


SPECIFIC INSPECTION CRITERIA

BA1.0	Special Instructions to UL Representative
BA1.1	Inspect the transformer(s) listed in BD1.1 per AA1.1-(C). 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 BD1.1 be conducted at the component manufacturer.

BB1.0	Supporting Documentation
BB1.1	<p>The following documents located at the beginning of this Procedure supplement the requirements of this Test Report:</p> <p>A. Authorization - The Authorization page may include additional Factory Identification Code markings.</p> <p>B. Generic Inspection Instructions -</p> <ul style="list-style-type: none"> 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.

BC1.0	Markings and instructions	
BC1.1	The following markings and instructions are provided as indicated.	
BC1.2	All clause references are from UL 60950-1, 1st Edition, 2007-10-31 (Information Technology Equipment - Safety - Part 1: General Requirements).	
Standard Clause	Clause Title	Marking or Instruction Details
1.7.1	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)
1.7.6	Fuses - Rating	Rated current and voltage and type located on or adjacent to fuse or

		fuseholder.
Other	LPS	Optional Marked "LPS" or "Limited Power Supply".
	Insulation molded on input blade	The length of insulation plastic part molded on each blade was measured more than 5.1 mm from edge. (see enclosure 4-17 for construction details.)

BD1.0	Production-Line Testing Requirements						
BD1.1	Electric Strength Test Special Constructions - Refer to Generic Inspection Instructions, Part AC for further information.						
	Model	Component	Removable Parts	Test probe location	Test Potential V rms V dc		Test Time, s
	GT-41081-1805, GT-41081-1806, GT-41081-1809, GT-41081-1505, GT-41081-1506, GT-41081-1509	Transformer (T1)	--	Primary to Secondary	3000	424 2	1
BD1.2	Earthing Continuity Test Exemptions - This test is not required for the following models:			GT-41081-1805, GT-41081-1806, GT-41081-1809, GT-41081-1505, GT-41081-1506, GT-41081-1509			
BD1.3	Electric Strength Test Exemptions - This test is not required for the following models:						
BD1.4	Electric Strength Test Component Exemptions - The following solid-state components may disconnected from the remainder of the circuitry during the performance of this test:						

BE1.0	Sample and Test Specifics for Follow-Up Tests at UL					
BE1.1	Model	Component	Material	Test	Sample(s)	Test Specifics
	N/A					

SPECIFIC TECHNICAL CRITERIA

UL 60950-1, First Edition Information technology equipment - Safety- Part 1: General Requirements	
Report Reference No	E170507-A34-UL-1
Compiled by	Lucas Wang
Reviewed by	Jenly Ge
Date of issue	2010-01-28
Standards	UL 60950-1, 1st Edition, 2007-10-31 (Information Technology Equipment - Safety - Part 1: General Requirements) CSA C22.2 No. 60950-1-03, 1st Edition, 2006-07 (Information Technology Equipment - Safety - Part 1: General Requirements)
Test procedure	Listing
Non-standard test method	N/A
Test item description	SWITCHING POWER ADAPTER
Trademark	None
Model and/or type reference	GT-41081-WWVV-X.X WW is the rated output wattage designation, with a maximum value of "18"; VV is the standard rated output voltage designation, with a maximum value of "09"; X.X designates the optional deviation, X.X should be VV minus the rated voltage, and it can be blank.
Rating(s)	I/P: 100 - 240 V ac, 50-60 Hz, 0.6 A; O/P: 5 V dc, 3 A for Model GT-41081-1805. O/P: 6 V dc, 3 A for Model GT-41081-1806. O/P: 9 V dc, 2 A for Model GT-41081-1809. O/P: 5 V dc, 2.6 A for Model GT-41081-1505. O/P: 6 V dc, 2.5 A for Model GT-41081-1506. O/P: 9 V dc, 1.7 A for Model GT-41081-1509.

Particulars: test item vs. test requirements

Equipment mobility: direct plug-in
Operating condition: continuous
Mains supply tolerance (%): +10%, -10%
Tested for IT power systems: N/A
IT testing, phase-phase voltage (V): N/A
Class of equipment: Class II (double insulated)
Mass of equipment (kg): 0.19
Protection against ingress of water: IP X0

Possible test case verdicts:

- test case does not apply to the test object: N / A
- test object does meet the requirement: Pass
- test object does not meet the requirement: Fail (acceptable only if a corresponding, less stringent national requirement is "Pass")

General remarks:

- "(see Enclosure #)" refers to additional information appended to the Test Report
- "(see appended table)" refers to a table appended to the Test Report
- Throughout the Test Report a point is used as the decimal separator

GENERAL PRODUCT INFORMATION:	
CA1.0	Report Summary
CA1.1	N/A
CB1.0	Product Description
CB1.1	Electronic Component mounted on PWB and housed with plastic enclosure.
CC1.0	Model Differences
CC1.1	- Models GT-41081-1805, GT-41081-1809, GT-41081-1505, GT-41081-1506, and GT-41081-1509 are similar to Model GT-41081-1806 except for transformer T1 construction, NF2 construction and output rating.
CD1.0	Additional Information
CD1.1	N/A
CE1.0	Technical Considerations
CE1.2	The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: 40 degree C
CE1.3	The means of connection to the mains supply is: Pluggable A, Direct Plug-In Unit.
CE1.4	The product is intended for use on the following power systems: TN
CE1.5	The equipment disconnect device is considered to be: Plug
CE1.7	The product was investigated to the following additional standards: The product was investigated to the following additional standards: UL 1310 Class 2 Power Units (Mechanical Requirements on blades Only); also the blade dimension was evaluated to be complied with NEMA configurations in accordance with Wiring Devices-dimensional Specifications, ANSI/NEMA WD6.
CE1.8	The following accessible locations (with circuit/schematic designation) are within a limited current circuit: secondary of CY1.
CE1.9	The following circuit locations (with circuit/schematic designation) were investigated as a limited power source (LPS): (V+ to V-) Output. Evaluated on the PWB output instead of output after output cord.
CE1.14	The following are available from the Applicant upon request: Installation (Safety) Instructions / Manual

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

1	GENERAL		Pass
1.5	Components		Pass
1.5.1	General		Pass
	Comply with IEC 60950 or relevant component standard	(see appended table 1.5.1)	Pass
1.5.2	Evaluation and testing of components	<p>- Certified components are used in accordance with their ratings, certifications and they comply with applicable parts of this Standard.</p> <p>- Components not certified are used in accordance with their ratings and they comply IEC60950-1 and the relevant component Standard.</p> <p>- Components, for which no relevant IEC Standard exist, have been tested under the condition occurring in the equipment, using applicable parts of IEC60950-1.</p>	Pass
1.5.3	Thermal controls	There are no thermal controls.	N/A
1.5.4	Transformers	See Annex C-Transformers.	Pass
1.5.5	Interconnecting cables	Interconnecting cables comply with the relevant requirements of this standard.	Pass
1.5.6	Capacitors in primary circuits	Line-to-line capacitors are subclass X1 or X2.	Pass
1.5.7	Double insulation or reinforced insulation bridged by components		Pass
1.5.7.1	General		Pass
1.5.7.2	Bridging capacitors	Double Insulation bridged by a single capacitor complying with IEC 60384-14: 1993, subclass Y1.	Pass
1.5.7.3	Bridging resistors		N/A
1.5.7.4	Accessible parts	Accessible conductive parts separated from other parts by DOUBLE or REINFORCED INSULATION comply with the	Pass

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

		requirements for LIMITED CURRENT CIRCUITS. The circuit's available current maximum 0.134 MIU measured.	
1.5.8	Components in equipment for IT power systems	Not for use on IT power systems.	N/A

1.6	Power interface		Pass
1.6.1	AC power distribution systems	AC power distribution systems are classify as TN.	Pass
1.6.2	Input current	The steady state input current of the equipment did not exceed the RATED CURRENT by more than 10% under NORMAL LOAD. - (see appended table 1.6.2)	Pass
1.6.3	Voltage limit of hand-held equipment	Not hand-held equipment.	N/A
1.6.4	Neutral conductor	Neutral conductor was served as line conductor.	Pass

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

1.7	Marking and instructions		Pass
1.7.1	Power rating	Rating marking readily visible to operator. See below for details.	Pass
	Rated voltage(s) or voltage range(s) (V)	Refer to the Rating information at the beginning of this Test Report.	Pass
	Symbol for nature of supply, for d.c. only	AC Source	N/A
	Rated frequency or rated frequency range (Hz)	Refer to the Rating information at the beginning of this Test Report.	Pass
	Rated current (mA or A).....	Refer to the Rating information at the beginning of this Test Report.	Pass
	Manufacturer's name or trademark or identification mark	GlobTek, INC. E170507	Pass
	Type/model or type reference.....	Refer to the Model information at the beginning of this Test Report.	Pass
	Symbol for Class II equipment only	60417-1-IEC-5172 symbol marked.	Pass
	Other symbols.....	Additional markings are used and are defined in the installation instructions.	Pass
	Certification marks	UL, C-UL	Pass
1.7.2	Safety instructions	Safety instructions in English. Other languages will be provided when submitted for national approval.	Pass
1.7.3	Short duty cycles	The equipment is intended for continuous operation.	N/A
1.7.4	Supply voltage adjustment.....	Equipment is auto-ranging.	N/A
1.7.5	Power outlets on the equipment	No standard power outlets are provided.	N/A
1.7.6	Fuse identification.....	Fuse marking provided as follow : F1 T2A/250 V	Pass
1.7.7	Wiring terminals		N/A
1.7.7.1	Protective earthing and bonding terminals	Class II equipment	N/A
1.7.7.2	Terminal for a.c. mains supply conductors		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
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 :	No indicator, control affecting safety provided.	N/A
1.7.8.2	Colours..... :		N/A
1.7.8.3	Symbols according to IEC 60417 :	There is no switch in the equipment.	N/A
1.7.8.4	Markings using figures..... :	Figures are not used for indicating different positions of controls.	N/A
1.7.9	Isolation of multiple power sources :	There is only one connection to hazardous voltage.	N/A
1.7.10	IT power distribution systems	Not intended for use on IT power systems.	N/A
1.7.11	Thermostats and other regulating devices	No thermostats or similar regulating devices.	N/A
1.7.12	Language..... :	Reviewed only English markings/instructions. May be provided in other languages when the equipment will be applied for other national certificated.	-
1.7.13	Durability	All markings provided on UL Recognized Component labels suitable for surface they are applied upon and meet the durability test.	Pass
1.7.14	Removable parts	No marking is located on a removable part.	N/A
1.7.15	Replaceable batteries	There are no replaceable batteries in the equipment.	N/A
	Language..... :		-
1.7.16	Operator access with a tool :		N/A
1.7.17	Equipment for restricted access locations :	Equipment not intended for installation in a RESTRICTED ACCESS LOCATION.	N/A

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

2	PROTECTION FROM HAZARDS		Pass
2.1	Protection from electric shock and energy hazards		Pass
2.1.1	Protection in operator access areas		Pass
2.1.1.1	Access to energized parts	See below.	Pass
	Test by inspection..... :	Operator can only contact with SELV circuit.	Pass
	Test with test finger..... :	The test finger was unable to contact bare hazardous parts, basic insulation, or ELV circuits.	Pass
	Test with test pin..... :	The test pin cannot touch hazardous voltage through and openings or seams of the whole enclosure.	Pass
	Test with test probe :	No TNV present.	N/A
2.1.1.2	Battery compartments..... :	No Battery compartments.	N/A
2.1.1.3	Access to ELV wiring	Internal wiring in an ELV circuit is not user accessible.	N/A
	Working voltage (V); minimum distance (mm) through insulation :	See Appended Table of clearance and creepage distance measurements	-
2.1.1.4	Access to hazardous voltage circuit wiring	Insulation of internal wiring is not operator accessible.	N/A
2.1.1.5	Energy hazards..... :	The output of the power supply is not an energy hazard. For Model GT-41081-1805: - Maximum 20.06 VA measured. For Model GT-41081-1806: - Maximum 26.72 VA measured. For Model GT-41081-1809: - Maximum 29.99 VA measured.	Pass
2.1.1.6	Manual controls	No knobs, handles, levers, or the like are employed in power supplies.	N/A
2.1.1.7	Discharge of capacitors in equipment	The capacitance between line to ground and neutral to	Pass

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Clause	Requirement + Test	Result - Remark	Verdict

		<p>ground of the input circuit is < 0.1 uF, the measurement is required by client.</p> <p>The voltage across-line capacitors did decay to less than 37 percent of its originalvalue in 1.0 second.</p>	
	Time-constant (s); measured voltage (V) :	<p>For model GT-41081-1806: Max. Time constant measured under normal operating is: Vo=382Vpk, 37%Vpk=141.34. Vtc=14Vpk after 1second.</p> <p>CX1=0.15uF; Resistance R3=R5=2.2M ohm, 1/4W.</p>	-
2.1.2	Protection in service access areas	No bare parts operating at HAZARDOUS VOLTAGES is in service access area.	Pass
2.1.3	Protection in restricted access locations	The unit is not intended to be used in restricted locations.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict

2.2	SELV circuits		Pass
2.2.1	General requirements	SELV levels are maintained after single fault condition.	Pass
2.2.2	Voltages under normal conditions (V) :	All accessible voltages are less than 42.4 Vp or 60 V dc and are classified as SELV.	Pass
2.2.3	Voltages under fault conditions (V)..... :	Under fault conditions voltages never exceed 71V peak and 120Vdc and do not exceed 42.4V peak or 60V dc for more than 0.2 sec.	Pass
2.2.3.1	Separation by double insulation or reinforced insulation (method 1)	Hazardous voltage wiring which may contact SELV parts provided with double or reinforced insulation.	Pass
2.2.3.2	Separation by earthed screen (method 2)		N/A
2.2.3.3	Protection by earthing of the SELV circuit (method 3)		N/A
2.2.4	Connection of SELV circuits to other circuits..... :	SELV circuits are only connected to other SELV circuits. SELV circuit and all interconnected circuits separated from primary by double insulation. The SELV circuit does not exceed the SELV limits under normal and fault conditions.	Pass

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Clause	Requirement + Test	Result - Remark	Verdict

2.3	TNV circuits		N/A
2.3.1	Limits	No TNV circuit	N/A
	Type of TNV circuits		-
2.3.2	Separation from other circuits and from accessible parts		N/A
	Insulation employed.....		-
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		Pass
2.4.1	General requirements		Pass
2.4.2	Limit values	0.7 mA peak	Pass
	Frequency (Hz)	60 Hz	-
	Measured current (mA)	0.04 mA for bridging capacitor	-
	Measured voltage (V)	NA	-
	Measured capacitance (mF)	NA	-
2.4.3	Connection of limited current circuits to other circuits		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

2.5	Limited power sources		Pass
	Inherently limited output		N/A
	Impedance limited output		N/A
	Overcurrent protective device limited output		N/A
	Regulating network limited output under normal operating and single fault condition	- The output is limited to the values of table 2B in normal operation conditions and in the case of a single fault.	Pass
	Regulating network limited output under normal operating conditions and overcurrent protective device limited output under single fault condition		N/A
	Output voltage (V), output current (A), apparent power (VA):	<p>Comply with table 2B.</p> <p>For Model GT-41081-1805: Max. Uoc = 5.18 Vdc (Normal); Max. Isc = 4.39 A (Normal); Max. VA = 20.06 VA (Normal).</p> <p>For Model GT-41081-1806: Max. Uoc = 6.10 Vdc (Normal); Max. Isc = 4.73 A (Normal); Max. VA = 26.72 VA (Normal).</p> <p>For Model GT-41081-1809: Max. Uoc = 9.18 Vdc (Normal); Max. Isc = 3.44 A (Normal); Max. VA = 29.99 VA (Normal).</p> <p>For single fault conditions , the current and voltage measured was zero.</p>	-
	Current rating of overcurrent protective device (A) :		-

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2.6	Provisions for earthing and bonding		N/A
2.6.1	Protective earthing	Class II equipment.	N/A
2.6.2	Functional earthing	Class II equipment.	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 (mm ²), AWG		-
2.6.3.3	Size of protective bonding conductors		N/A
	Rated current (A), cross-sectional area (mm ²), AWG		-
2.6.3.4	Resistance (Ohm) of earthing conductors and their terminations, test current (A)		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
	Rated current (A), type and nominal thread diameter (mm)		-
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors		N/A
2.6.5	Integrity of protective earthing		N/A
2.6.5.1	Interconnection of equipment		N/A
2.6.5.2	Components in protective earthing conductors and protective bonding conductors		N/A
2.6.5.3	Disconnection of protective earth		N/A
2.6.5.4	Parts that can be removed by an operator		N/A
2.6.5.5	Parts removed during servicing		N/A
2.6.5.6	Corrosion resistance		N/A
2.6.5.7	Screws for protective bonding		N/A
2.6.5.8	Reliance on telecommunication network or cable distribution system		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

2.7	Overcurrent and earth fault protection in primary circuits		Pass
2.7.1	Basic requirements	Protection provided as part of the building installation.	Pass
	Instructions when protection relies on building installation	Pluggable Type A.	N/A
2.7.2	Faults not covered in 5.3	Adequate fault protection provided.	Pass
2.7.3	Short-circuit backup protection	The building installation is considered as providing short-circuit backup protection.	Pass
2.7.4	Number and location of protective devices..... :	One protective device in the "LIVE" phase	Pass
2.7.5	Protection by several devices	Only one protective device is provided.	N/A
2.7.6	Warning to service personnel :	No protective device is provided in the neutral conductor.	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

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Clause	Requirement + Test	Result - Remark	Verdict

2.9	Electrical insulation		Pass
2.9.1	Properties of insulating materials	- Electric strength test conducted after the humidity treatment.	Pass
2.9.2	Humidity conditioning	- Humidity treatment performed to 48 hrs.	Pass
	Humidity (%)	95%	-
	Temperature (°C).....	30 degree C	-
2.9.3	Grade of insulation	The adequate level of safety insulation is provided and maintained to comply with the requirements of this standard.	Pass

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Clause	Requirement + Test	Result - Remark	Verdict

2.10	Clearances, creepage distances and distances through insulation		Pass
2.10.1	General	Pollution degree 2 applicable.	Pass
2.10.2	Determination of working voltage	(see appended table 2.10.3 and 2.10.4)	Pass
2.10.3	Clearances	(- see appended table 2.10.3 and 2.10.4).	Pass
2.10.3.1	General	When measuring CLEARANCES, 4.2.2, 4.2.3 and 4.2.4 apply.	Pass
2.10.3.2	Clearances in primary circuit	(see appended table 2.10.3 and 2.10.4)	Pass
2.10.3.3	Clearances in secondary circuits	Functional insulation only. Waived by short circuit fault test per Sub-clause 5.3.4 . See appended table 5.3.	N/A
2.10.3.4	Measurement of transient voltage levels	Considered.	Pass
2.10.4	Creepage distances	(see appended table 2.10.3 and 2.10.4)	Pass
	CTI tests..... :	Material group IIIb: 100<=CTI<175	-
2.10.5	Solid insulation	Solid or laminated insulating materials having adequate thickness are provided.	Pass
2.10.5.1	Minimum distance through insulation	(see appended table 2.10.5)	Pass
2.10.5.2	Thin sheet material	Thin sheet material is not used for supplementary or reinforced insulation.	N/A
	Number of layers (pcs)		-
	Electric strength test		-
2.10.5.3	Printed boards	PWB is not used as reinforced or supplementary insulation.	N/A
	Distance through insulation		N/A
	Electric strength test for thin sheet insulating material		-
	Number of layers (pcs)		N/A
2.10.5.4	Wound components		Pass
	Number of layers (pcs)	Three wrapped layers.	Pass
	Two wires in contact inside wound component;	Physical separation in the form	Pass

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	angle between 45° and 90°	of insulating sheet material to relieve mechanical stress at the crossover point.	
2.10.6	Coated printed boards	No coated printed wiring boards.	N/A
2.10.6.1	General		N/A
2.10.6.2	Sample preparation and preliminary inspection		N/A
2.10.6.3	Thermal cycling		N/A
2.10.6.4	Thermal ageing (°C)		N/A
2.10.6.5	Electric strength test		-
2.10.6.6	Abrasion resistance test		N/A
	Electric strength test		-
2.10.7	Enclosed and sealed parts	No hermetically sealed or enclosed components used except for optical isolator. (see appended table 1.5.1.)	N/A
	Temperature T1=T2 = Tma - Tamb +10K (°C).....		N/A
2.10.8	Spacings filled by insulating compound.....	Optical isolator is approved component.	Pass
	Electric strength test	(see appended table 5.2)	-
2.10.9	Component external terminations		N/A
2.10.10	Insulation with varying dimensions		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

3	WIRING, CONNECTIONS AND SUPPLY		Pass
3.1	General		Pass
3.1.1	Current rating and overcurrent protection	All internal wiring used in the distribution of primary power protected against over current and short circuit by suitably rated protective devices.	Pass
3.1.2	Protection against mechanical damage	The wires are routed away from sharp edges and parts which could damage insulation.	Pass
3.1.3	Securing of internal wiring	The wires are positioned in such a manner that prevents excessive strain, loosening of terminal connections and damage of conductor insulation.	Pass
3.1.4	Insulation of conductors	Insulation on internal conductors is considered to be of adequate quality and suitable for the application and the working voltages involved.	Pass
3.1.5	Beads and ceramic insulators	The equipment does not have any beads or similar insulators	N/A
3.1.6	Screws for electrical contact pressure	The equipment does not have any screw-type connections.	N/A
3.1.7	Insulating materials in electrical connections	No contact pressure through insulating material.	N/A
3.1.8	Self-tapping and spaced thread screws	Thread-cutting or space thread screws are not used for electrical connections.	N/A
3.1.9	Termination of conductors		Pass
	10 N pull test		Pass
3.1.10	Sleeving on wiring	Not provided.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict

3.2	Connection to an a.c. mains supply or a d.c. mains supply		Pass
3.2.1	Means of connection	The unit is provided with a means for direct plug-in.	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	Single mains supply.	N/A
3.2.3	Permanently connected equipment	The equipment is not permanently connected.	N/A
	Number of conductors, diameter (mm) of cable and conduits..... :		-
3.2.4	Appliance inlets	The equipment does not use an appliance inlet.	N/A
3.2.5	Power supply cords		N/A
3.2.5.1	AC power supply cords		N/A
	Type..... :		-
	Rated current (A), cross-sectional area (mm ²), AWG..... :		-
3.2.5.2	DC power supply cords		N/A
3.2.6	Cord anchorages and strain relief		N/A
	Mass of equipment (kg), pull (N)..... :		-
	Longitudinal displacement (mm)..... :		-
3.2.7	Protection against mechanical damage	Cord not exposed to sharp points or edges.	Pass
3.2.8	Cord guards		N/A
	D (mm); test mass (g)..... :		-
	Radius of curvature of cord (mm)..... :		-
3.2.9	Supply wiring space		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

3.3	Wiring terminals for connection of external conductors		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 ²)		-
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

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Clause	Requirement + Test	Result - Remark	Verdict

3.4	Disconnection from the mains supply		Pass
3.4.1	General requirement		Pass
3.4.2	Disconnect devices	The plug is used as the disconnect device and information is provided in the manual.	Pass
3.4.3	Permanently connected equipment	Unit is not intended to be permanently connected.	N/A
3.4.4	Parts which remain energized	No parts remain energized when the disconnect device is removed.	N/A
3.4.5	Switches in flexible cords		N/A
3.4.6	Single-phase equipment and d.c. equipment	Disconnect device disconnects both poles simultaneously.	Pass
3.4.7	Three-phase equipment	The equipment is single-phased.	N/A
3.4.8	Switches as disconnect devices	No such switch provided.	N/A
3.4.9	Plugs as disconnect devices	The required warning is provided in accordance with 1.7.2.	Pass
3.4.10	Interconnected equipment	No interconnection of hazardous voltages or energy levels.	N/A
3.4.11	Multiple power sources	The equipment only receives power from one source.	N/A

3.5	Interconnection of equipment		Pass
3.5.1	General requirements	This equipment is not considered for connection to TNV. Ref. to 2.2 for other details.	Pass
3.5.2	Types of interconnection circuits	Interconnection circuits are SELV CIRCUITS.	Pass
3.5.3	ELV circuits as interconnection circuits	No ELV interconnections.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict

4	PHYSICAL REQUIREMENTS		Pass
4.1	Stability		N/A
	Angle of 10°	The test was deemed not necessary.	N/A
	Test: force (N) :		N/A

4.2	Mechanical strength		Pass
4.2.1	General	See below.	Pass
4.2.2	Steady force test, 10 N	10 N were applied to components. No energy or other hazards.	Pass
4.2.3	Steady force test, 30 N	The equipment does not have any internal enclosures.	N/A
4.2.4	Steady force test, 250 N	250 N were applied to the outer enclosure. No energy or other hazards.	Pass
4.2.5	Impact test	No hazards as a result of impact test.	Pass
	Fall test		Pass
	Swing test		N/A
4.2.6	Drop test	No hazards as a result of the drop test.	Pass
4.2.7	Stress relief test	No indication of shrinkage or distortion on enclosures due to the stress relief test 104.1oC/7 h. See enclosed test record.	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

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Clause	Requirement + Test	Result - Remark	Verdict

4.3	Design and construction		Pass
4.3.1	Edges and corners	All edges and corners judged to be sufficiently well rounded so as not to constitute a hazard.	Pass
4.3.2	Handles and manual controls; force (N) :		N/A
4.3.3	Adjustable controls	The equipment is auto-ranging.	N/A
4.3.4	Securing of parts	Electrical and mechanical connections can be expected to withstand usual mechanical stress. For the protection, solder pins, cable ties and heatshrunk tubing are used.	Pass
4.3.5	Connection of plugs and sockets	The equipment does not have any interchangeable plugs/sockets.	N/A
4.3.6	Direct plug-in equipment	The prevention of imposing to undue strain on the socket outlet was done by the construction of the adaptor.	Pass
	Dimensions (mm) of mains plug for direct plug-in . :	The blade configuration is in accordance with the national applicable standards.	Pass
	Torque and pull test of mains plug for direct plug-in; torque (Nm); pull (N) :	Refer to 4.3.6	Pass
4.3.7	Heating elements in earthed equipment	The equipment does not contain heating elements.	N/A
4.3.8	Batteries	No Battery provided.	N/A
4.3.9	Oil and grease	The insulation of the internal wiring is not exposed to oil, grease, etc.	N/A
4.3.10	Dust, powders, liquids and gases	The equipment does not produce or employ powders, liquids, or gases.	N/A
4.3.11	Containers for liquids or gases	The equipment does not contain liquid.	N/A
4.3.12	Flammable liquids..... :	The equipment does not use any flammable liquids.	N/A
	Quantity of liquid (l)..... :		N/A
	Flash point (°C)..... :		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

4.3.13	Radiation; type of radiation	Ionizing radiation or laser or in which similar hazards are not presents.	N/A
4.3.13.1	General		N/A
4.3.13.2	Ionizing radiation		N/A
	Measured radiation (pA/kg)		-
	Measured high-voltage (kV).....		-
	Measured focus voltage (kV)		-
	CRT markings		-
4.3.13.3	Effect of ultraviolet (UV) radiation on materials		N/A
	Part, property, retention after test, flammability classification		N/A
4.3.13.4	Human exposure to ultraviolet (UV) radiation.....		N/A
4.3.13.5	Laser (including LEDs)		N/A
	Laser class.....		-
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

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Clause	Requirement + Test	Result - Remark	Verdict

4.5	Thermal requirements		Pass
4.5.1	Maximum temperatures	(See appended table 4.5) The equipment and its component parts did not attain excessive temperatures during normal operation.	Pass
	Normal load condition per Annex L :	Operated in the most unfavorable way of operation given in the operating instructions until steady conditions established.	Pass
4.5.2	Resistance to abnormal heat	It has been determined from examination of the physical characteristics of the materials used that the material meets the requirements of the test. (See appended table 4.5.2)	Pass

4.6	Openings in enclosures		Pass
4.6.1	Top and side openings	No opening provided.	N/A
	Dimensions (mm)..... :		-
4.6.2	Bottoms of fire enclosures		N/A
	Construction of the bottom..... :		-
4.6.3	Doors or covers in fire enclosures	The equipment does not have any doors or covers.	N/A
4.6.4	Openings in transportable equipment	No openings provided.	Pass
4.6.5	Adhesives for constructional purposes	Adhesives are not used to secure internal barriers or screens.	N/A
	Conditioning temperature (°C)/time (weeks) :		-

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Clause	Requirement + Test	Result - Remark	Verdict

4.7	Resistance to fire		Pass
4.7.1	Reducing the risk of ignition and spread of flame	Method 1: Selection and application of components and materials which minimize the possibility 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		N/A
4.7.2	Conditions for a fire enclosure	With having the following components: AC-DC - components with windings - wiring - semiconductor devices, transistors, diodes, integrated circuits - resistors, capacitors, inductors. The fire enclosure is required.	Pass
4.7.2.1	Parts requiring a fire enclosure	A fire enclosure covers all parts.	Pass
4.7.2.2	Parts not requiring a fire enclosure	A fire enclosure covers all parts.	N/A
4.7.3	Materials		Pass
4.7.3.1	General	See below.	Pass
4.7.3.2	Materials for fire enclosures	Equipment is direct plug-in with mass less than 18 kg. Fire enclosure material is V-1 minimum.	Pass
4.7.3.3	Materials for components and other parts outside fire enclosures	Fire enclosure covers all parts.	N/A
4.7.3.4	Materials for components and other parts inside fire enclosures	All internal materials are rated V-2 or better or are mounted on a PWB rated V-1 or better. See Table 1.5.1 for material information.	Pass
4.7.3.5	Materials for air filter assemblies	No air filter assemblies.	N/A
4.7.3.6	Materials used in high-voltage components	No high-voltage components.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict

5	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS		Pass
5.1	Touch current and protective conductor current		Pass
5.1.1	General	See below.	Pass
5.1.2	Equipment under test (EUT)	Equipment designed for connection to only one power source.	Pass
5.1.3	Test circuit	Single phase equipment intended only for connection to star TN system.	Pass
5.1.4	Application of measuring instrument	Test made to 10 x 20 cm metal foil in contact with accessible non-conductive part. Tested using D.1 measuring instrument.	Pass
5.1.5	Test procedure		Pass
5.1.6	Test measurements		Pass
	Test voltage (V)	264 V ac	-
	Measured touch current (mA)	For Model GT-41081-1805: Max. 0.124 mA For Model GT-41081-1806: Max. 0.122 mA For Model GT-41081-1809: Max. 0.124 mA	-
	Max. allowed touch current (mA)	0.25 mA	-
	Measured protective conductor current (mA)		-
	Max. allowed protective conductor current (mA) ...		-
5.1.7	Equipment with touch current exceeding 3.5 mA ..	Touch current is < 0.25 mA.	N/A
5.1.8	Touch currents to and from telecommunication networks and cable distribution systems and from telecommunication networks	No TNV circuit.	N/A
5.1.8.1	Limitation of the touch current to a telecommunication network and a cable distribution system		N/A
	Test voltage (V)		-
	Measured touch current (mA)		-
	Max. allowed touch current (mA)		-

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Clause	Requirement + Test	Result - Remark	Verdict

5.1.8.2	Summation of touch currents from telecommunication networks :		N/A
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5.2	Electric strength		Pass
5.2.1	General	Based on the electric strength test the use of the insulating materials within the equipment is satisfactory. (see appended table 5.2)	Pass
5.2.2	Test procedure	No insulation breakdown detected during the test. (see appended table 5.2)	Pass

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Clause	Requirement + Test	Result - Remark	Verdict

5.3	Abnormal operating and fault conditions		Pass
5.3.1	Protection against overload and abnormal operation	(see appended table 5.3)	Pass
5.3.2	Motors	No motors.	N/A
5.3.3	Transformers	Transformers are constructed in accordance with the applicable Clause and Annex C.	Pass
5.3.4	Functional insulation	Functional insulation between secondary voltages exceeding SELV and accessible SELV on signal connector complies with method a), b), or c), see Cl. 2.3.9, 5.3 and 5.4.6.	Pass
5.3.5	Electromechanical components	The equipment does not have any electromechanical components in the secondary.	N/A
5.3.6	Simulation of faults	See appended table 5.3.	Pass
5.3.7	Unattended equipment	The equipment does not have any thermostats, temperature limiters, or thermal cut-outs.	N/A
5.3.8	Compliance criteria for abnormal operating and fault conditions	No fire, emission of molten metal or deformation was noted during the tests. Electric Strength tests performed after abnormal and fault tests.	Pass

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

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6.2	Protection of equipment users from overvoltages on telecommunication networks		N/A
6.2.1	Separation requirements		N/A
6.2.2	Electric strength test procedure		N/A
6.2.2.1	Impulse test		N/A
6.2.2.2	Steady-state test		N/A
6.2.2.3	Compliance criteria		N/A

6.3	Protection of the telecommunication wiring system from overheating		N/A
	Max. output current (A)		-
	Current limiting method.....		-

7	CONNECTION TO CABLE DISTRIBUTION SYSTEMS		N/A
7.1	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment		N/A
7.2	Protection of equipment users from overvoltages on the cable distribution system		N/A
7.3	Insulation between primary circuits and cable distribution systems		N/A
7.3.1	General		N/A
7.3.2	Voltage surge test		N/A
7.3.3	Impulse test		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

A	Annex A, TESTS FOR RESISTANCE TO HEAT AND FIRE		N/A
A.1	Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)		N/A
A.1.1	Samples		-
	Wall thickness (mm)		-
A.1.2	Conditioning of samples; temperature (°C)		N/A
A.1.3	Mounting of samples.....		N/A
A.1.4	Test flame		N/A
A.1.5	Test procedure		N/A
A.1.6	Compliance criteria		N/A
	Sample 1 burning time (s).....		-
	Sample 2 burning time (s).....		-
	Sample 3 burning time (s).....		-

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Clause	Requirement + Test	Result - Remark	Verdict

A.2	Flammability test for fire enclosures of movable equipment having a total mass not exceeding 18 kg, and for material and components located inside fire enclosures (see 4.7.3.2 and 4.7.3.4)		N/A
A.2.1	Samples, material		-
	Wall thickness (mm)		-
A.2.2	Conditioning of samples		N/A
A.2.3	Mounting of samples		N/A
A.2.4	Test flame		N/A
A.2.5	Test procedure		N/A
A.2.6	Compliance criteria		N/A
	Sample 1 burning time (s).....		-
	Sample 2 burning time (s).....		-
	Sample 3 burning time (s).....		-
A.2.7	Alternative test acc. to IEC 60695-2-2, cl. 4, 8		N/A
	Sample 1 burning time (s).....		-
	Sample 2 burning time (s).....		-
	Sample 3 burning time (s).....		-

A.3	Hot flaming oil test (see 4.6.2)		N/A
A.3.1	Mounting of samples		N/A
A.3.2	Test procedure		N/A
A.3.3	Compliance criterion		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

B	Annex B, MOTOR TESTS UNDER ABNORMAL CONDITIONS(see 4.7.2.2 and 5.3.2)		N/A
B.1	General requirements		N/A
	Position		-
	Manufacturer.....		-
	Type		-
	Rated values		-
B.2	Test conditions		N/A
B.3	Maximum temperatures		N/A
B.4	Running overload test		N/A
B.5	Locked-rotor overload test		N/A
	Test duration (days).....		-
	Electric strength test: test voltage (V).....		-
B.6	Running overload test for d.c. motors in secondary circuits		N/A
B.7	Locked-rotor overload test for d.c. motors in secondary circuits		N/A
B.7.1	Test procedure		N/A
B.7.2	Alternative test procedure; test time (h).....		N/A
B.7.3	Electric strength test		N/A
B.8	Test for motors with capacitors		N/A
B.9	Test for three-phase motors		N/A
B.10	Test for series motors		N/A
	Operating voltage (V).....		-

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Clause	Requirement + Test	Result - Remark	Verdict

C	Annex C, TRANSFORMERS (see 1.5.4 and 5.3.3)		Pass
	Position	Transformer T1	-
	Manufacturer.....	(see appended table 1.5.1)	-
	Type	(see appended table 1.5.1)	-
	Rated values	(see appended table 1.5.1)	-
	Method of protection	Protective by inherent or external impedance.	-
C.1	Overload test	(see appended table 5.3)	Pass
C.2	Insulation	(see appended table 5.2)	Pass
	Protection from displacement of windings.....	Triple insulated wire used.	Pass

D	Annex D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS		Pass
D.1	Measuring instrument		Pass
D.2	Alternative measuring instrument		N/A

E	Annex E, TEMPERATURE RISE OF A WINDING		N/A
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F	Annex F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10)		Pass
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Clause	Requirement + Test	Result - Remark	Verdict

G	Annex G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES		N/A
G.1	Summary of the procedure for determining minimum clearances		N/A
G.2	Determination of mains transient voltage (V)		N/A
G.2.1	AC mains supply		N/A
G.2.2	DC mains supply		N/A
G.3	Determination of telecommunication network transient voltage (V) :..... :		N/A
G.4	Determination of required withstand voltage (V) ... :		N/A
G.5	Measurement of transient levels (V)..... :		N/A
G.6	Determination of minimum clearances :		N/A

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)		N/A
	Metal used :		-

K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.7)		N/A
K.1	Making and breaking capacity		N/A
K.2	Thermostat reliability; operating voltage (V) :		N/A
K.3	Thermostat endurance test; operating voltage (V) :		N/A
K.4	Temperature limiter endurance; operating voltage (V) :		N/A
K.5	Thermal cut-out reliability		N/A
K.6	Stability of operation		N/A

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L	Annex L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.1)		Pass
L.1	Typewriters		N/A
L.2	Adding machines and cash registers		N/A
L.3	Erasers		N/A
L.4	Pencil sharpeners		N/A
L.5	Duplicators and copy machines		N/A
L.6	Motor-operated files		N/A
L.7	Other business equipment		Pass

M	Annex M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)		N/A
M.1	Introduction		N/A
M.2	Method A		N/A
M.3	Method B		N/A
M.3.1	Ringling signal		N/A
M.3.1.1	Frequency (Hz)		-
M.3.1.2	Voltage (V)		-
M.3.1.3	Cadence; time (s), voltage (V)		-
M.3.1.4	Single fault current (mA)		-
M.3.2	Tripping device and monitoring voltage		N/A
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage		N/A
M.3.2.2	Tripping device		N/A
M.3.2.3	Monitoring voltage (V)		N/A

N	Annex N, IMPULSE TEST GENERATORS (see 2.10.3.4, 6.2.2.1, 7.3.2 and clause G.5)		N/A
N.1	ITU-T impulse test generators		N/A
N.2	IEC 60065 impulse test generator		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

P	Annex P, NORMATIVE REFERENCES		Pass
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Q	Annex Q, BIBLIOGRAPHY		Pass
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R	Annex R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES		N/A
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6)		N/A
R.2	Reduced clearances (see 2.10.3)		N/A

S	Annex S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)		N/A
S.1	Test equipment		N/A
S.2	Test procedure		N/A
S.3	Examples of waveforms during impulse testing		N/A

T	Annex T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)		N/A
 :		-

U	Annex U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)		Pass
 :	Triple insulation wire provide as Transformer secondary winding.	-

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1.5.1	TABLE: list of critical components					Pass
Object/part No.	Manufacturer/ trademark	type/model	technical data	Product Category CCN(s)	Required Marks of Conformity	Supplement ID
01. Input Blades	--	--	Replaceable. Non-polarized, solid copper alloy (NEMA 1-15 configuration), integrally molded on plug holder. From any point of either blade to the plug face section of the edge of enclosure is spaced minimum 5.1 mm perimeter. See Enclosure 4-05 for detail.	--	--	4-05
02. Enclosure	SABIC INNOVATIVE Plastics China Ltd.	SE1X	Two pieces construction, rated V-1 or better, minimum 2.01 mm rated 105 degree C, Secured together by ultrasonic welding. Overall see enclosure 4-15 for detail.	QMFZ2	UL	4-15
03. Plug Holder	SABIC INNOVATIVE Plastics China Ltd.	SE1X	Rated minimum V-1, minimum 2.01 mm thick, 105 degree C, Secured on enclosure by mold fit. Overall see enclosure 4-17 for detail.	QMFZ2	UL	4-17
04. P.W.B	Various	Various	V-1 or better, minimum 130 degree C	ZPMV2	UL	
05. Label	Various	Various	Minimum 60 degree C.	PGDQ2, PGJI2	UL	
06. Fuse (F1)	Conquer Electronics Co Ltd	MST	T2A/250Vac	JDYX2	UL	
06a. Fuse (F1) (Alternate)	Ever Island Electric Co Ltd & Walter Electric	2010	T2A/250Vac	JDYX2	UL	
06b. Fuse (F1)	COOPER	SS-5	T2A/250Vac	JDYX2	UL	

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(Alternate)	BUSSMANN INC					
06c. Fuse (F1) (Alternate)	BEL Fuse LTD.	RST	T2A/250Vac	JDYX2	UL	
06d. Fuse (F1) (Alternate)	Various	Various	T2A/250Vac	JDYX2	UL	
07. Bleeder Resistor (R3, R5)	--	--	Rated maximum 2.2M ohm, 1/4W, SMD type.	--	--	
08. Y-capacitor (CY1) (optional)	TDK Corp	CD	Max. 1500pF, min. 250 Vac, 125 degree C, Y1 type	FOWX2	UL	
08a. Y-capacitor (CY1) (optional) (Alternate)	SUCCESS ELECTRONICS CO LTD	SB, SE	Max. 1500pF, min. 250 Vac, 125 degree C, Y1 type	FOWX2	UL	
08b. Y-capacitor (CY1) (optional) (Alternate)	WALSIN TECHNOLOGY CORP	AH	Max. 1500pF, min. 250 Vac, 125 degree C, Y1 type	FOWX2	UL	
08c. Y-capacitor (CY1) (optional) (Alternate)	WELSON INDUSTRIAL CO LTD	WD	Max. 1500pF, min. 250 Vac, 125 degree C, Y1 type	FOWX2	UL	
08d. Y-capacitor (CY1) (optional) (Alternate)	MURATA MFG CO LTD	KX	Max. 1500pF, min. 250 Vac, 125 degree C, Y1 type	FOWX2	UL	
08e. Y-capacitor (CY1) (optional) (Alternate)	JYA-NAY CO LTD	JN	Max. 1500pF, min. 250 Vac, 125 degree C, Y1 type	FOWX2	UL	
09. X-capacitor (CX1)	CHENG TUNG CO., LTD.	CTX	Max. 0.15 uF, min. 275 Vac, 100 degree C, X1 or X2 type	FOWX2	UL	
09a. X-capacitor (CX1) (optional) (Alternate)	ULTRA TECH XIPHI ENTERPRISE CO LTD.	HQX	Max. 0.15 uF, min. 275 Vac, 100 degree C, X2 type	FOWX2	UL	
09b. X-capacitor (CX1) (optional) (Alternate)	TENTA ELECTRIC INDUSTRIAL CO LTD	MEX	Max. 0.15 uF, min. 275 Vac, 100 degree C, X2 type	FOWX2	UL	
09c. X-capacitor (CX1) (optional) (Alternate)	OKAYA ELECTRIC INDUSTRIES CO LTD	RE+	Max. 0.15 uF, min. 275 Vac, 100 degree C, X2 type	FOWX2	UL	
09d. X-capacitor (CX1)	DAIN	MPX, NPX	Max. 0.15 uF, min. 275 Vac,	FOWX2	UL	

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(optional) (Alternate)	ELECTRONICS CO LTD		100 degree C, X2 type			
09e. X-capacitor (CX1) (optional) (Alternate)	SHENZHEN JINGHAO CAPACITOR CO LTD	CBB62B	Max. 0.15 uF, min. 275 Vac, 100 degree C, X2 type	FOWX2	UL	
09f. X-capacitor (CX1) (optional) (Alternate)	SHUN DE DAHUA ELECTRIC CO LTD	HD+	Max. 0.15 uF, min. 275 Vac, 100 degree C, X2 type	FOWX2	UL	
09g. X-capacitor (CX1) (optional) (Alternate)	WELSON INDUSTRIAL CO LTD	WD	Max. 0.15 uF, min. 275 Vac, 100 degree C, X1 type	FOWX2	UL	
09h. X-capacitor (CX1) (optional) (Alternate)	MURATA MFG CO LTD	KH	Max. 0.15 uF, min. 275 Vac, 100 degree C, X1 type	FOWX2	UL	
09i. X-capacitor (CX1) (optional) (Alternate)	WALSIN TECHNOLOGY CORP	AC	Max. 0.15 uF, min. 275 Vac, 100 degree C, X1 type	FOWX2	UL	
09j. X-capacitor (CX1) (optional) (Alternate)	SHANTOU HIGH-NEW TECHNOLOGY DEVELOPMNT ZONE SONGTIAN ENTERPRISE CO LTD	MPX	Max. 0.15 uF, min. 275 Vac, 100 degree C, X2 type	FOWX2	UL	
09k. X-capacitor (CX1) (optional) (Alternate)	YUON YU ELECTRONICS CO LTD	MPX	Max. 0.15 uF, min. 275 Vac, 100 degree C, X2 type	FOWX2	UL	
09l. X-capacitor (CX1) (optional) (Alternate)	Various	Various	Max. 0.15 uF, min. 275 Vac, 100 degree C, X1 type	FOWX2	UL	
10. Varistor (NZR) (Optional)	Various	Various	Rated minimum 300 Vac, 385 Vdc.	XUHT2	UL	
11. Line Choke (NF1) (Optional)	--	--	130 degree C minimum. See Enclosure ID: 4-12 for details,	--	--	4-12
11-1. Core	--	--	See enclosure for details,	--	--	
11-2. Coil	--	--	130 degree C	OBMW2	UL	

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11-3. Tubing/Sleeving	Various	Various	Rated minimum 200 degree C, 600V max.	YDPU2	UL	
11-4. Triple Insulated Wire	Various	Various	Minimum 130 degree C	OBJT2	UL	
11-5. Varnish	John C. Dolph Co.	BC-346A	Rated minimum 200 degree C.	OBOR2	UL	
12. Noise Filter (NF2) (For Models GT-41081-1805 and GT-41081-1505)	--	--	See enclosure 4-13 for details, class 130 degree C minimum.	--	--	4-13
12a. Noise Filter (NF2) (For Models GT-41081-1806, GT-41081-1809, GT-41081-1506, GT-41081-1509) (alternate)	--	--	See enclosure 4-14 for details, class 130 degree C minimum.	--	--	4-14
12-1. Bobbin	Chang Chun Plastics Co., Ltd.	T375J	V-0, 150degree C, Phenolic, thickness 0.8mm minimum	QMFZ2	UL	
12-2. Bobbin (Alternate)	Various	Various	V-0, 150degree C, Phenolic, thickness 0.71mm minimum	QMFZ2	UL	
12-3. Core	--	--	Ferrite, toroidal, See enclosure for details,	--	--	
12-4. Coil	--	--	130 degree C	OBMW2	UL	
12-5. Insulation Tape	3M Company	1350T-1	130 degree C.	OANZ2	UL	
12-6. Insulation Tape (Alternate)	3M Company	1350F(#)	130 degree C.	OANZ2	UL	
12-7. Varnish	John C. Dolph Co.	BC-346A	Rated minimum 200 degree C.	OBOR2	UL	
12-7a.. Varnish (Alternate)	Various	Various	Rated minimum 130 degree C.	OBOR2	UL	
13. Bridge Diodes (D3, D5, D6, D7)	--	--	Rated 1A, 600 V minimum	--	--	
14. Storage Capacitor (C1)	--	--	Rated 400 V, max 33uF, min 105 degree C, provided with integral pressure relief	--	--	
15. Optical Isolator (U2)	Sharp Corp.,	PC 817, PC817U,	Double protection. Isolation	FPQU2	UL	

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	Electronic Components Group	PC 123, PC1231	voltage minimum 3000 Vac, minimum 100 degree C.	VDE		
15a. Optical Isolator (U2) (alternate)	Everlight Electronics Co., Ltd.	EL817	Double protection. Isolation voltage minimum 5000 Vac, minimum 100 degree C.	FPQU2 VDE	UL	
15b. Optical Isolator (U2) (alternate)	Lite-On Technology Corp.	LTV-817	Double protection. Isolation voltage minimum 3000 Vac, minimum 100 degree C.	FPQU2 VDE	UL	
15c. Optical Isolator (U2) (alternate)	Toshiba Corp., Semiconductor Co, Discrete Semiconductor Div.	TLP721	Double protection. Isolation voltage minimum 3000 Vac, minimum 100 degree C.	FPQU2 VDE	UL	
16. Semiconductor (U1)	--	--	Min. 650V, 0.7A	--	--	
17. Transformer (T1) (For GT-41081-1805 and GT-41081-1505)	--	--	See enclosure 4-01 for details.	--	--	4-01
17a. Transformer (T1) (For GT-41081-1806 and GT-41081-1506)	--	--	See enclosure 4-02 for details.	--	--	4-02
17b. Transformer (T1) (For GT-41081-1809 and GT-41081-1509)	--	--	See enclosure 4-03 for details.	--	--	4-03
17-1. Insulation system for Transformer (T1)		ENG130-1	Insulation system Class B.	OBJY2	UL	
17-2. Core	--	--	EE type, Ferrite, See enclosure for details,	--	--	
17-3. Coil	Various	Various	130 degree C	OBMW2	UL	
17-4. Bobbin	Chang Chun Plastics Co., Ltd.	T375J	V-0, 150degree C, Phenolic, thickness 0.8mm minimum	QMFZ2	UL	
17-4a. Bobbin (Alternate)	Various	Various	V-0, 150degree C, Phenolic, thickness 0.71mm minimum	QMFZ2	UL	
17-5. Tubing/Sleeving	Great Holding Industrial Co. Ltd.	TFL, TFS, TFT	Rated 200 degree C, 600V max.	YDPU2	UL	

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17-6. Triple Insulated Wire (secondary)	Great Leoflon Industrial Co. Ltd.	TRWB	130 degree C	OBJT2	UL	
17-7. Varnish	John C. Dolph Co.	BC-346A	Rated minimum 200 degree C.	OBOR2	UL	
17-7a. Varnish (Alternate)	P D GEORGE/VIKING	V1630FS	Rated minimum 130 degree C.	OBOR2	UL	
17-8. Insulation Tape	3M Company	1350T-1	130 degree C.	OANZ2	UL	
17-8a. Insulation Tape (Alternate)	3M Company	1350F(#)	130 degree C.	OANZ2	UL	
17-8b. Insulation Tape (Alternate)	3M Company	44	130 degree C.	OANZ2	UL	
17-8c. Insulation Tape (Alternate)	Bondtec Pacific Co., Ltd.	370S	130 degree C.	OANZ2	UL	
18. Heat Sink (HS1) (Secondary) (optional)	--	--	Aluminum, see Enclosure ID: 4-06 for dimension detail.	--	--	4-06
19. Heat Sink (HS2) (Secondary) (optional)	--	--	Aluminum, see Enclosure ID: 4-11 for dimension detail.	--	--	4-11
20. Output Cord	Various	Various	FEP, PTFE, PVC, TFE, Neoprene, Polyimide or marked FT-1, VW-1; max.3.05 m length, 60 degree C.	ZJCZ, AVL2	UL	4-16
20-1. Bushing	Various	Various	Minimum V-1.	QMFZ2	UL	
21. Internal Plastic Part Materials	Various	Various	Rated V-2 minimum.	QMFZ2	UL	
22. Internal Wiring (Primary)	Various	Various	FEP, PTFE, PVC, TFE, neoprene, Polyimide or marked VW-1; min. 300 V, min. 80 degree C.	AVLV2	UL	
23. Wiring, internal secondary ELV/SELV circuits	--	--	FEP, PTFE, PVC, TFE, neoprene, polyimide or marked VW-1; min 30 V, 60 degree C, routed away from primary uninsulated live parts, and unless insulated for the highest	AVLV2	UL	

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			voltage involved, from insulated primary circuit wiring.			
24. Transistor (Q1)	--	--	Rated 3.5 A, minimum 600 V.	--	--	
25. Internal Glue Materials	Various	Various	Rated V-2 minimum.	QMFZ2	UL	

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1.6.2	TABLE: electrical data (in normal conditions)						Pass
fuse #	I rated (A)	U (V)	P (W)	I (mA)	I fuse (mA)	condition/status	
--	--	--	--	--	--	GT-41081-1505	
F1	--	90V/50Hz	16.97	309.28	309.28	Max. Normal Load	
F1	--	90V/60Hz	16.92	300.58	300.58	Max. Normal Load	
F1	0.6	100V/50Hz	16.79	280.59	280.59	Max. Normal Load	
F1	0.6	100V/60Hz	16.78	272.28	272.28	Max. Normal Load	
F1	0.6	240V/50Hz	16.58	133.40	133.40	Max. Normal Load	
F1	0.6	240V/60Hz	16.56	126.66	126.66	Max. Normal Load	
F1	--	254V/50Hz	16.59	127.12	127.12	Max. Normal Load	
F1	--	254V/60Hz	16.60	120.86	120.86	Max. Normal Load	
F1	--	264V/50Hz	16.63	123.22	123.22	Max. Normal Load	
F1	--	264V/60Hz	16.62	117.06	117.06	Max. Normal Load	
--	--	--	--	--	--	GT-41081-1506	
F1	--	90V/50Hz	18.53	340.12	340.12	Max. Normal Load	
F1	--	90V/60Hz	18.50	332.22	332.22	Max. Normal Load	
F1	0.6	100V/50Hz	18.37	309.02	309.02	Max. Normal Load	
F1	0.6	100V/60Hz	18.36	300.63	300.63	Max. Normal Load	
F1	0.6	240V/50Hz	18.20	146.28	146.28	Max. Normal Load	
F1	0.6	240V/60Hz	18.19	139.02	139.02	Max. Normal Load	
F1	--	254V/50Hz	18.16	139.17	139.17	Max. Normal Load	
F1	--	254V/60Hz	18.18	132.21	132.21	Max. Normal Load	
F1	--	264V/50Hz	18.16	134.40	134.40	Max. Normal Load	
F1	--	264V/60Hz	18.16	127.69	127.69	Max. Normal Load	
--	--	--	--	--	--	GT-41081-1509	
F1	--	90V/50Hz	18.82	340.26	340.26	Max. Normal Load	
F1	--	90V/60Hz	18.78	334.43	334.43	Max. Normal Load	
F1	0.6	100V/50Hz	18.62	309.13	309.13	Max. Normal Load	
F1	0.6	100V/60Hz	18.61	302.31	302.31	Max. Normal Load	
F1	0.6	240V/50Hz	18.40	147.55	147.55	Max. Normal Load	
F1	0.6	240V/60Hz	18.38	140.38	140.38	Max. Normal Load	
F1	--	254V/50Hz	18.38	140.32	140.32	Max. Normal Load	
F1	--	254V/60Hz	18.39	133.66	133.66	Max. Normal Load	
F1	--	264V/50Hz	18.40	135.82	135.82	Max. Normal Load	
F1	--	264V/60Hz	18.40	129.09	129.09	Max. Normal Load	
--	--	--	--	--	--	GT-41081-1805	
F1	--	90V/50Hz	19.72	356.66	356.66	Max. Normal Load	
F1	--	90V/60Hz	19.67	347.14	347.14	Max. Normal Load	
F1	0.6	100V/50Hz	19.49	322.66	322.66	Max. Normal Load	
F1	0.6	100V/60Hz	19.47	313.43	313.43	Max. Normal Load	
F1	0.6	240V/50Hz	19.23	152.74	152.74	Max. Normal Load	
F1	0.6	240V/60Hz	19.23	145.40	145.40	Max. Normal Load	
F1	--	254V/50Hz	19.22	152.83	152.83	Max. Normal Load	
F1	--	254V/60Hz	19.25	138.92	138.92	Max. Normal Load	
F1	--	264V/50Hz	19.29	141.28	141.28	Max. Normal Load	
F1	--	264V/60Hz	19.30	134.35	134.35	Max. Normal Load	

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--	--	--	--	--	--	GT-41081-1806
F1	--	90V/50Hz	22.68	407.74	407.74	Max. Normal Load
F1	--	90V/60Hz	22.60	398.79	398.79	Max. Normal Load
F1	0.6	100V/50Hz	22.35	367.90	367.90	Max. Normal Load
F1	0.6	100V/60Hz	22.34	359.23	359.23	Max. Normal Load
F1	0.6	240V/50Hz	21.83	173.32	173.32	Max. Normal Load
F1	0.6	240V/60Hz	21.82	164.91	164.91	Max. Normal Load
F1	--	254V/50Hz	21.87	165.18	165.18	Max. Normal Load
F1	--	254V/60Hz	21.88	157.32	157.32	Max. Normal Load
F1	--	264V/50Hz	21.91	159.96	159.96	Max. Normal Load
F1	--	264V/60Hz	21.90	152.14	152.14	Max. Normal Load
--	--	--	--	--	--	GT-41081-1809
F1	--	90V/50Hz	22.21	398.34	398.34	Max. Normal Load
F1	--	90V/60Hz	22.16	392.22	392.22	Max. Normal Load
F1	0.6	100V/50Hz	21.96	360.57	360.57	Max. Normal Load
F1	0.6	100V/60Hz	21.95	354.03	354.03	Max. Normal Load
F1	0.6	240V/50Hz	21.69	172.03	172.03	Max. Normal Load
F1	0.6	240V/60Hz	21.67	163.88	163.88	Max. Normal Load
F1	--	254V/50Hz	21.72	164.04	164.04	Max. Normal Load
F1	--	254V/60Hz	21.73	156.29	156.29	Max. Normal Load
F1	--	264V/50Hz	21.75	158.73	158.73	Max. Normal Load
F1	--	264V/60Hz	21.74	151.14	151.14	Max. Normal Load
supplementary information:						
- Maximum normal load: Outputs were loaded at its rated load and operated continuously. (Refer to Rating information at the beginning of this Test Report for each model's rated load.)						

2.10.3 and 2.10.4	TABLE: clearance and creepage distance measurements						Pass
clearance cl and creepage distance dcr at/of:	Up (V)	U r.m.s. (V)	required cl (mm)	cl (mm)	required dcr (mm)	dcr (mm)	
Transformer T1	--	--	--	--	--	--	
Pin 5 to Pin a	484	270	4.2	8.31	5.56	8.31	
Pin 5 to Pin b	484	270	4.2	8.31	5.56	8.31	
Core (Primary) to Pin a	484	270	4.2	4.60	5.56	6.10	
PWB Trace Side	--	--	--	--	--	--	
CY1 Primary Pin to Secondary Pin	420	250	4.0	7.84	5.0	7.84	
CY1 Secondary Pin to NF2 (Primary, Near NF1)	420	250	4.0	5.65	5.0	7.22	
CY1 Secondary Pin to NF2 (Primary, Near C1)	420	250	4.0	10.03	5.0	10.03	
U2 Pin 1 - 4	420	250	4.0	6.39	5.0	6.39	
U2 Pin 2 (Secondary) to Pin 3 (Primary)	420	250	4.0	6.39	5.0	6.39	

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U2 Pin 2 (Secondary) to C4 (Primary)	420	250	4.0	5.28	5.0	5.28
PWB Tracy Side under T1	--	--	--	--	--	--
R10 (Secondary) to R8 (Primary)	484	270	4.2	5.93	5.56	6.48
C7 (Secondary) to R2 (Primary)	484	270	4.2	5.98	5.56	6.48
T1 Pin b (Secondary) to R1 (Primary)	484	270	4.2	5.33	5.56	6.48
T1 Pin b (Secondary) to R2 (Primary)	484	270	4.2	5.55	5.56	6.48
PWB Component Side	--	--	--	--	--	--
U2 Pin 2 (Secondary) to Pin 3 (Primary)	420	250	4.0	8.40	5.0	8.40
U2 Pin 2 (Secondary) to C4 (Primary)	420	250	4.0	8.40	5.0	8.40
T1 Core (Primary) to C8A (Secondary)	484	270	4.2	6.18	5.56	6.18
T1 Primary Winding to C8A (Secondary)	484	270	4.2	5.31	5.56	10.24
HS2 (Secondary) to NF2 (Primary)	420	250	4.0	7.55	5.0	8.72
HS2 (Secondary) to CX1 (Primary)	420	250	2.0	3.56	2.5	19.20
Plug & Blades	--	--	--	--	--	--
From the top of Plug to Blade	--	--	5.1	7.89	5.1	7.89
From the side of Plug to Blade	--	--	5.1	5.36	5.1	5.36
From the bottom of Plug to Blade	--	--	5.1	10.37	5.1	10.37
supplementary information:						
The minimum slot on PWB is 1.15 mm.						

2.10.5	TABLE: distance through insulation measurements				Pass
distance through insulation di at/of:		Up (V)	test voltage (V)	required di (mm)	di (mm)
Enclosure (Sabic, SE1X)		<270	3000 Vac	0.4	2.01
supplementary information:					
N/A					

4.5	TABLE: temperature rise measurements					Pass
	test voltage (V)	See below	See below.	See below.	See below.	--
						—

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		.					
	t1 (°C).....	--	--	--	--	--	—
	t2 (°C).....	--	--	--	--	--	—
maximum temperature T of part/at:		T (°C)					allowed Tmax (°C)
GT-41081-1805		--	--	--	--	--	--
Condition		Vertical	Vertical	Horizontal	Horizontal	--	--
Input		90V	264V	90V	264V	--	--
Duration (hrs)		2.36	2.26	2.25	2.38	--	--
1.T1 coil		106.6	101.9	107.3	105.8	--	110
2.T1 core		105.6	101.8	105.8	105.6	--	110
3.NF1 coil		93.2	78.3	93.9	79.8	--	130
4.NF2 coil		113.2	86.2	113.1	88.2	--	130
5.NF3 coil		81.4	78.9	81.3	80.3	--	130
6.CX1 body near NF2		94.9	77.6	95.9	79.2	--	100
7.C1 body near D6		89.8	75.6	90.5	76.9	--	105
8.PCB near Q1		100.6	98.3	99.7	100.9	--	130
9.U2 body		78.3	76.1	76.2	76.0	--	100
10.CY1 body near T1		108.3	98.9	108.4	101.0	--	125
11.PCB near D3 and D5		100.4	87.9	100.8	88.9	--	130
12.PCB near D4		103.7	98.0	104.2	98.7	--	130
13.C8A near D4		97.2	92.8	99.1	95.2	--	105
14.C8B near T1		88.0	84.8	89.5	86.8	--	105
15.Output cord		66.9	65.2	65.9	64.6	--	80
16.Enclosure inside above T1		92.9	89.7	94.1	93.7	--	95
17.Enclosure inside near plug holder		84.9	77.9	85.8	78.2	--	95
18.Enclosure outside above T1		73.8	70.3	77.0	77.3	--	95
19.Ambient		41.5	41.8	41.5	40.0	--	--
GT-41081-1806		--	--	--	--	--	--
Condition		Vertical	Vertical	Horizontal	Horizontal	--	--
Input		90V	264V	90V	264V	--	--
Duration (hrs)		2.36	2.26	2.25	2.38	--	--
21.T1 coil		98.5	91.3	92.3	89.4	--	110
22.T1 core		93.5	86.8	86.1	83.9	--	110
23.NF1 coil		92.8	82.0	88.5	78.4	--	130
24.NF2 coil		100.2	82.8	93.2	78.3	--	130
25.NF3 coil		78.9	73.8	73.5	72.4	--	130
26.CX1 body near NF2		94.7	82.3	89.5	78.7	--	100
27.C1 body near D6		89.0	73.8	82.4	67.9	--	105
28.PCB near Q1		95.4	85.8	86.1	78.7	--	130
29.U2 body		85.3	79.4	77.2	73.4	--	100
30.CY1 body near T1		101.0	90.7	93.5	85.6	--	125

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31.PCB near D3 and D5	96.1	81.6	88.6	74.8	--	130
32.PCB near D4	100.9	94.9	96.3	91.5	--	130
33.C8A near D4	95.0	88.6	90.6	86.3	--	105
34.C8B near T1	88.2	82.5	84.1	80.2	--	105
35.Output cord	67.5	63.4	62.1	59.7	--	80
36.Enclosure inside above T1	91.7	85.4	85.4	82.0	--	95
37.Enclosure inside near plug holder	86.8	81.4	82.5	76.2	--	95
38.Enclosure outside above T1	71.0	62.9	64.9	62.1	--	95
39.Ambient	44.4	45.7	41.8	40.0	--	--
GT-41081-1809	--	--	--	--	--	--
Condition	Vertical	Vertical	Horizontal	Horizontal	--	--
Input	90V	264V	90V	264V	--	--
Duration (hrs)	2.18	2.18	2.41	2.26	--	--
1.T1 coil	83.4	81.9	75.0	76.0	--	110
2.T1 core	82.3	81.7	73.8	75.3	--	110
3.NF1 coil	75.7	66.8	69.9	63.1	--	130
4.NF2 coil	81.6	69.1	74.6	64.2	--	130
5.NF3 coil	59.9	60.5	55.9	57.0	--	130
6.CX1 body near NF2	78.0	66.8	71.6	62.8	--	100
7.C1 body near D6	91.4	75.2	83.6	68.9	--	105
8.PCB near Q1	93.9	90.6	81.9	81.8	--	130
9.U2 body	74.8	74.8	66.5	67.8	--	100
10.CY1 body near T1	98.3	87.5	91.2	82.2	--	125
11.PCB near D3 and D5	95.6	82.4	87.1	75.8	--	130
12.PCB near D4	85.6	82.9	79.9	79.2	--	130
13.C8A near D4	85.8	82.9	79.8	79.0	--	105
14.C8B near T1	78.6	76.8	74.1	73.9	--	105
15.Output cord	62.4	63.2	57.6	58.7	--	80
16.Enclosure inside above T1	73.1	68.7	70.5	59.2	--	95
17.Enclosure inside near plug holder	74.1	70.3	70.8	68.5	--	95
18.Enclosure outside above T1	75.9	75.1	64.1	66.7	--	95
19.Ambient	40.8	41.5	41.3	40.8	--	--
temperature T of winding:		R ₁ (Ω)	R ₂ (Ω)	T (°C)	allowed Tmax (°C)	insulation class
--		--	--	--	--	--
supplementary information:						
The temperatures were measured under worst case normal mode defined in 1.2.2.1 and described in 1.6.2 at voltages as described in 1.4.5						
The client specified the max. ambient temperature was 40 degree C.						

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Clause	Requirement + Test	Result - Remark	Verdict

4.5.2	TABLE: ball pressure test of thermoplastics			Pass
	allowed impression diameter (mm)	2		—
part		test temperature (°C)	impression diameter (mm)	
Plug holder Mfr: SABIC, Type: SE1X, 2.01 mm thickness.		125	1.5 mm	
supplementary information:				
N/A				

4.7	TABLE: resistance to fire				Pass
part	manufacturer of material	type of material	thickness(mm)	flammability class	
--	--	--	--	--	
supplementary information:					
- See table 1.5.1 for details.					

5.2	TABLE: electric strength tests, impulse tests and voltage surge tests			Pass
test voltage applied between:		test voltage (V) a.c./d.c.	breakdown Yes / No	
Unit Primary to Secondary		3000 Vdc	No	
Unit Primary to Enclosure (foil body)		3000 Vdc	No	
Transformer Primary to Secondary		3000 Vac	No	
Transformer Secondary Winding to Core		3000 Vac	No	
1 layer of insulation tapes used in Transformer (3M Company, type: 1350T-1)		3000 Vac	No	
1 layer of insulation tapes used in Transformer (3M Company, type: 1350F(#))		3000 Vac	No	
1 layer of insulation tapes used in Transformer (3M Company, type: 44)		3000 Vac	No	
1 layer of insulation tapes used in Transformer (Bondtec Pacific Co., Ltd. type: 370S)		3000 Vac	No	
supplementary information:				
Unit also conducted this test immediately after related mechanical tests, humidity treatmentm, and related fault tests. No breakdown occurred.				

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Clause	Requirement + Test	Result - Remark	Verdict

5.3	TABLE: fault condition tests						Pass
	ambient temperature (°C)				See below		—
	model/type of power supply				See Models and Ratings		—
	manufacturer of power supply				See Cover Page		—
	rated markings of power supply				See Models and Ratings		—
component No.	fault	test voltage (V)	test time	fuse No.	fuse current (A)	result	
GT-41081-1808	--	--	--	--	--	--	
D3	Short	240Vac/60Hz	1sec	F1	0.151 to 0	NB,NC,NT,CD(F1) (b)	
C1	Short	240Vac/60Hz	1sec	F1	0.151 to 0	NB,NC,NT,CD(F1) (b)	
D4	Short	240Vac/60Hz	1sec	F1	0.151 to 0.034	NB,NC,NT,IP(U1) (a)	
ZD1	Short	240Vac/60Hz	1sec	F1	0.151 to 0.018	NB,NC,NT,IP(U1) (a)	
R6	Short	240Vac/60Hz	1sec	F1	0.151 to 0	NB,NC,NT,CD(F1) (b)	
U1 Pin 1-5	Short	240Vac/60Hz	1sec	F1	0.151 to 0.015	NB,NC,NT,IP(U1) (a)	
U1 Pin 1-2	Short	240Vac/60Hz	1sec	F1	0.151 to 0.015	NB,NC,NT,IP(U1) (a)	
U2 Pin 1-2	Short	240Vac/60Hz	1sec	F1	0.151 to 0.052	NB,NC,NT,IP(U1) (a)	
U2 Pin 3-4	Short	240Vac/60Hz	1sec	F1	0.151 to 0.014	NB,NC,NT,IP(U1) (a)	
U2 Pin 1	Open	240Vac/60Hz	1sec	F1	0.151 to 0.046	NB,NC,NT,IP(U1) (a)	
U2 Pin 3	Open	240Vac/60Hz	1sec	F1	0.151 to 0.052	NB,NC,NT,IP(U1) (a)	
Q1(G-D)	Short	240Vac/60Hz	1sec	F1	0.151 to 0	NB,NC,NT,CD(F1,Q1,R6) (b)	
Q1(D-S)	Short	240Vac/60Hz	1sec	F1	0.151 to 0	NB,NC,NT,CD(F1,Q1,R6) (b)	
Q1(G-S)	Short	240Vac/60Hz	1sec	F1	0.151 to 0	NB,NC,NT,IP(U1) (a)	
T1 Pin a- b	Short	240Vac/60Hz	1sec	F1	0.151 to 0.011	NB,NC,NT,IP(U1) (a)	
T1 Pin 1- 3	Short	240Vac/60Hz	1sec	F1	0.151 to 0	NB,NC,NT,CD(F1) (b)	
T1 Pin 4- 5	Short	240Vac/60Hz	1sec	F1	0.151 to 0.012	NB,NC,NT,IP(U1) (a)	
U1 Pin 2-5	Short	240Vac/60Hz	1sec	F1	0.151 to 0.011	NB,NC,NT,IP(U1) (a)	

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Clause	Requirement + Test	Result - Remark	Verdict

		z				
T1 Pin b to C8B Pin(+)	Short	240Vac/60Hz	10mins	F1	0.152 to 0.102	NB,NC,NT,IP(U1),unit shutdown,no hazards.
T1 after D4	Over load	240Vac/60Hz	9.2hrs.	F1	0.208 to 0.018	NB,NC,NT,IP(U1),unit shutdown,while the output loaded to 4.2A,T1 coil:115.4, degree C, T1 core:104 degree C,Amb:22.5 degree C no hazards
Output	Short	240Vac/60Hz	10mis	F1	0.151 to 0.108	NB,NC,NT,IP(U1),unit shutdown, no hazards
Output	Over load	240Vac/60Hz	8.6hrs.	F1	0.198 to 0.008	NB,NC,NT,IP(U1),unit shutdown,while the output loaded to 4A,T1 coil:116.6, degree C,T1core:103.3 degree C,Amb:22.7 degree C no hazards
GT-41081-1806	--	--	--	--	--	--
D3	Short	240Vac/60Hz	1sec	F1	0.171 to 0	NB,NC,NT,CD(F1) (b)
C1	Short	240Vac/60Hz	1sec	F1	0.171 to 0	NB,NC,NT,CD(F1) (b)
D4	Short	240Vac/60Hz	1sec	F1	0.171 to 0.034	NB,NC,NT,IP(U1) (a)
ZD1	Short	240Vac/60Hz	1sec	F1	0.171 to 0.018	NB,NC,NT,IP(U1) (a)
R6	Short	240Vac/60Hz	1sec	F1	0.171 to 0	NB,NC,NT,CD(F1) (b)
U1 Pin 1-5	Short	240Vac/60Hz	1sec	F1	0.171 to 0.015	NB,NC,NT,IP(U1) (a)
U1 Pin 1-2	Short	240Vac/60Hz	1sec	F1	0.171 to 0.015	NB,NC,NT,IP(U1) (a)
U2 Pin 1-2	Short	240Vac/60Hz	1sec	F1	0.171 to 0.052	NB,NC,NT,IP(U1) (a)
U2 Pin 3-4	Short	240Vac/60Hz	1sec	F1	0.171 to 0.014	NB,NC,NT,IP(U1) (a)
U2 Pin 1	Open	240Vac/60Hz	1sec	F1	0.171 to 0.046	NB,NC,NT,IP(U1) (a)
U2 Pin 3	Open	240Vac/60Hz	1sec	F1	0.171 to 0.052	NB,NC,NT,IP(U1) (a)
Q1(G-D)	Short	240Vac/60Hz	1sec	F1	0.171 to 0	NB,NC,NT,CD(F1,Q1,R6) (b)
Q1(D-S)	Short	240Vac/60Hz	1sec	F1	0.171 to 0	NB,NC,NT,CD(F1,Q1,R6) (b)
Q1(G-S)	Short	240Vac/60Hz	1sec	F1	0.171 to 0	NB,NC,NT,IP(U1) (a)

IEC 60950-1						
Clause	Requirement + Test			Result - Remark		Verdict
T1 Pin a- b	Short	240Vac/60Hz	1sec	F1	0.171 to 0.012	NB,NC,NT,IP(U1) (a)
T1 Pin 1- 3	Short	240Vac/60Hz	1sec	F1	0.171 to 0	NB,NC,NT,CD(F1) (b)
T1 Pin 4- 5	Short	240Vac/60Hz	1sec	F1	0.171 to 0.011	NB,NC,NT,IP(U1) (a)
U1 Pin 2-5	Short	240Vac/60Hz	1sec	F1	0.171 to 0.012	NB,NC,NT,IP(U1) (a)
T1 Pin b to C8B Pin(+)	Short	240Vac/60Hz	10mins	F1	0.168 to 0.102	NB,NC,NT,IP(U1),unit shutdown,no hazards.
T1 after D4	Over load	240Vac/60Hz	9.2hrs.	F1	0.255 to 0.008	NB,NC,NT,IP(U1),unit shutdown,while the output loaded to 4.5A,T1 coil:107.6, degree C, T1 core:103.4 degree C,Amb:22.9 degree C no hazards
Output	Short	240Vac/60Hz	10mis	F1	0.171 to 0.117	NB,NC,NT,IP(U1),unit shutdown, no hazards
Output	Over load	240Vac/60Hz	8.6hrs.	F1	0.238 to 0.012	NB,NC,NT,IP(U1),unit shutdown,while the output loaded to 4.2A,T1 coil:102.7, degree C,T1core:96.6 degree C,Amb:22.5 degree C no hazards
GT-41081-1809	--	--	--	--	--	--
D3	Short	240Vac/60Hz	1sec	F1	0.169 to 0	NB,NC,NT,CD(F1) (b)
C1	Short	240Vac/60Hz	1sec	F1	0.169 to 0	NB,NC,NT,CD(F1) (b)
D4	Short	240Vac/60Hz	1sec	F1	0.169 to 0.034	NB,NC,NT,IP(U1) (a)
ZD1	Short	240Vac/60Hz	1sec	F1	0.169 to 0.018	NB,NC,NT,IP(U1) (a)
R6	Short	240Vac/60Hz	1sec	F1	0.169 to 0	NB,NC,NT,CD(F1) (b)
U1 Pin 1-5	Short	240Vac/60Hz	1sec	F1	0.169 to 0.015	NB,NC,NT,IP(U1) (a)
U1 Pin 1-2	Short	240Vac/60Hz	1sec	F1	0.169 to 0.015	NB,NC,NT,IP(U1) (a)
U2 Pin 1-2	Short	240Vac/60Hz	1sec	F1	0.169 to 0.052	NB,NC,NT,IP(U1) (a)
U2 Pin 3-4	Short	240Vac/60Hz	1sec	F1	0.169 to 0.014	NB,NC,NT,IP(U1) (a)
U2 Pin 1	Open	240Vac/60Hz	1sec	F1	0.169 to 0.046	NB,NC,NT,IP(U1) (a)

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Clause	Requirement + Test	Result - Remark	Verdict

U2 Pin 3	Open	240Vac/60Hz	1sec	F1	0.169 to 0.052	NB,NC,NT,IP(U1) (a)
Q1(G-D)	Short	240Vac/60Hz	1sec	F1	0.169 to 0	NB,NC,NT,CD(F1,Q1,R6) (b)
Q1(D-S)	Short	240Vac/60Hz	1sec	F1	0.169 to 0	NB,NC,NT,CD(F1,Q1,R6) (b)
Q1(G-S)	Short	240Vac/60Hz	1sec	F1	0.169 to 0	NB,NC,NT,IP(U1) (a)
T1 Pin a- b	Short	240Vac/60Hz	1sec	F1	0.169 to 0.012	NB,NC,NT,IP(U1) (a)
T1 Pin 1- 3	Short	240Vac/60Hz	1sec	F1	0.169 to 0	NB,NC,NT,CD(F1) (b)
T1 Pin 4- 5	Short	240Vac/60Hz	1sec	F1	0.169 to 0.013	NB,NC,NT,IP(U1) (a)
U1 Pin 2-5	Short	240Vac/60Hz	1sec	F1	0.169 to 0.012	NB,NC,NT,IP(U1) (a)
T1 Pin b to C8B Pin(+)	Short	240Vac/60Hz	10mins	F1	0.166 to 0.108	NB,NC,NT,IP(U1),unit shutdown,no hazards.
T1 after D4	Over load	240Vac/60Hz	9.2hrs.	F1	0.263 to 0.015	NB,NC,NT,IP(U1),unit shutdown,while the output loaded to 3.2A,T1 coil:105.2, degree C, T1 core:104.8 degree C,Amb:23.9 degree C no hazards
Output	Short	240Vac/60Hz	10mis	F1	0.169 to 0.121	NB,NC,NT,IP(U1),unit shutdown, no hazards
Output	Over load	240Vac/60Hz	8.6hrs.	F1	0.248 to 0.016	NB,NC,NT,IP(U1),unit shutdown,while the output loaded to 3A,T1 coil:93.8, degree C,T1core:91.7 degree C,Amb:22.6 degree C no hazards

supplementary information:

- The following Electric Strength (ES) potentials were applied after fault condition were indicated for one minute: A. Primary to Enclosure -> 3000 Vac. B. Primary to SELV -> 3000 Vac. - Comments Key: IP - Internal protection operated (list component); CT - Constant temperatures were obtained; CD - Components damaged (list damaged components); NB - No indication of dielectric breakdown; NC - Cheesecloth remained intact; NT - Tissue paper remained intact; (a) Unit Shutdown instantly and No hazard, no damage; (b) Fuse open instantly and No hazard, no damage; (c) Unit operated normally and No hazard, no damage.

Enclosure
National Differences

USA / Canada

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

USA / Canada - Differences to IEC 60950-1:2001, First 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.		Pass
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.		Pass
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.		Pass
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

IEC 60950-1			
SubClause	Difference + Test	Result - Remark	Verdict
	circuit classification requirements (e.g., TNV-2)		
1.6.1.2	Earthing of d.c. powered equipment provided.		N/A
1.7	Lamp replacement information indicated on lampholder in operator access area.		N/A
1.7.1	Special marking format for equipment intended for use on a supply system with an earthed neutral and more than one phase conductor.		N/A
1.7.1	Equipment voltage rating not higher than rating of the plug except under special conditions.		N/A
1.7.6	Special fuse replacement marking for operator accessible fuses.		Pass
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	Screw shell of Edison-base lampholder tied to the neutral conductor.		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	Enamel coating on signal transformer winding wire allowed as an alternative to Basic insulation in specific telecommunication applications when subjected to special construction requirements and routine testing.		N/A

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SubClause	Difference + Test	Result - Remark	Verdict

2.3.2	In the event of a single fault, the limits of 2.2.3 apply to SELV circuits and accessible conductive parts.		N/A
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 neither a) or b) are 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
2.10.5.4	Multi-layer winding wire subject to UL component wire requirements in addition to 2.10.5.4 and Annex U.		Pass
3.1.1	Permissible combinations of internal wiring/external		Pass

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SubClause	Difference + Test	Result - Remark	Verdict
	cable sizes for overcurrent and short circuit protection.		
3.1.1	All interconnecting cables protected against overcurrent and short circuit.		Pass
3.2	Wiring methods permit connection of equipment to primary power supply in accordance with the NEC and CEC, Part 1.		Pass
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,		N/A

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SubClause	Difference + Test	Result - Remark	Verdict

	Part 1.		
3.2.3	Permanently connected equipment may have terminals or leads not smaller than No. 18 AWG (0.82 mm ²) and not less than 152 mm in length for connection of field installed wiring.		N/A
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.	Cord anchorage made of insulating material. Disconnection or breaking of wiring at the connections will not result in a hazard.	Pass
3.2.9	Adequate wire bending space and volume of field wiring compartment required to properly make the field connections.		N/A
3.2.9	Equipment intended solely for installation in Restricted Access Locations using low voltage d.c. systems may not need provision for connecting and securing a field wiring system. A method of securing wiring or instructions provided to ensure the wiring is protected from abuse.		N/A
3.3	Field wiring terminals provided for interconnection of units for other than LPS or Class 2 circuits also comply with 3.3.		N/A
3.3	Interconnection of units by LPS or Class 2 conductors may have field wiring connectors other than those specified in 3.3 if wiring is reliably separated.		N/A
3.3.1	Terminals for the connection of neutral conductor identified by a distinctive white marking or other equally effective means.		N/A
3.3.3	Wire binding screw terminal permitted for		N/A

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SubClause	Difference + Test	Result - Remark	Verdict
	connection of No. 10 AWG (5.3 mm ²) or smaller conductor if provided with upturned lugs, cupped washer or equivalent retention.		
3.3.4	Terminals accept wire sizes (gauge) used in the U.S. and Canada.		N/A
3.3.4	Terminals accept current-carrying conductors rated 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
4.3.2	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 comply with 4.3.12 under all conditions of servicing		N/A

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SubClause	Difference + Test	Result - Remark	Verdict
	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 ³ of combustible media requires provision for automatic sprinklers or a gaseous agent extinguishing system.		N/A
4.7.3.1	Equipment for use in environmental air space other than ducts or plenums provided with metal enclosure or with non-metallic enclosure having adequate fire-resistance and low smoke producing characteristics. Low smoke-producing characteristics evaluated according to UL 2043. Equipment for installation in space used for environmental air as described in Sec. 300-22(c) of the NEC provided with instructions indicating suitability for installation in such locations.		N/A
4.7.3.1	Flame spread rating for external surface of combustible material with exposed area greater than 0.93 m ² or a single dimension greater than 1.8 m; 50 or less for computer room applications or 200 or less for other applications.		N/A
4.7.3.4	Wire marked "VW-1" or "FT-1" considered equivalent.	Output cord as interconnection cable.	Pass
5.1.8.2	Special earthing provisions and instructions for equipment with high touch current due to telecommunication network connections.		N/A
5.1.8.3	Touch current due to ringing voltage for equipment containing telecommunication network leads.		N/A
5.3.6	Overloading of SELV connectors and printed wiring board receptacles accessible to the operator.		N/A
5.3.6	Tests interrupted by opening of a component repeated two additional times.		N/A
5.3.8.1	Test interrupted by opening of wire or trace subject to certain conditions.	No opening of wire or trace.	N/A
6	Specialized instructions provided for telephones that may be connected to a telecommunications network.		N/A
6	Marking identifying function of telecommunication type connectors not used for connection to a telecommunication network.		N/A

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SubClause	Difference + Test	Result - Remark	Verdict
6.2.1	Special requirements for enameled wiring used as electrical separation provided between parts connected to telecommunication network and telecommunication circuitry intentionally isolated from network.		N/A
6.2.1	Digital line termination equipment (e.g., NCTE) subject to separation requirements.		N/A
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
6.5	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
7	Equipment associated with the cable distribution system may need to be subjected to applicable parts of Chapter 8 of the NEC.		N/A
H	Ionizing radiation measurements made under single fault conditions in accordance with the requirements of the Code of Federal Regulations 21 CFR 1020 and the Canadian Radiation Emitting Devices Act, REDR C1370.		N/A
M.2	Continuous ringing signals evaluated to Method A subjected to special accessibility considerations.		N/A
M.4	Special requirements for message waiting and similar telecommunications signals.		N/A
NAC	Equipment intended for use with a generic secondary protector marked with suitable instructions.		N/A
NAC	Equipment intended for use with a specific primary or secondary protector marked with suitable		N/A

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SubClause	Difference + Test	Result - Remark	Verdict

	instructions.		
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 to the user, as determined using the articulated accessibility probe (figure NAF.1) and the accessibility probe/wedge (figures NAF.2/NAF.3).		N/A