File E132594 Project 06ME07627

July 21, 2006

REPORT

on

Class 2 POWER SUPPLIES - LISTED

Globtek Inc Northvale, NJ

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File E132594 Vol. 7 Sec. 12 Page 1 Issued: 2006-07-21 and Report Revised: 2006-10-02

DESCRIPTION

PRODUCT COVERED:

USL, CNL, Class 2 Inherently Limited Power Supply, Model GT-9100P9624.

GENERAL:

The unit covered by this Report is a cord connected Class 2 Power Unit.

The unit consists of a transformer and other related electronic circuitry wrapped with copper shield, which is housed in a thermoplastic enclosure, and provided with an IEC 320 style inlet for connection to line voltage. The above referenced copper shield is for EMC purposes only and is not relied upon for protective earth.

The unit or units described in this Report have been additionally investigated in accordance with the requirements of a Standard other than that for Class 2 Power Units. For details, see Construction Details, Engineering Considerations.

USL indicates investigation to the U.S. Standard for Safety of Class 2 Power Units, UL 1310, Fifth Edition.

CNL indicates investigation to Canadian Standard C22.2 No. 223-M91.

File E132594 Vol. 7 Sec. 12 Page 2 Issued: 2006-07-21 and Report

ELECTRICAL RATING:

	Input			Output		
Model No.	V	Hz	A	V dc	А	
GT-9100P9624	100-240	50-60	2.0	24	4.0	

ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

In addition to UL 1310 Standard for Class 2 Power Units, Fourth Edition, July 28, 1994/CSA C22.2 No. 223-M91, these models have been evaluated for compliance with the requirements for power supplies in the Standards specified below:

 Model
 UL Standard No,/Edition

 GT-9100P9624
 UL 60601-1, 1st Edition

 GT-9100P9624
 UL 60950-1, 3rd Edition

File E132594 Vol. 7 Sec. 12 Page 3 Issued: 2006-07-21 and Report

CONSTRUCTION DETAILS:

The unit shall be constructed in accordance with the following items. See also, Section General, Construction Details.

Printed Wiring Board Spacings - The pwb trace pattern shall be as illustrated in ILL. 1.

Markings - See Ill. 8 for markings and label material information. Section General, Markings for additional details.

FIG. 1	Front Overall View
FIG. 2	Rear Overall View
FIG. 3	Inside View
FIG. 4	Component Side View
FIG. 5	Bottom View
Ill. 1	PWB Trace Layout
Ill. 2	Enclosure Assembly
Ill. 3	Transformer, T2: 24 V
Ill. 4	T2 Top Heatsink
Ill. 5	T2 Top Heatsink Insulation
Ill. 6	T2 Bottom Heatsink
Ill. 7	T2 Bottom Heatsink Insulation
	FIG. 2 FIG. 3 FIG. 4 FIG. 5 Ill. 1 Ill. 2 Ill. 3 Ill. 4 Ill. 5 Ill. 6

1.5.1	TABLE: list of	f critical componen	nts		
Object/part No.	Manufacturer/ trademark	type/model	technical data Product Category CCN(s)		Required Marks of Conformity
Enclosure	GE	GE 940	V-0, 3.5 mm min., 105 degrees C max.	QMFZ2	UL R/C
AC Inlet	Yecx	TU-301-SP	250V, 15A or better; C14 type	RTRT2	UL R/C
AC Inlet	various	various	250V, 15A or better; C14 type	RTRT2	UL R/C
Output Cable	Lu Chiang Electric	XT	SPT-1 or SPT-2, 18 AWG, VW-1, 105°C	ZJCZ	LISTED
Diode Bridge, D1	Sep	SEP 51A	8A, 600V or better		
Alternate Diode Bridge, D1	Panjit	various	8A, 600V or better		
Alternate Diode Bridge, D1	various	various	8A, 600V or better		
Printed Wiring Board	Jian he	AM 168	V-1 or better, 130°C	ZPMV2	UL R/C
Alternate Printed Wiring Board	Cheer	AM 168	V-1 or better, 130°C	ZPMV2	UL R/C
Fuses, F1, F2	Walter	2010	3.15A, 250V	JYDX2	UL R/C
Alternate Fuses F1, F2	Conquer	MST	3.15A, 250V	JYDX2	UL R/C
Varistor, VAR1	Thinking	TVR07471K	470 V	XUHT2	UL R/C
Alternate Varistor, VAR1	Joyin	JVR- 07N471K65YR W-L	470 V	XUHT2	UL R/C
Alternate Varistor, VAR1	various	various	470 V	XUHT2	UL R/C
Thermistor, RT	Thinking	SCK-2855A	5.5 ohm, 5 A min.	XGPU2	UL R/C
Alternate Thermistor, RT	various	various	5.5 ohm, 5 A min.	XGPU2	UL R/C
Photo coupler, IC6, IC7	Sharp	PC817A	Distance > 0.4 mm; 5000 vac isolation min.	FPQU2	UL R/C
Alternate Photo coupler, IC6, IC7	Vishay	TCET1107G	Distance > 0.4 mm; 5000 vac isolation min.	FPQU2	UL R/C
Alternate Photo coupler, IC6, IC7	Liteon	LTV817	Distance > 0.4 mm; 5000 vac isolation min.	FPQU2	UL R/C
Alternate Photo coupler, IC6, IC7	various	various	Distance > 0.4 mm; 5000 vac isolation min.	FPQU2	UL R/C
MOSFET, Q1	Fuji	2SK3337-01	17 A/600 V or better		
Alternate MOSFET, Q1	various	various	17 A/600 V or better		

File E132594 Vol. 7 Sec. 12 Page 5 Issued: 2006-07-21 and Report

Line Choke, LF1	Yao Sheng	AM688B-LF1	Class B (130°C) designated YST-JC1, M7A90, M7ADEW or	OBJY2	UL R/C
Alternate Line Choke, LF1	Dong-Guan Shek-Kit Top Nation Electronic Factory or Top Nation Electronic (Suzhou) Co. Ltd.	various	M7AGHB. Class B (130°C) designated YST-JC1, M7A90, M7ADEW or M7AGHB.	OBJY2	
Line Choke, LF2	Yao Sheng	AM688B-LF2	Class B (130°C) designated YST-JC1, M7A90, M7ADEW, M7AGHB or GTX-1.	OBJY2	UL R/C
Alternate Line Choke, LF2	Dong-Guan Shek-Kit Top Nation Electronic Factory or Top Nation Electronic (Suzhou) Co. Ltd.	various	Class B (130°C) designated YST-JC1, M7A90, M7ADEW, M7AGHB or GTX-1.	OBJY2	UL R/C
Bridge Diode, BD1	Panjit	KG600P	8 A, 600 V or better		
Alternate Bridge Diode, BD1	various	various	8 A, 600 V or better		
Capacitor, C9	Rubicon	MXG Series	420 V, 47 uF, 105°C min.		
Alternate Capacitor, C9	various	various	420 V, 47 uF, 105°C min.		
Transformer, T1	Yao Sheng	AM168B-T1	Class B (130°C) designated YST-JC1, M7A90, M7ADEW, M7AGHB or GTX-1.	OBJY2	
Alternate Transformer, T1	Dong-Guan Shek-Kit Top Nation Electronic Factory or Top Nation Electronic (Suzhou) Co. Ltd.	AM168B-T1	Class B (130°C) designated YST-JC1, M7A90, M7ADEW, M7AGHB or GTX-1.	OBJY2	
Transformer, T2	Yao Sheng	AM168B-T2- 12V-A	Class F (155°C) designated RXT-2.	OBJY2	

File E132594 Vol. 7 Sec. 12 Page 6 Issued: 2006-07-21 and Report

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Alternate	Dong-Guan	AM168B-T2-	Class F (155°C)	OBJY2	
Transformer, T2	Shek-Kit Top	12V-A	designated RXT-2.	ODS12	
Transionner, 12	Nation	12 7 7	designated for 2.		
	Electronic				
	Factory or				
	Wujiang				
	Fenhu				
Transformer, T2	Yao, Sheng	AM168B-T2-	Class F (155°C)	OBJY2	
Transionner, 12	rao, oneng	19V-A	designated RXT-2.	OBOTZ	
Alternate	Dong-Guan	AM168B-T2-	Class F (155°C)	OBJY2	
Transformer, T2	Shek-Kit Top	19V-A	designated RXT-2.	OBOTZ	
Transionner, 12	Nation	134 /4	designated TXT 2.		
	Electronic				
	Factory or				
	Top Nation				
	Electronic				
	(Suzhou) Co.				
	Ltd.				
Transformer, T2	Yao Sheng	AM168B-T2-	Class F (155°C)	OBJY2	
Transisimon, 12	l do onong	23V-A	designated RXT-2.	020.2	
Alternate	Dong-Guan	AM168B-T2-	Class F (155°C)	OBJY2	
Transformer, T2	Shek-Kit Top	23V-A	designated RXT-2.		
,	Nation		3		
	Electronic				
	Factory or				
	Top Nation				
	Electronic				
	(Suzhou) Co.				
	Ltd.				
Transformer, T2	Yao Sheng	AM168B-T2-	Class F (155°C)	OBJY2	
,		24V-A	designated RXT-2.		
Alternate	Dong-Guan	AM168B-T2-	Class F (155°C)	OBJY2	
Transformer, T2	Shek-Kit Top	24V-A	designated RXT-2.		
	Nation				
	Electronic				
	Factory or				
	Top Nation				
	Electronic				
	(Suzhou) Co.				
	Ltd.				
Transformer, T2	Yao Sheng	AM168B-T2-	Class F (155°C)	OBJY2	
		36V-A	designated RXT-2.		
Alternate	Dong-Guan	AM168B-T2-	Class F (155°C)	OBJY2	
Transformer, T2	Shek-Kit Top	36V-A	designated RXT-2.		
	Nation				
	Electronic				
	Factory or				
	Top Nation				
	Electronic				
	(Suzhou) Co.				
	Ltd.				

File E132594 Vol. 7 Sec. 12 Page 7 Issued: 2006-07-21 and Report

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T T.	V 01	ANAGOD TO	Ola E (45500)	OD 11/0	1
Transformer, T2	Yao Sheng	AM168B-T2- 48V-A	Class F (155°C) designated RXT-2.	OBJY2	
Alternate Transformer, T2	Dong-Guan Shek-Kit Top Nation Electronic Factory or Top Nation Electronic (Suzhou) Co. Ltd.	AM168B-T2- 48V-A	Class F (155°C) designated RXT-2.	OBJY2	
Capacitor, CX1	Ultra Tech	HQX	0.1 uF, 275 V max.	FOWX2	UL R/C
Alternate Capacitor, CX1	Chen Tong	СТХ	0.1 uF, 300 V max.	FOWX2	UL R/C
Alternate Capacitor, CX1	Camel	MPX	0.1 uF, 275 V max.	FOWX2	UL R/C
Alternate Capacitor, CX1	various	various	0.1 uF, 275 V max.	FOWX2	UL R/C
Capacitor, CX2	Ultra Tech	HQX	1 uF, 275 V max.	FOWX2	UL R/C
Alternate Capacitor, CX2	Chen Tong	CTX	1 uF, 300 V max.	FOWX2	UL R/C
Alternate Capacitor, CX2	Camel	MPX	1 uF, 275 V max.	FOWX2	UL R/C
Alternate Capacitor, CX2	various	various	1 uF, 275 V max.	FOWX2	UL R/C
Capacitor, CY1	Success	Y1 (SE Type)	102 pF, 400 V max.	FOKY2	UL R/C
Alternate Capacitor, CY1	Pan Overseas	Y1 (AH Type)	102 pF, 400 V max.	FOKY2	UL R/C
Alternate Capacitor, CY1	TDK	Y1 (CD Type)	102 pF, 400 V max.	FOKY2	UL R/C
Alternate Capacitor, CY1	various	various	102 pF, 400 V max.	FOKY2	UL R/C
Capacitor, CY2, CY3	Ultra Tech	Y1 (SE Type)	471 pF, 400 V max.	FOKY2	UL R/C
Alternate Capacitor, CY2, CY3	Chen Tong	Y1 (AH Type)	471 pF, 400 V max.	FOKY2	UL R/C
Alternate Capacitor, CY2, CY3	TDK	Y1 (CD Type)	471 pF, 400 V max.	FOKY2	UL R/C
Alternate Capacitor, CY2, CY3	various	Various	471 pF, 400 V max.	FOKY2	UL R/C
Mylar Insulation	Lcecl Enterprise Co. Ltd.	AM168B-M1-B	Dielectric Withstand 1500 V min.	QMFZ2	UL R/C
Alternate Mylar Insulation	Lcecl Enterprise Co. Ltd.	AM168B-M2	Dielectric Withstand 1500 V min.	QMFZ2	UL R/C

File E132594 Vol. 7 Sec. 12 Page 8 Issued: 2006-07-21 and Report

 PC Film
 Lcecl Enterprise Co. Ltd.
 FR-700
 O.432 mm thick min.
 QMFZ2
 UL R/C

 PC Film
 various
 various
 O.432 mm thick min.
 QMFZ2
 UL R/C

File E132594 Page T1-1 of 1 Issued: 2006-07-21

TEST RECORD NO. 1

SAMPLES:

Representative production samples of Model GT-9100P9624, described in the preceding section of this Report, were subjected to a test program, as outlined below.

Unless otherwise noted, tests were conducted in the order indicated. The following Standards were used:

- a. UL 1310, 5th Edition
- b. CAN/CSA-C22.2 NO.223-M91

Only the following tests were considered necessary based upon previous evaluation under the CB Scheme Test Certificate and Report Ref. No. E170507-A11 & E172861-A7.

Model GT-9100P9624

Maximum Output Voltage Test Output Current And Power Component Breakdown Test

CONCLUSION

Samples of the product covered by this Report have been found to comply with the requirements covering the class and the product are judged to be eligible for Listing and Follow-Up Service. The manufacturer is authorized to use the Laboratories' Mark on such products which comply with the Follow-Up Service Procedure and any other applicable requirements of Underwriters Laboratories Inc. Only those products which properly bear the Laboratories' Mark are considered as Listed by Underwriters Laboratories Inc.

Report by: Reviewed by:

MAX S. RODRIGUEZ
Project Engineer
Conformity Assessment Services

David V. Alma Staff Engineer Conformity Assessment Services

Project No. Compliance Review Conducted by:	06ME07627	File	E172861	Page ₋ Date	1
	Print	ted Name	Signature		
CONSTRUCTION	COMPLIANCE F	REVIEW RECORD			
Completed Construction Compliance Review was Reviewed and accepted by:		DAVID V ALMA			
		(Qualified Revie	wer) Printed Name	Sign	ature

Sample Identification -

Sample Card No.	Date Received	Sample No.	Manufacturer, Product Identification and Ratings
0799132- 001	6-12-06	1-6	GLOBTEK, MODEL GT-9100P9624, 100-240V, 50/60HZ, 2.0A

Measurement Instrument Information -

	,		Last Cal.	Next Cal.
Inst. ID No.	Instrument Type	Function/Range	Date	Date
5A-548	SPACER KEYS	MM	9-15-05	9-30-06

Comment [GE FG1]: Page: 1 Based on requirement in GLPM, Par.

Comment [GE FG2]: Page: 1 Based on requirement in GLPM, Par.

Comment [GE FG3]: Page: 1 Based on requirement in GLPM, Par. 5.2.1, 5.2.2, 5.2.3

Comment [GE FG7]: Page: 1
Based on requirement in LOM, Par.
6.3 D and CIP Manual

Comment [GE FG8]: Page: 1 Based on requirement in LOM, Par. 6.3 E and CIP Manual

Comment [GE FG4]: Page: 1
Based on requirement in LOM, Par. 6.3 B and CIP Manual

Comment [GE FG5]: Page: 1
Based on requirement in LOM, Par.
6.3 A and CIP Manual

Comment [GE FG6]: Page: 1 Based on requirement in LOM, Par. 6.3 C and CIP Manual

ULS-02377-AAAG7-ConstructionReview-2020 Form Page 1

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Form Issued: 2004-12-07 Form Revised: 2005-02-07

Project No.	06ME07627	File	E172861	Page	2
Compliance Review					
Conducted by:				Date	
_	Printed Na	ame	Signature		

CONSTRUCTION COMPLIANCE REVIEW:

The sample was reviewed for compliance with the construction requirements in the following Standard and compliance with applicable construction requirements is noted below.

CAN/CSA-C22.2 No. 223-M91, Power Supplies with Standard Extra-Low-Voltage Class 2 Outputs Edition 1991

Clause/Par. Reference and		Comply	7		Inst.
Construction Requirement	YES	NO	N/A	Comments/Measurements	ID No.
4. Construction					
4.1 General					
4.1.1 Characteristics	Х				
4.1.2 Components not intended for power	Х				
4.1.3 Component parts	Х				
4.1.4 Mass and centre of mass			Х		
4.1.5 Determination of moment of force and mass			Х		
4.2 Sources of Fire Hazard	Х				
4.3 Enclosures					
4.3.1 Prevention of access	Х				
4.3.2 Supplementary decorative enclosures			Х		
4.3.3 Enclosure compliance after drop and impact tests	Х				
4.3.4 Nonmetallic enclosures	Х				
4.3.5 Protection against corrosion of iron and steel parts	Х				
4.3.6 Openings in Enclosures					
4.3.6.1 Accessibility of live parts			Х	NO OPENINGS PROVIDED	

ULS-02377-AAAG7-ConstructionReview-2020 Form Page 2

Form Issued: 2004-12-07 Form Revised: 2005-02-07

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Project No.	06ME07627	File	E172861	Page	3
Compliance Review				Date	
Conducted by:				Date	
•	Printed Name		Signature		

Clause/Par. Reference and	(Comply	Y		Inst.
Construction Requirement	YES	NO	N/A	Comments/Measurements	ID No.
4.3.6.2 Compliance with impact test			Х		
4.4 Mechanical Assembly	Х				
4.5 Supply Connections	•				
4.5.1 Direct Plug-In Power Su	upplie	S			
4.5.1.1 Blade assembly			Х		
4.5.1.2 No mounting tab			Х		
4.5.1.3 Duplex receptacle access			Х		
4.5.1.4 Enclosure perimeter			Х		
4.5.2 Cord-Connected Power St	upplie	S			
4.5.2.1 Provision of a flexible cord and attachment plug or cord set			Х	IEC 320 STYLE	
4.5.2.2 Supply cord type SPT-2 or equial			Х		
4.5.2.3 Supply cord type SPT-1 or equal			Х		
4.5.2.4 Capacitor stored enerty	Х				
4.5.2.5 A power supply cord shall not pass through the same strain relief as an output cord	X				
4.5.2.6 Enclosed separated conductors	Х				
4.6 Internal Wiring					
4.6.1 Use of suitable insulation	Х				
4.6.2 Circuit separation	Х				
4.6.3 Securing of solder connections	Х				
4.6.4 Internal quick disconnect terminals and connectors of the blade and jaw configuration			Х		

ULS-02377-AAAG7-ConstructionReview-2020 Form Page 3

Project No.	06ME07627	File	E172861	Page	4
Compliance Review Conducted by:				Date	
	Printed Name		Signature		

Clause/Par. Reference and	(Comply	<u> </u>		Inst.
Construction Requirement	YES	NO	N/A	Comments/Measurements	ID No.
4.7 Electrical Insulating Mat	cerial	s			
4.7.1 Materials on which bare live parts are			Х		
4.7.2 Materials that contact primary circuit bare live parts and exposed metal parts or secondary circuits	Х				
4.8 Transformers and Magnetic	Comp	onents	3		
4.8.1 Transformers shall comply with the requirements of Clauses 4.8.2 to 4.8.9	Х				
4.8.2 Insulation locations	Х				
4.8.3 Insulation moisture- absorption resistant	Х				
4.8.4 Normal operation above Class 105 limits	Х				
4.8.5 Insulation between the primary and secondary windings, between secondary windings, and between the primary winding and the core	Х				
4.8.6 0.8 mm bent-up edge			Х		
4.8.7 Crossover lead insulation or spacing	Х				
4.8.8 Crossover lead insulation options			Х		
4.8.9 Class 2 secondary crossover lead exception			Х		
4.8.10 Moulded bobbin transformer having a slot for the crossover lead	Х				

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Project No.	06ME07627	File	E172861	Page	5
Compliance Review Conducted by:				Date	
conducted by.				Date	
•	Printed Name		Signature		

Clause/Par. Reference and		Comply	Į.		Inst.
Construction Requirement	YES	NO	N/A	Comments/Measurements	ID No.
4.8.11 Insulation between the primary lead connections and the adjacent winding and between secondary lead connections and the primary winding	Х				
4.8.12 Protective devices implanted within transformers			Х		
4.9 Switches			Х		
4.10 Electrical Spacings		•			'
4.10.1 Spacings per Tables 1 and 2	Х			TABLE 2 - NO OPENINGS MIN CREEPAGE = 6.5MM MIN CLEARANCE = 6.5MM	5A-548
4.10.2 Spacings within components	Х				
4.10.3 Provision of the minimum required spacings with 1 N force			Х		
4.10.4 The spacing at exposed field wiring terminal screws			Х		
4.10.5 The spacings for live parts on the load side of overcurrent devices	Х				
4.10.6 Printed wiring board spacings	Х				
4.10.7 Spacings of extra- low-voltage secondary circuits			Х		
4.11 Output Connections					

ULS-02377-AAAG7-ConstructionReview-2020 Form Issued: 2004-12-07 Form Page 5 Form Revised: 2005-02-07

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Project No.	06ME07627	File	E172861	Page	6
Compliance Review Conducted by:				Date	
	Printed Name		Signature		

Clause/Par. Reference and	(Comply	Y		Inst.
Construction Requirement	YES	NO	N/A	Comments/Measurements	ID No.
4.11.1 Provision of wire binding screws, terminal studs, jacks, or a permanently attached cord on power supplies	Х				
Provision of telephone plugs and jacks for use as output connectors on power supplies intended for use with designated end-use equipment					
4.11.2 Non-standard receptacles or attachment plugs			Х		
4.11.3 Polarity marked or polarized connector			Х		
4.11.4 Output connectors mounted on the enclosure			Х		
4.11.5 Terminal plate for a wire binding screw or stud			Х		
4.11.6 A wire binding screw or terminal shall be not smaller than M3.5 or No. 6			Х		
4.11.7 A screw or stud shall be of brass or other nonferrous metal or plated steel			Х		
4.11.8 Field wiring terminals prevented from movement			Х		
4.12 Strain Relief and Blade	Reten	tion			
4.12.1 Provision of strain relief for flexible cords	Х				
4.12.2 Specs of the strain relief	Х				
4.12.3 A knot in the supply cord			Х		
4.12.4 The blades and grounding pin blade retention			Х		

ULS-02377-AAAG7-ConstructionReview-2020 Form Page 6

ructionReview-2020 Form Issued: 2004-12-07 Form Revised: 2005-02-07 Form Copyright © 2004 Underwriters Laboratories Inc.

Project No.	06ME07627	File	E172861	Page	7
Compliance					
Review					
Conducted by:				Date	
_	Printed Name		Signature		

Clause/Par. Reference and Comply YES NO N/A CONSTRUCTION Requirement YES NO N/A CONSTRUCTION AND CONST	Comments/Measurements	Inst.
4.13 Open-Circuit Secondary Voltage 4.13.1 The open-circuit X secondary voltage shall not be more than 30 V rms (42.4 V peak or dc) 4.13.2 Interconnection of the output terminals 4.13.3 Interconnection X marking 4.14 Provisions for Limiting Output Current 4.14.1 Limitation of output X current 4.14.2 Use of an internal X overcurrent device 4.14.3 Acceptability of special-purpose fasteners		ID No.
secondary voltage shall not be more than 30 V rms (42.4 V peak or dc) 4.13.2 Interconnection of the output terminals 4.13.3 Interconnection		
the output terminals 4.13.3 Interconnection		
marking 4.14 Provisions for Limiting Output Current 4.14.1 Limitation of output X current 4.14.2 Use of an internal X overcurrent device 4.14.3 Acceptability of special-purpose fasteners		
4.14.1 Limitation of output X current 4.14.2 Use of an internal X overcurrent device 4.14.3 Acceptability of special-purpose fasteners		
current 4.14.2 Use of an internal X overcurrent device 4.14.3 Acceptability of Special-purpose fasteners		
overcurrent device 4.14.3 Acceptability of x special-purpose fasteners		
special-purpose fasteners		
4.15 Secondary Circuit X		
Protection		
4.16 Grounding and Bonding		
4.16.1 Exposed non-current- carrying metal parts of power supplies shall be grounded in accordance with CSA-C22.2 No. 0.4		
4.16.2 Grounding pin for X direct plug-in unit		
4.16.3 Impedence testing X based on primary protector		
4.17 Printed Wiring Boards		
4.17.1 Printed-wiring X boards used in enclosures that have openings		
4.17.2 Printed-wiring X boards that contain only components in Class 2 circuits		
5. Marking X		

ULS-02377-AAAG7-ConstructionReview-2020 Form Page 7

Form Issued: 2004-12-07 Form Revised: 2005-02-07

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Project No.	06ME07627	File	E172861	Page	8
Compliance					
Review					
Conducted by:				Date	
_	Printed Name		Signature	•	

Clause/Par. Reference and	Comply				Inst.
Construction Requirement	YES	NO	N/A	Comments/Measurements	ID No.
5.1 Permanent and visible markings	Х				
5.2 Applicable warnings	Х				
5.3 Polarity	Х				
5.4 Telephone type output connectors for designated use			Х		
5.5 Telecommunication applications			X		
5.6 Duty cycle			Х		