COVER PAGE FOR TEST REPORT

Product Category: Power Supplies for Information Technology Equipment Including Electrical Business Equipment Product Category CCN: QQGQ, QQGQ7 Test Procedure: Listing Product: Direct Plug In Switching Adapter Model/Type Reference: Model Series GT-81082-0506.5-X.X-USB-W2, where X.X is optional for specifying the output voltage deviations in 0.1 increments, and X.X is to be subtracted from the base rated voltage of 6.5. Rating(s): Input: 100-240 Vac, 50/60 Hz, 0.3 A Output: 4 - 6.5 Vdc, 1 A max., 5.2 W max. The output is set at a voltage between 4 - 6.5 Vdc, in 0.1 Vdc increments. 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) Applicant Name and Address: BLOBTEK INC NORTHVALE NJ 07647 UNITED STATES This Report includes the following parts, in addition to this cover page: 1. Specific Inspection Criteria 2. Specific Technical Criteria 3. Enclosures		
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 Specific Inspection Criteria Specific Technical Criteria 		186 VETERANS DR NORTHVALE NJ 07647
2. Specific Technical Criteria	This Report includes the follo	owing parts, in addition to this cover page:
3. Enclosures		2. Specific Technical Criteria
		3. Enclosures

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 Correction 2
 2008-09-08

Report Reference #

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

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

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

Test Report By:

AnnaMarie Vessey Staff Engineer Underwriters Laboratories Inc.

Reviewed By:

David R. Keen Staff Engineer Underwriters Laboratories Inc.

SPECIFIC TECHNICAL CRITERIA

	UL 60950-1, First Edition ion technology equipment - Safety- art 1: General Requirements
Report Reference No	E170507-A25-UL-1
Compiled by:	AnnaMarie Vessey
Reviewed by	David R. Keen
Date of issue	2008-06-19
Standards:	UL 60950-1, 1st Edition, 2006-07-07 (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:	Direct Plug In Switching Adapter
Trademark	None
Model and/or type reference:	Model Series GT-81082-0506.5-X.X-USB-W2, where X.X is optional for specifying the output voltage deviations in 0.1 increments, and X.X is to be subtracted from the base rated voltage of 6.5.
Rating(s):	Input: 100-240 Vac, 50/60 Hz, 0.3 A Output: 4 - 6.5 Vdc, 1 A max., 5.2 W max.
	The output is set at a voltage between 4 - 6.5 Vdc, in 0.1 Vdc increments.

Particulars: test item vs. test requirements	
Equipment mobility:	direct plug-in
Operating condition:	continuous
Mains supply tolerance (%):	+10%, -10%
Tested for IT power systems:	No
IT testing, phase-phase voltage (V):	N/A
Class of equipment:	Class II (double insulated)
Mass of equipment (kg):	0.06
Protection against ingress of water:	IP X0

Underwriters Laboratories Inc.

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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

SPECIFIC INSPECTION CRITERIA

BA1.0	Special Instructions to UL Representative
BA1.1	N/A

BB1.0	Supporting Documentation
BB1.1	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 -
	 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 ma	rkings 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 useholder.					
	Fuses - Non- operatorUnambiguous reference to service documentation for instructions for replacement of fuses replaceable only by service personnel						

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access/soldered- in fuses	
Limited Power Source Marking	Unit may be optionally marked "LPS" or "Limited Power Source"

BD1.0	Production-Line Testing Requirements								
BD1.1	Electric Str further info		cial Constructions -	Refer to Generic Inspection I	nstructio	ons, Pa	rt AC for		
						est ential			
					V		Test		
	Model	Component	Removable Parts	Test probe location	rms	V dc	Time, s		
	N/A								
BD1.2	Earthing Continuity Test Exemptions - This test is not required for the following models:			Model Series GT-81082- 0506.5-X.X-USB-W2					
BD1.3	Electric Strength Test Exemptions - This test is not required for the following models:		N/A						
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:			N/A					

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

	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 Critical Component List)	Pass
1.5.2	Evaluation and testing of components	Certified components are used in accordance with their ratings, certifications and they comply with applicable parts of this Standard. Components not certified are used in accordance with their ratings and they comply with applicable parts of this Standard and the relevant component Standard. Components, for which no relevant IEC Standard exist, have been tested under the condition occurring in the equipment, using applicable parts of this Standard.	Pass
1.5.3	Thermal controls		N/A
1.5.4	Transformers	Transformers comply with relevant requirements including Annex C.	Pass
1.5.5	Interconnecting cables		N/A
1.5.6	Capacitors in primary circuits:		N/A
1.5.7	Double insulation or reinforced insulation bridged by components		N/A
1.5.7.1	General		N/A
1.5.7.2	Bridging capacitors		N/A
1.5.7.3	Bridging resistors		N/A
1.5.7.4	Accessible parts		N/A
1.5.8	Components in equipment for IT power systems	Not for use on IT power systems.	N/A

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

1.6	Power interface	Power interface	
1.6.1	AC power distribution systems	AC power distribution systems are classified 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 Test Record for details.	Pass
1.6.3	Voltage limit of hand-held equipment	Not hand-held equipment .	N/A
1.6.4	Neutral conductor	Neutral conductor is insulated from secondary circuitry as if it were a line conductor.	Pass

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	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.	Pass
	Rated voltage(s) or voltage range(s) (V):	100-240 Vac	Pass
	Symbol for nature of supply, for d.c. only	AC source	N/A
	Rated frequency or rated frequency range (Hz) :	50-60 Hz	Pass
	Rated current (mA or A):	0.3 A	Pass
	Manufacturer's name or trademark or identification mark:	Globtek or "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 marking may be provided when submitted for national approval.	Pass
	Certification marks	UL, c-UL.	Pass
1.7.2	Safety instructions	Operating/safety instructions made available to the user.	Pass
1.7.3	Short duty cycles		N/A
1.7.4	Supply voltage adjustment:		N/A
1.7.5	Power outlets on the equipment:	No standard power outlets are provided.	N/A
1.7.6	Fuse identification:	F1: "T or F1 A, 250 Vac" marked on PWB near primary input fuse.	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	Not Permanently connected equipment	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:	No indicator, control affecting safety provided.	N/A
1.7.8.2	Colours:		N/A

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

1.7.8.3	Symbols according to IEC 60417:	There are no switches 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 voltages.	N/A
1.7.10	IT power distribution systems	Not intended to use IT Power System	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 upon request from the manufacturer.	-
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	Marking is not placed on removable parts.	Pass
1.7.15	Replaceable batteries	No batteries provided.	N/A
	Language		-
1.7.16	Operator access with a tool:	No operator access areas require the use of a tool.	N/A
1.7.17	Equipment for restricted access locations:		N/A

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	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 not contact with any parts with hazardous voltage.	Pass
	Test with test finger:	The test finger was unable to contact bare hazardous parts.	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:		N/A
2.1.1.3	Access to ELV wiring		N/A
	Working voltage (V); minimum distance (mm) through insulation:	See 2.10.3 and 2.10.4 Table of clearance and creepage distance measurements.	-
2.1.1.4	Access to hazardous voltage circuit wiring		N/A
2.1.1.5	Energy hazards:	The output of the power supply is not an energy hazard.	Pass
2.1.1.6	Manual controls		N/A
2.1.1.7	Discharge of capacitors in equipment		N/A
	Time-constant (s); measured voltage (V):		-
2.1.2	Protection in service access areas		N/A
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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IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

2.2	SELV circuits		Pass
2.2.1	General requirements		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 71 Vp and 120 V dc and do not exceed 42.4 Vp or 60 V dc for more than 0.2 sec.	Pass
2.2.3.1	Separation by double insulation or reinforced insulation (method 1)		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 secondary circuits. SELV circuit and all interconnected circuits separated from primary by reinforced insulation. The SELV circuit does not exceed the SELV limits under normal and fault conditions.	Pass

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
	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

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

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 capacitance (mF):	-
2.4.3	Connection of limited current circuits to other circuits	N/A

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		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):	Uoc: 20.8 V Isc: 1.163 A VA: 5.76 VA	-
	Current rating of overcurrent protective device (A):		-

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

2.6	Provisions for earthing and bonding	N/A
2.6.1	Protective earthing	N/A
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:	-
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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IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

2.7	Overcurrent and earth fault protection in primary circuits		Pass
2.7.1	Basic requirements		Pass
	Instructions when protection relies on building installation		N/A
2.7.2	Faults not covered in 5.3		N/A
2.7.3	Short-circuit backup protection	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		N/A
2.7.6	Warning to service personnel		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

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

2.9	Electrical insulation		Pass
2.9.1	Properties of insulating materials	Natural rubber, hygroscopic materials and materials containing asbestos are not used as insulating materials. Electric strength test was conducted after the humidity treatment. See below.	Pass
2.9.2	Humidity conditioning	Humidity treatment performed to 120 hrs in condition : 95%, 40°C	Pass
	Humidity (%):	95	-
	Temperature (°C):	40	-
2.9.3	Grade of insulation	Reinforced Insulation between Primary and SELV, Basic Insulation between Primary and Earth, Functional Insulation between Primary and Primary and between SELV and SELV.	Pass

IEC 60950-1			
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 Test Record for details.	Pass
2.10.3	Clearances	See appended table.	Pass
2.10.3.1	General	Measured distances are adequate.	Pass
2.10.3.2	Clearances in primary circuit	See appended table.	Pass
2.10.3.3	Clearances in secondary circuits	Functional insulation, see 5.3.4.	Pass
2.10.3.4	Measurement of transient voltage levels		N/A
2.10.4	Creepage distances	See appended table.	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	Three layers used, two of which complies with the required electric strength test. Thickness 0.025 mm each.	Pass
	Number of layers (pcs):	Two layers of polyester tape provided as outer wrap on primary and secondary winding of transformer. Three layers of polyester tape provided between primary and secondary wires.	-
	Electric strength test:	Electric strength conducted on one layer of tape at 3000 Vac.	-
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	Triple Insulated wire used.	Pass
	Number of layers (pcs)	Three wrapped layers.	Pass

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Clause	Requirement + Test	Result - Remark	Verdict

	Two wires in contact inside wound component; angle between 45° and 90°	Crossover insulation is provided by one layer of insulating tape.	Pass
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		N/A
	Temperature T1=T2 = Tma - Tamb +10K (°C):		N/A
2.10.8	Spacings filled by insulating compound:	UL approved optical isolators used.	Pass
	Electric strength test:	UL approved optical isolators used.	-
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 Pass
3.1.1	Current rating and overcurrent protection	Internal wiring is adequately sized for the current it is intended to carry and protected from overcurrent.	
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		N/A
3.1.4	Insulation of conductors		N/A
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	Conductors suitably terminated, creepage and clearances maintained, second securing for soldered terminations provided.	Pass
	10 N pull test		N/A
3.1.10	Sleeving on wiring		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. mai	ins 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	Direct plug-in equipment.	N/A
3.2.5	Power supply cords	Direct plug-in equipment.	N/A
3.2.5.1	AC power supply cords		N/A
	Туре:		-
	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	Direct plug-in equipment.	Pass
	Mass of equipment (kg), pull (N)	Only push test was applied	-
	Longitudinal displacement (mm):	Only push test was applied	-
3.2.7	Protection against mechanical damage	Direct plug-in equipment.	N/A
3.2.8	Cord guards	Direct plug-in equipment.	N/A
	D (mm); test mass (g):		-
	Radius of curvature of cord (mm):		-
3.2.9	Supply wiring space	Direct plug-in equipment.	N/A

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3.3	Wiring terminals for connection of external cond	ductors	N/A
3.3.1	Wiring terminals	Direct plug-in equipment.	N/A
3.3.2	Connection of non-detachable power supply cords	Direct plug-in equipment.	N/A
3.3.3	Screw terminals	Direct plug-in equipment.	N/A
3.3.4	Conductor sizes to be connected		N/A
	Rated current (A), cord/cable type, cross-sectional area (mm ²):	Direct plug-in equipment.	-
3.3.5	Wiring terminal sizes		N/A
	Rated current (A), type and nominal thread diameter (mm):	Direct plug-in equipment.	-
3.3.6	Wiring terminals design	Direct plug-in equipment.	N/A
3.3.7	Grouping of wiring terminals	Direct plug-in equipment.	N/A
3.3.8	Stranded wire	Direct plug-in equipment.	N/A

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3.4	Disconnection from the mains supply		Pass
3.4.1	General requirement	Direct Plug-In equipment	Pass
3.4.2	Disconnect devices	A mains plug that is part of DIRECT PLUG-IN EQUIPMENT	Pass
3.4.3	Permanently connected equipment	Not permanently connected equipment.	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	No isolating switch in the cord set.	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 is provided.	N/A
3.4.9	Plugs as disconnect devices	Direct Plug-In equipment. There are no power supply cord used.	N/A
3.4.10	Interconnected equipment	No interconnection of hazardous voltages.	N/A
3.4.11	Multiple power sources	One power source only.	N/A

3.5	Interconnection of equipment		Pass
3.5.1	General requirements	Output of power supply is a limited power source.	Pass
3.5.2	Types of interconnection circuits:	Interconnection circuits are SELV CIRCUITS.	Pass
3.5.3	ELV circuits as interconnection circuits		N/A

4	PHYSICAL REQUIREMENTS		Pass
4.1	Stability		N/A
	Angle of 10°	Direct Plug-In equipment.	N/A
	Test: force (N):		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

4.2	Mechanical strength		Pass
4.2.1	General	See below	Pass
4.2.2	Steady force test, 10 N		Pass
4.2.3	Steady force test, 30 N		N/A
4.2.4	Steady force test, 250 N	No hazards as a result of the 250 N test.	Pass
4.2.5	Impact test	Direct plug-in equipment.	N/A
	Fall test		N/A
	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 (95 degree C/7 h).	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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4.3	Design and construction		Pass
4.3.1	Edges and corners	All edges and corners are judged to be sufficiently well rounded so as not to constitute a hazard.	Pass
4.3.2	Handles and manual controls; force (N):		N/A
4.3.3	Adjustable controls	No setting for power supply voltage.	N/A
4.3.4	Securing of parts		N/A
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	Power supply suitable for the application and compliant with national requirements is to be provided by the manufacturer or distributor.	Pass
	Dimensions (mm) of mains plug for direct plug-in . :	The blade configuration is in accordance with the national applicable standards. NEMA 1- 15P Configuration.	Pass
	Torque and pull test of mains plug for direct plug-in; torque (Nm); pull (N):	The mains plug part complied with the standard for the relevant mains plug.	Pass
4.3.7	Heating elements in earthed equipment		N/A
4.3.8	Batteries		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 (I):		N/A
	Flash point (°C):		N/A
4.3.13	Radiation; type of radiation	lonising radiation or laser or in which similar hazards are not	N/A

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Clause	Requirement + Test	Result - Remark	Verdict

		presents.	
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	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. Permitted rises based on manufacturer's specified Tmra of 40°C. See Test Record for details.	Pass
4.5.2	Resistance to abnormal heat	(See appended table 4.5.2)	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	No openings.	N/A
	Construction of the bottom:		-
4.6.3	Doors or covers in fire enclosures		N/A
4.6.4	Openings in transportable equipment		N/A
4.6.5	Adhesives for constructional purposes		N/A
	Conditioning temperature (°C)/time (weeks):		-

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4.7	.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		Pass
	Method 2, application of all of simulated fault condition tests		N/A
4.7.2	Conditions for a fire enclosure		Pass
4.7.2.1	Parts requiring a fire enclosure	Components in primary and secondary circuits are provided with fire enclosure.	Pass
4.7.2.2	Parts not requiring a fire enclosure		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 moveable 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	USB connector rated min. V-2	Pass
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.	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	Touch current levels did not exceed limits of Table 5A. See enclosed test record.	Pass
5.1.2	Equipment under test (EUT)	Single mains connection.	Pass
5.1.3	Test circuit	Test circuit of Figure 5A used.	Pass
5.1.4	Application of measuring instrument	Measuring circuit of Annex D used.	Pass
5.1.5	Test procedure	Touch current was measured from primary to enclosure and primary to output.	Pass
5.1.6	Test measurements	RMS value measured.	Pass
	Test voltage (V)	264 V ac, 60 Hz	-
	Measured touch current (mA):	Max 0.01 mA	-
	Max. allowed touch current (mA):	0.25 mA	-
	Measured protective conductor current (mA):	N/A	-
	Max. allowed protective conductor current (mA) :	N/A	-
5.1.7	Equipment with touch current exceeding 3.5 mA:	Touch current is < 0.25mA.	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	No TNV circuit.	N/A
	Test voltage (V):		-
	Measured touch current (mA):		-
	Max. allowed touch current (mA):		-
5.1.8.2	Summation of touch currents from telecommunication networks:		N/A

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5.2	Electric strength	Electric strength	
5.2.1	General	Based on the electric strength test the use of the insulating materials within the equipment is satisfactory.	Pass
5.2.2	Test procedure	(see appended table 5.2)	Pass

5.3	Abnormal operating and fault conditions		Pass
5.3.1	Protection against overload and abnormal operation	Unit is protected by regulating circuitry and primary input fuse. See Test Record for details.	Pass
5.3.2	Motors		N/A
5.3.3	Transformers	Transformers are protected by primary fuse and by regulating network.	Pass
5.3.4	Functional insulation:	Functional insulation complies with the requirements (a) or (c).	Pass
5.3.5	Electromechanical components		N/A
5.3.6	Simulation of faults	See Test Record for details.	Pass
5.3.7	Unattended equipment	The equipment is not intended for unattended use.	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

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

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:	-

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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	
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

А	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)	
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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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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В	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:	-
	Туре	-
	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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GENERAL PRODUCT INFORMATION:

CA1.0	Report Summary
CA1.1	N/A
CB1.0	Product Description
CB1.1	This product is a direct plug-in type power unit intended to be used for information technology equipment in TN power systems and is for indoor use only. It consists of an isolated transformer with electronic ciruitry housed in a thermoplastic enclosure. It is also provided with parallel type blades with NEMA 1-15P configuration and USB connector for output connection.
CC1.0	Model Differences
CC1.1	Model Series GT-81082-0506.5-X.X-USB-W2 where X.X is optional, and can be 2.5 thru 0.1 in 0.1 increments or may be blank.
	Model GT-81082-0506.5-X.X-USB-W2 is the base model where X.X would be blank.
	X.X specifies the output voltage deviations in 0.1 volt increments. X.X is to be subtracted from the base output voltage of "6.5" to give the output voltage of the particular model.
	For example, for a 5Vdc output model, the model name would be GT-81082-0506.5-1.5-USB-W2, where $6.5 - 1.5 = 5$ to indicate 5Vdc.
CD1.0	Additional Information
CD1.1	N/A
CE1.0	Technical Considerations
CE1.2	The product was submitted and tested for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: 40°C
CE1.3	The means of connection to the mains supply is: Pluggable A
CE1.4	The product is intended for use on the following power systems: TN
CE1.5	The equipment disconnect device is considered to be: Direct Plug-in blades
CE1.9	The following circuit locations (with circuit/schematic designation) were investigated as a limited power source (LPS): Vout (+ to -)

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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:	-

К	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)	
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

М	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	Ringing 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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P Annex P, NORMATIVE REFERENCES Pa

Q Annex Q, BIBLIOGRAPHY	N/A
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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)	
S.1	Test equipment	N/A
S.2	Test procedure	N/A
S.3	Examples of waveforms during impulse testing	N/A

Т	Annex T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)	
		-

U	Annex U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)		Pass
	:	UL recognized triple insulated wire	-

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1.5.1	TABLE: list of critica	I components				Pass
Object/part No.	Manufacturer/ trademark	type/model	technical data	Product Category CCN(s)	Required Marks of Conformity	Supplement ID
Enclosure	GE Plastics	SE1X	V-1, 105°C, minimum 1.5 mm thick. Measured overall 64 by 27.5 by 45.5 mm. Two halves construction, secured together by ultrasonic welding.	QMFZ2	UL	3-01
Enclosure (alternate)	GE Plastics	940	V-0, 125°C, minimum 1.5 mm thick. Measured overall 70.0 by 32.0 by 53.8 mm. Two halves construction, secured by screw and snap fit.	QMFZ2	UL	3-01
Input Blades			Solid copper, non-grounding, non-polarized, NEMA 1-15P configuration. Spaced minimum 8 mm from perimeter edge of Enclosure.			3-01
USB Output Connector	Various	Various	Rated minimum V-2.	QMFZ2	UL	3-01
Internal Wiring (Primary)	Various	Various	Rated minimum 80°C, 300V, minimum No. 26 AWG. PVC, TFE, PTFE, FEP or neoprene or surface marked VW-1	AVLV, AVLV2	UL	3-02
Insulating Tubing/Sleeving	Various	Various	FEP, PTFE, PVC, TFE, neoprene, or marked VW-1; 105°C, 300 V	UZFT2, YDPU2, YDRY2, YDTU2	UL	3-02
Printed Wiring Board	Various	Various	Rated minimum V-1, 105oC.	ZPMV2	UL	5-02
Fuse (F1)	Various	Various	F1 A, 250 Vac.	JDYX	UL	3-03
Fuse (F1) (Alternate)	Lanson Electronics	3J	F1 A, 250 Vac.	JDYX2	UL	3-03
Fuse (F1) (Alternate)	Conquer Electronics Co., Ltd.	PGU	F1 A, 250 Vac.	JDYX2	UL	3-03
Fuse (F1) (Alternate)	Various	Various	T1 A, 250 Vac.	JDYX	UL	3-03

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Fuse (F1) (Alternate)	Conquer Electronics Co., Ltd.	PTU	T1 A, 250 Vac.	JDYX2	UL	3-03
Fuse (F1) (Alternate)	Das & Sons International Ltd.	385T series	T1 A, 250 Vac.	JDYX2	UL	3-03
Bridge Diodes (D1, D2, D6, D7)	Various	Various	Rated minimum 1 A, minimum 800 V.			3-03
Electrolytic Capacitors (C4, C5)	Various	Various	Integral pressure relief, rated maximum 68 μF, minimum 400 V, minimum 85°C.			3-03
Chokes (L1) (Optional)	Various	30D001230-00F	Open type construction. Rated 105°C.			4-01
Core (L1)	Various	Various	Ferrite, measured overall 4.3 mm diameter by 6.5 mm high.			4-01
Coil (L1)	Various	Various	Rated minimum 105°C.	OBMW2	UL	4-01
Optical Isolators (U2)	Cosmo Electronics Corp.	K1010, KP1010	Minimum 3000 V ac isolation. Double protection.	FPQU2	UL	3-03
Optical Isolators (U2) (Alternate)	Everlight Electronics Co., Ltd.	EL817	Minimum 3000 V ac isolation. Double protection.	FPQU2	UL	3-03
Optical Isolators (U2) (Alternate)	Sharp Corp., Electronic Components Group	PC817	Minimum 3000 V ac isolation. Double protection.	FPQU2	UL	3-03
Optical Isolators (U2) (Alternate)	Bright LED Electronics Corp.	BPC-817B, BPC- 817MB	Minimum 3000 V ac isolation. Double protection.	FPQU2	UL	3-03
Optical Isolators (U2) (Alternate)	Lite-On Technology Corp.	LTV-817	Minimum 3000 V ac isolation. Double protection.	FPQU2	UL	3-03
Transformer (T1)	Dee Van Enterprise Co., Ltd.	90E165000-04H	Class B Insulation System, Dee Van, designated HIS-8A, See enclosure.	OBJY2	UL	4-02
Transformer (T1) Alternate	GlobTek Inc.	90E165000-04H	Class B, Insulation System, Globtek, designatedType GTX- 1, See enclosure.	OBJY2	UL	4-02
Core (T1)	Various	Various	Ferrite, measured overall 16.5 by 14.5 by 5 mm.			4-02
Coil (T1)	Various	Various	Rated minimum 130°C.	OBMW2	UL	4-02

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Triple Insulated Winding	Furukawa Electric	TEX-E	Rated minimum 130°C.	OBJT2	UL	4-02
Wire (T1)	Co., Ltd.					
Triple Insulated Winding	Totoku Electric Co.,	TIW-E	Rated minimum 130°C.	OBJT2	UL	4-02
Wire (T1) (Alternate)	Ltd.			<u></u>		
Bobbin (T1)	Hitachi Chemical Co., Ltd.	CP-J-8800	Rated V-0, 150°C, minimum 0.71 mm thick.	QMFZ2	UL	4-02
Bobbin (T1) (Alternate)	E I Dupont De Nemours & Co., Inc.	FR530	Rated V-0, 155°C, minimum 0.75 mm thick.	QMFZ2	UL	4-02
Insulating Tape (T1)	Symbio Inc.	MY130	Polyester tape, 0.05 mm thick, rated 130°C.	OANZ2	UL	4-02
Insulating Tape (T1) (Alternate)	Nitto Denko Corp.	354, 355G	Polyester tape, 0.05 mm thick, rated 130°C.	OANZ2	UL	4-02
Varnish (T1)	Hitachi Chemical Co., Ltd.	WA-238A	Rated minimum 130°C.	OBOR2	UL	4-02
Varnish (T1) (Alternate)	Meiden Chemical Co., Ltd.	754XL, 880	Rated minimum 130°C.	OBOR2	UL	4-02
Tubing (T1)	Zeus Industrial Products Inc.	TFE-TW-300	Minimum 130°C. Provided on all exit leads.	YDPU2	UL	4-02
LPS Resistors (R7, R8)	Various	Various	R8 rated 9.53 kohms, R7 rated 10 kohms.			3-03
Heat Sink	Various	Various	Aluminum, minimum 0.8 mm thick. See Enclosure for detailed dimensions.			4-03
Insulation Sheet	Various	Various	Rated V-2, 130°C, minimum 0.4 mm thick. U-shaped, measured overall 14.5 by 17 by 12 mm. Provided around T1.	QMFZ2	UL	3-03
Foam	Various	Various	Rated V-2, 130°C. Provided between T1 and enclosure.	QMFZ2	UL	3-02
Adhesive Glue	Various	Various	Minimum V-2, 105°C.	QMFZ2	UL	3-03
Label	Various	Various	60°C.	PGDQ2	UL	3-01

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1.6.2	TABLE:	TABLE: electrical data (in normal conditions)					
fuse #	I rated (A)	U (V)	P (W)	I (mA)	I fuse (mA)	condition/status	
supplementary information:							

2.10.3 and 2.10.4	TABLE: clearance and creepage distance measurements					Pass	
clearance cl distance dcr	and creepage at/of:	Up (V)	U r.m.s. (V)	required cl (mm)	cl (mm)	required dcr (mm)	dcr (mm)
supplementary information:							

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)
supplementary information:				

4.5 TABLE: temperature rise measurements						Pass	
	test voltage (V)						_
	t1 (°C)						
	t2 (°C)						
maximum temperature T of part/at: T (°C)				allowed Tmax (°C)			
temperature T of winding:			R ₁ (Ω)	R ₂ (Ω)	T (°C)	allowed Tmax (°C)	insulation class
supple	supplementary information:						

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4.5.2 TABLE: ball pressure test of thermoplastics			Pass			
	allowed impression diameter (mm):					
part		test temperature (°C)		on diameter mm)		
supplementary information:						

4.7	1.7 TABLE: resistance to fire					
part		manufacturer of material	type of material	thickness(mm)	flammability class	
supplementary information:						

5.2	TABLE: electric strength tests, impulse tests and voltage surge tests			Pass
test voltage applied between:		test voltage (V) a.c./d.c.		akdown s / No
supplementary information:				

5.3	TABLE: fault condition tests				Pass		
	ambient temperature (°C)						
	model/type of power supply: :						_
	manufacturer of power supply :						_
	rated markings of power supply:			:			
component No.	fault	test voltage (V)	test time	fuse No.	fuse current (A)	result	
supplementary information:							
TW - Transfe	Comments Key: IP - Internal protection operated (list component) CT - Constant temperatures were obtained TW - Transformer winding opened CD - Components damaged (list damaged components) NB - No indication of dielectric breakdown YB - Dielectric breakdown (indicate time and location) NC - Cheesecloth remained						

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intact YC - Cheesecloth charred or flamed NT - Tissue paper remained intact YT - Tissue paper charred or flamed

Enclosure

National Differences

USA / Canada

Underwriters Laboratories Inc.

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

	USA / Canada - Differences to IEC 60950-1:200	01, 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.	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

	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.	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	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	N/A

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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.	N/A
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.		N/A
3.2.9	Adequate wire bending space and volume of field wiring compartment required to properly make the field connections.	Direct plug-in equipment.	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.	Direct plug-in equipment.	N/A
3.3	Interconnection of units by LPS or Class 2 conductors may have field wiring connectors other than those specified in 3.3 if wiring is reliably separated.		N/A
3.3.1	Terminals for the connection of neutral conductor identified by a distinctive white marking or other equally effective means.		N/A
3.3.3	Wire binding screw terminal permitted for connection of No. 10 AWG (5.3 mm ²) or smaller conductor if provided with upturned lugs, cupped		N/A

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	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 marked to indicate the presence of radiation where readily visible.	N/A

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4.3.13.5	Requirements contained in the applicable national codes and regulations apply to lasers (21 CFR 1040 and REDR C1370).		N/A
4.7	Automated information storage equipment intended to contain more than 0.76 m ³ of combustible media requires provision for automatic sprinklers or a gaseous agent extinguishing system.		N/A
4.7.3.1	Equipment for use in environmental air space other than ducts or plenums provided with metal enclosure or with non-metallic enclosure having adequate fire-resistance and low smoke producing characteristics. Low smoke-producing characteristics evaluated according to UL 2043. Equipment for installation in space used for environmental air as described in Sec. 300-22(c) of the NEC provided with instructions indicating suitability for installation in such locations.		N/A
4.7.3.1	Flame spread rating for external surface of combustible material with exposed area greater than 0.93 m ² or a single dimension greater than 1.8 m; 50 or less for computer room applications or 200 or less for other applications.		N/A
4.7.3.4	Wire marked "VW-1" or "FT-1" considered equivalent.		Pass
5.1.8.2	Special earthing provisions and instructions for equipment with high touch current due to telecommunication network connections.		N/A
5.1.8.3	Touch current due to ringing voltage for equipment containing telecommunication network leads.		N/A
5.3.6	Overloading of SELV connectors and printed wiring board receptacles accessible to the operator.	See Test Record for details.	Pass
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
6.2.1	Special requirements for enameled wiring used as electrical separation provided between parts		N/A

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	connected to telecommunication network and telecommunication circuitry intentionally isolated from network.	
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
Η	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

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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 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