         Maximum Normal Load           264/60         0.255         0.6         29.7         F1         0.389         Maximum Normal Load           GT- 1505           -         -         -         -           90/50Hz         0.389         0.6         20.7         F1         0.400         Maximum Normal Load           90/60Hz         0.400         0.6         20.6         F1         0.375         Maximum Normal Load           100/60         0.375         0.6         20.6         F1         0.375         Maximum Nor	Hz						
HzImage: second se	240/50	0.253	0.6	28.8	F1	0.253	Maximum Normal Load
240/60 Hz         0.272         0.6         29.5         F1         0.272         Maximum Normal Load           264/50 Hz         0.240         0.6         29.3         F1         0.240         Maximum Normal Load           264/60 Hz         0.255         0.6         29.5         F1         0.255         Maximum Normal Load           264/60 Hz         0.255         0.6         29.5         F1         0.255         Maximum Normal Load           264/60 Hz         0.255         0.6         29.5         F1         0.255         Maximum Normal Load           264/60 Hz         0.255         0.6         29.7         F1         0.289         Maximum Normal Load           90/50Hz         0.389         0.6         20.7         F1         0.389         Maximum Normal Load           90/60Hz         0.400         0.6         20.7         F1         0.400         Maximum Normal Load           100/50         0.375         0.6         20.6         F1         0.375         Maximum Normal Load           4z         0.6         20.7         F1         0.207         Maximum Normal Load           4z         0.6         20.7         F1         0.208         Maximum Normal Load	Hz						
Hz       Image: Constraint of the second secon	240/60	0.272	0.6	29.5	F1	0.272	Maximum Normal Load
264/50         0.240         0.6         29.3         F1         0.240         Maximum Normal Load           264/60         0.255         0.6         29.5         F1         0.255         Maximum Normal Load           GT- 41060- 1505                 90/50Hz         0.389         0.6         20.7         F1         0.389         Maximum Normal Load           90/60Hz         0.400         0.6         20.7         F1         0.389         Maximum Normal Load           90/60Hz         0.400         0.6         20.7         F1         0.389         Maximum Normal Load           100/50         0.375         0.6         20.6         F1         0.375         Maximum Normal Load           100/60         0.375         0.6         20.6         F1         0.375         Maximum Normal Load           100/60         0.375         0.6         20.7         F1         0.207         Maximum Normal Load           1240/50         0.207         0.6         20.7         F1         0.207         Maximum Normal Load           240/50         0.208         0.6         21.0         F1         0.208         Maximum Norma	Hz						
HzImage: HzIm	264/50	0.240	0.6	29.3	F1	0.240	Maximum Normal Load
264/60         0.255         0.6         29.5         F1         0.255         Maximum Normal Load           GT- 41060- 1505                   90/50Hz         0.389         0.6         20.7         F1         0.389         Maximum Normal Load           90/60Hz         0.400         0.6         20.7         F1         0.400         Maximum Normal Load           90/60Hz         0.400         0.6         20.7         F1         0.400         Maximum Normal Load           100/50         0.375         0.6         20.6         F1         0.375         Maximum Normal Load           100/60         0.375         0.6         20.6         F1         0.375         Maximum Normal Load           100/60         0.375         0.6         20.6         F1         0.375         Maximum Normal Load           240/50         0.207         0.6         20.7         F1         0.207         Maximum Normal Load           240/60         0.208         0.6         21.0         F1         0.208         Maximum Normal Load           264/50         0.196         0.6         20.9         F1         <	Hz						
Hz       Image: Marcine information of the marcine information	264/60	0.255	0.6	29.5	F1	0.255	Maximum Normal Load
GT- $41060-$ $1505$ $90/50Hz$ 0.3890.620.7F10.389Maximum Normal Load $90/60Hz$ 0.4000.620.7F10.400Maximum Normal Load $90/60Hz$ 0.4000.620.7F10.400Maximum Normal Load $100/50$ 0.3750.620.6F10.375Maximum Normal Load $100/60$ 0.3750.620.6F10.375Maximum Normal Load $100/60$ 0.3750.620.7F10.375Maximum Normal Load $100/60$ 0.2070.620.7F10.207Maximum Normal Load $100/60$ 0.2080.621.0F10.208Maximum Normal Load $240/60$ Hz0.1960.620.9F10.196Maximum Normal Load264/500.1960.621.0F10.193Maximum Normal Load	Hz						
41060- 1505	GT-						
1505       Image: state of the	41060-						
90/50Hz         0.389         0.6         20.7         F1         0.389         Maximum Normal Load           90/60Hz         0.400         0.6         20.7         F1         0.400         Maximum Normal Load           100/50         0.375         0.6         20.6         F1         0.375         Maximum Normal Load           100/60         0.375         0.6         20.6         F1         0.375         Maximum Normal Load           100/60         0.375         0.6         20.6         F1         0.375         Maximum Normal Load           100/60         0.375         0.6         20.6         F1         0.375         Maximum Normal Load           240/50         0.207         0.6         20.7         F1         0.207         Maximum Normal Load           240/60         0.208         0.6         21.0         F1         0.208         Maximum Normal Load           Hz         0.196         0.6         20.9         F1         0.196         Maximum Normal Load           264/60         0.193         0.6         21.0         F1         0.193         Maximum Normal Load	1505						
90/60Hz         0.400         0.6         20.7         F1         0.400         Maximum Normal Load           100/50         0.375         0.6         20.6         F1         0.375         Maximum Normal Load           100/60         0.375         0.6         20.6         F1         0.375         Maximum Normal Load           100/60         0.375         0.6         20.6         F1         0.375         Maximum Normal Load           240/50         0.207         0.6         20.7         F1         0.207         Maximum Normal Load           240/60         0.208         0.6         21.0         F1         0.208         Maximum Normal Load           264/50         0.196         0.6         20.9         F1         0.196         Maximum Normal Load           264/60         0.193         0.6         21.0         F1         0.193         Maximum Normal Load	90/50Hz	0.389	0.6	20.7	F1	0.389	Maximum Normal Load
100/50       0.375       0.6       20.6       F1       0.375       Maximum Normal Load         100/60       0.375       0.6       20.6       F1       0.375       Maximum Normal Load         240/50       0.207       0.6       20.7       F1       0.207       Maximum Normal Load         240/60       0.208       0.6       21.0       F1       0.208       Maximum Normal Load         264/50       0.196       0.6       20.9       F1       0.196       Maximum Normal Load         264/60       0.193       0.6       21.0       F1       0.193       Maximum Normal Load	90/60Hz	0.400	0.6	20.7	F1	0.400	Maximum Normal Load
Hz         Image: Marcine Marc	100/50	0.375	0.6	20.6	F1	0.375	Maximum Normal Load
100/60 Hz       0.375       0.6       20.6       F1       0.375       Maximum Normal Load         240/50 Hz       0.207       0.6       20.7       F1       0.207       Maximum Normal Load         240/60 Hz       0.208       0.6       21.0       F1       0.208       Maximum Normal Load         264/50 Hz       0.196       0.6       20.9       F1       0.196       Maximum Normal Load         264/60       0.193       0.6       21.0       F1       0.193       Maximum Normal Load	Hz						
Hz       Image: Second se	100/60	0.375	0.6	20.6	F1	0.375	Maximum Normal Load
240/50 Hz       0.207       0.6       20.7       F1       0.207       Maximum Normal Load         240/60 Hz       0.208       0.6       21.0       F1       0.208       Maximum Normal Load         264/50 Hz       0.196       0.6       20.9       F1       0.196       Maximum Normal Load         264/60       0.193       0.6       21.0       F1       0.193       Maximum Normal Load	Hz						
Hz         Image: Maximum Normal Load           240/60         0.208         0.6         21.0         F1         0.208         Maximum Normal Load           264/50         0.196         0.6         20.9         F1         0.196         Maximum Normal Load           264/60         0.193         0.6         21.0         F1         0.193         Maximum Normal Load	240/50	0.207	0.6	20.7	F1	0.207	Maximum Normal Load
240/60 Hz       0.208       0.6       21.0       F1       0.208       Maximum Normal Load         264/50 Hz       0.196       0.6       20.9       F1       0.196       Maximum Normal Load         264/60       0.193       0.6       21.0       F1       0.193       Maximum Normal Load	Hz						
Hz         Image: Second system	240/60	0.208	0.6	21.0	F1	0.208	Maximum Normal Load
264/50 Hz         0.196         0.6         20.9         F1         0.196         Maximum Normal Load           264/60         0.193         0.6         21.0         F1         0.193         Maximum Normal Load	Hz						
Hz         Image: Constraint of the second seco	264/50	0.196	0.6	20.9	F1	0.196	Maximum Normal Load
264/60 0.193 0.6 21.0 F1 0.193 Maximum Normal Load	Hz						
	264/60	0.193	0.6	21.0	F1	0.193	Maximum Normal Load

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supplementary information:

Hz

Condition A: Model GT-41060-2512 output 12V/0.4A. Condition B: Model GT-41060-1505 output 5V/0.5A. Maximum Normal Load: Output connected to rated load and operated continuously. GT-41060-2530: (Output rating: 30V, 25W) GT-41060-1505: (Output rating: 5V, 15W)

2.10.3 and 2.10.4 TABLE: clearance and creepage distance measurements							Pass
Clearance ( distance (cr)	cl) and creepage at/of/between:	U peak (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)
Primary to S	econdary	568	366.7	6.4	7.5	8.0	8.0
Functional:							
Clearance ( distance (cr)	cl) and creepage at/of/between:	U peak (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)
Basic/supple	ementary:						
Clearance (c distance (cr)	cl) and creepage at/of/between:	U peak (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)
Reinforced:							
Clearance ( distance (cr)	cl) and creepage 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 <b>TABLE: distance through insulation measurements</b>						Pass	
Distance th	rough insulation (DTI) at/of:	U peak (V)	Urms (V)	Test voltage (V)	Required DTI (mm)	DTI (mm)	
Transforme Secondary	r Separating Tape- Primary to	568		4056	2 Layers (*)	3 Layers(*)	
supplementary information:							
(*) - Indicates the number of layers of thin sheet material used. For additional info see supp. 7-02 & 7-03.							

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4.3.8	TABLE:	TABLE: Batteries							
The tests of battery data	4.3.8 are is not ava	applicable ailable.	e only when a	appropriate					
Is it possible position?	to install	the batter	y in a reverse	e polarity					
	Non-re	chargeabl	e batteries		Rech	argeable	batteries		
	Disch	arging	Un- intentional charging	Charging		Discharging		Rev cha	ersed rging
	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:									Verdict
- Chemical leaks									
- Explosion of the battery									
- Emission of flame or expulsion of molten metal									
- Electric str	ength test	ts of equip	ment after co	mpletion of tests					
supplementa	ary inform	ation:							

4.5	.5 TABLE: Thermal requirements						Pass
	Supply voltage (V) :	90	-	-	-	-	-
	Ambient Tmin (°C):	21.6	-	-	-	-	
	Ambient Tmax (°C):	21.6	-	-	-	-	_

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Maximum measured temperature T of part/at:		T (°C)					
Transformer Core	88.4	-	-	-	-	120	
Enclosure Top	45.8	-	-	-	-	95	
Enclosure Bottom	38.5	-	-	-	-	95	
Bulk Cap -Top	65.0	-	-	-	-	105	
Inductor Winding - Primary Side	94.4	-	-	-	-	120	
Output Connector	62.7	-	-	-	-	105	
Model GT-41060-2512, 12V0.4A, Tma=55 Deg. C	90V/60	90V/60	264V/6	264V/6			
	Hz	Hz	0Hz	0Hz			
Horizontal							
Enclosure Outside near Transformer	33.3	77.3	35.7	80		95	
Enclosure Inside near Transformer	37.1	81.1	41.9	86.2		105	
Line Choke	40.5	84.5	46.1	90.4		130	
PWB near BD1	39.7	83.7	45.4	89.7		105	
Bulk Cap. C1	40.3	84.3	46.9	91.2		105	
Transformer T1 Core	43.4	87.4	50.6	94.9		110	
Transformer T1 Coil	41.8	85.8	48.4	92.7		110	
PC1	39.5	83.5	45.8	90.1		100	
CY1	40.9	84.9	47.0	91.3		125	
PWB near T1	40.0	84	46.9	91.2		105	
Ambient	26.0	Tma=7 0 Deg. C	25.7	Tma=7 0 Deg. C			
Test Duration	2h 26min		2h 40min				
Vertical							
Enclosure Outside near Transformer	33.2	77.3	37.3	80.7		95	
Enclosure Inside near Transformer	37.4	81.5	43.0	86.4		105	
Line Choke	40.7	84.8	46.6	90		130	
PWB near BD1	40.0	84.1	45.9	89.3		105	
Bulk Cap. C1	41.1	85.2	48.2	91.6		105	
Transformer T1 Core	43.5	87.6	51.2	94.6		110	
Transformer T1 Coil	41.9	86	49.1	92.5		110	
PC1	39.8	83.9	46.6	90		100	
CY1	40.9	85	47.4	90.8		125	
PWB near T1	40.1	84.2	47.7	91.1		105	
Ambient	25.9	Tma=7 0	26.6	Tma=7 0			
Test Duration	4h 17min		2h 6min				
GT-41060-2512, 12Vdc/0.4A for alternate enclosure			Vertical				
material and shift tma to 70 degree C							
Enclosure Outside between blades			32.1	77.6		95	
Enclosure - top (near transformer) external surface			34.5	80		95	
Enclosure - top (near transformer) internal surface			42.4	87.9		105	

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Transformer core				46.9	92.4		110
Transformer winding				48.5	94		110
Ambient				24.5	Tma=7		
					0		
Test duration				4h32mi			
				n			
temperature T of winding:	t₁ (°C)	$R_1(\Omega)$	t <sub>2</sub> (°C)	$R_2(\Omega)$	T (°C)	allowed	insulation
				2 ( )		T <sub>max</sub>	class
						(°C)	
Primary Winding P1 Outerwrap		-		-	84.2	120	130
supplementary information:							
Tests conducted on worst case Model for the S	Series: G	T-41060-	2518FW	. Worst c	ase inpu	t voltage	
determined by the input test.						-	
Test of GT-41060-2512 for Tma=70 Deg. C is	based or	n the test	had bee	n conduc	ted on 20	009-07-17	of
TestRecord8, because there is no circuit or con	mponents	s change	except e	nclosure			

4.5.5	5.5 TABLE: Ball pressure test of thermoplastic parts				
	allowed impression diameter (mm)	less than or equal to 2.0			
part		test temperature (°C) impress		on diameter mm)	
Outer Plug-i	n Case	125	0		
supplementa	ary information:				
-					

4.7	TABLE: resistance to fire					
	part	manufacturer of material	type of material	thickness (mm)	flammability class	Evidence
See critical - components table fault condition tests.		-	-	-	-	
supplementary information:						
Refer to Table 1.5.1.						

5.2	TABLE: electric strength tests, impulse	Pass		
Test volta	ge applied between:	Voltage shape (AC, DC, impulse, surge)	Test voltage (V)	Breakdown Yes / No
Mains to S	Secondary Output		4056 / 5737	No

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Malas (s. Essles as		4050 / 5707			
Mains to Enclosure		4056/5737	NO		
Input scope of alternate enclosure material					
Input L&N to Enclosure covered by metal foil		3000Vac	No		
Enclosure body (Thinnest part)		3000Vac	No		
Functional:					
Test voltage applied between:	Voltage shape (AC, DC, impulse, surge)	Test voltage (V)	Breakdown Yes / No		
Basic/supplementary:					
Test voltage applied between:	Voltage shape (AC, DC, impulse, surge)	Test voltage (V)	Breakdown Yes / No		
Reinforced:					
Test voltage applied between:	Voltage shape (AC, DC, impulse, surge)	Test voltage (V)	Breakdown Yes / No		
supplementary information:					
Test conducted on Models GT-41060-1505, -1809, -2518, -2530.					

5.3	TABLE: fault condition tests						Pass
	ambient tempera	ambient temperature (°C): 20.0					
	Power source for output rating	<sup>r</sup> EUT: Manufac	cturer, model/t	GT-41060-2530	)FW	—	
Component No.	Fault	Supply voltage (V)	Test time	Fuse #	Fuse current (A)	Observ	ation
C1	Short	240	<1Sec	F1 & F2	(*)	(*) - Indicates th measurements taken due to du test.	at were not ration of
C7	Short	240	<1Sec	-	-	CT, NB, NC, NT Supply Folds Ba	「 - Power ack
Q1	Short	240	<1Sec	F1 & F2	(*)	IP, NB, NC, NT Opened. No Da Indicates that measurements taken due to du test.	- F1 & F2 amage. (*) - were not ration of

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C2	Short	240	<1Sec	-	-	CT, NB, NC, NTPower Supply Folds Back
GT-41060-						
2530.						
C1	Short	240V/60Hz	5s	F1	0	CD(F1), NC, NT, NB.
GT-41060-						
1505:						
BD1 pin1 to	Short	240V/60Hz	5s	F1	0	CD(F1), NC, NT, NB.
pin2						
Q1 G-S	Short	240V/60Hz	5s	F1	0	Unit Shut down, NC, NT,
						NB.
Q1 G-D	Short	240V/60Hz	5s	F1	0.05	IP, recoverable, NC, NT,
						NB.
Q1 S-D	Short	240V/60Hz	5s	F1	0	Unit Shut down, NC, NT.
-						NB.
supplementary information:						