



Ref. Certif. No.

US/12756A/UL

IEC SYSTEM FOR CONFORMITY TESTING AND
CERTIFICATION OF ELECTRICAL EQUIPMENT (IECEE)
CB SCHEME

SYSTEME CEI D'ESSAIS DE CONFORMITE ET DE CERTIFICATION
DES EQUIPEMENTS ELECTRIQUES (IECEE)
METHODE OC

CB TEST CERTIFICATE CERTIFICAT D'ESSAI OC

Product
Produit

Name and address of the applicant
Nom et adresse du demandeur

Name and address of the manufacturer
Nom et adresse du fabricant

Name and address of the factory
Nom et adresse de l'usine

Rating and principal characteristics
Valeurs nominales et caractéristiques principales

Trademark (if any)
Marque de fabrique (si elle existe)

Model / Type Ref.
Ref. de type

Additional information (if necessary)
Information complémentaire (si nécessaire)

A sample of the product was tested and found
to be in conformity with
*Un échantillon de ce produit a été essayé et a été
considéré conforme à la*

as shown in the Test Report Ref. No.
which forms part of this Certificate
*comme indiqué dans le Rapport d'essais numéro
de référence qui constitue partie de ce Certificat*

Component - Power Supply

SL POWER ELECTRONICS CORP
6050 KING DRIVE, BLDG. A
VENTURA, CA 93003, USA

SL POWER ELECTRONICS CORP
6050 KING DRIVE, BLDG. A
VENTURA, CA 93003, USA

SL POWER ELECTRONICS XIANGHE
ANPING ECONOMIC & TECH DEVELOPING ZONE
XIANGHE, HEBEI 065402, CHINA

Input: 100-240 V~, 50-60 Hz, 1.3A
Output: 12 Vdc, 5.25 A to 48 Vdc, 1.35 A, maximum 65 Watts.



MINT1065XY75CZ, where X is A or B, where Y is any number 12 through
48, where Z is any number 01 through 99, designates additional
configurations indicating non-safety related options.

This CB Test Report comprises 7 enclosures. The CB Test Report and Certificate
were amended on April 8, 2010 to add models, modify output ratings information,
clauses, tables and enclosures.

PUBLICATION

**IEC 60601-1 (1988) Second Edition,
with Amendment No. 1 (1991) and No. 2 (1995)** with the exception of:
Clause 36, Electromagnetic Compatibility, Clause 48, Biocompatibility and Clause
52.1, Programmable Electronic Systems. Inclusive of CENELEC Common
Modifications. See Test Report for National Differences.

E116994-A44-CB-1

This CB Test Certificate is issued by the National Certification Body
Ce Certificat d'essai OC est établi par l'Organisme National de Certification



**Underwriters
Laboratories**

Underwriters Laboratories Inc. / GMA Certification Department, US
333 Pfingsten Road, Northbrook, IL 60062-2096
United States of America
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email: jolanta.m.wroblewska@us.ul.com

Date: Issued: 2008 June 25
Amended: 2010 April 8 (Am. 1)

Signature:

Jolanta M. Wroblewska

COVER PAGE FOR TEST REPORT

Test Item Description:	Component - Power Supply
Model/Type Reference:	MINT1065XY75CZ, where X is A or B, where Y is any number 12 through 48, where Z is any number 01 through 99, designates additional configurations indicating non-safety related options.
Rating(s):	Input: 100-240 V~, 50-60 Hz, 1.3A Output: 12 Vdc, 5.25 A to 48 Vdc, 1.35 A, maximum 65 Watts.
Standards:	IEC 60601-1:1988 + A1:1991 + A2:1995
Applicant Name and Address:	SL POWER ELECTRONICS CORP 6050 KING DRIVE, BLDG. A VENTURA, CA 93003, USA
Factory Location(s):	SL POWER ELECTRONICS XIANGHE ANPING ECONOMIC & TECH DEVELOPING ZONE XIANGHE, HEBEI 065402, CHINA

This Report includes the following parts, in addition to this cover page:

1. Specific Technical Criteria
2. Clause Verdicts
3. Critical Components
4. Test Results
5. Enclosures
 - a. National Differences
 - b. Marking Plate
 - c. Photographs
 - d. Schematics + PWB
 - e. Manuals
 - f. Miscellaneous

The original report was modified on 2010-04-08 to include the following changes/additions:
Amendment 1:

Addition of Models MINT1065BY75CZ, where Y is any number 12 through 48, where Z is any number 01 through 99, designates additional configurations indicating non-safety related options.

Modified the following, based on the addition of the above models:

- Electrical Ratings corrected to indicate that the output ratings can be any voltage within the 12 Vdc to 48 Vdc range.
- Tables 7, 19, 20, and Critical Components
- Created Marking Plate - Enclosure. Added label for Model 1065B Series, and moved MINT1065A Series label from Enclosures - Miscellaneous
- General Product Information - Conditions of Acceptability, Product Description and Model Differences.
- Clauses: 14 (USA Difference); 5.1 (Class I & II); 6.1f; 6.1i; 6.1p; and 18l
- Enclosures - Photographs, PWB+Schematics, and Manual.
- Insulation Diagram and Table to Insulation Diagram.
- Markings and Instructions


All applicable tests according to the above standard(s) have been carried out.

Test results are valid only for the tested equipment.




This Test Report can be reproduced only in whole.

Amendments and corrections can be reproduced only with the original CB Test Report.

Written permission from Underwriters Laboratories Inc. is required if the test report is copied in part.

	Test Report issued under the responsibility of:	
Underwriters Laboratories Inc.		
TEST REPORT IEC 60601-1 Medical Electrical Equipment Part 1:General requirements for safety		
Report Reference No	E116994-A44-CB-1	
Date of issue	2008-06-23	
Total number of pages	16	
CB Testing Laboratory	Underwriters Laboratories Inc.	
Address	455 E. Trimble Rd., San Jose, CA, 95131-1230, USA	
Applicant's name	SL POWER ELECTRONICS CORP	
Address	6050 KING DRIVE, BLDG. A VENTURA, CA 93003, USA	
Test specification:		
Standard	IEC 60601-1:1988 + A1:1991 + A2:1995	
Test procedure	CB Scheme	
Non-standard test method	N/A	
Test Report Form No.	IEC60601_1c/97-04	
Test Report Form originator	Underwriters Laboratories Inc	
Master TRF	dated 97-04	
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If this test Report is used by non-IECEE members, the IECEE/IEC logo shall be removed.		
This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.		

Test item description	Component - Power Supply
Trade Mark	
Model/Type reference	MINT1065XY75CZ, where X is A or B, where Y is any number 12 through 48, where Z is any number 01 through 99, designates additional configurations indicating non-safety related options.
Manufacturer	SL POWER ELECTRONICS CORP 6050 KING DRIVE, BLDG. A VENTURA, CA 93003, USA
Rating	Input: 100-240 V~, 50-60 Hz, 1.3A Output: 12 Vdc, 5.25 A to 48 Vdc, 1.35 A, maximum 65 Watts.

Testing procedure and testing location:		
<input type="checkbox"/>	CB Testing Laboratory	
	Testing location / address..... :	
<input type="checkbox"/>	Associated CB Test Laboratory	
	Testing location / address..... :	
	Tested by (name + signature)	
	Approved by (+ signature)	
<input type="checkbox"/>	Testing Procedure: TMP	
	Tested by (name + signature)	
	Approved by (+ signature)	
	Testing location / address..... :	
<input type="checkbox"/>	Testing Procedure: WMT	
	Tested by (name + signature)	
	Witnessed by (+ signature)..... :	
	Approved by (+ signature)	
	Testing location / address..... :	
<input checked="" type="checkbox"/>	Testing Procedure: SMT	
	Tested by (name + signature)	Dan Mitchell 
	Approved by (+ signature)	Ahmad Daoudi 
	Supervised by (+ signature)	Denise Leung Klinker 
	Testing location / address..... :	SL Power Electronics Inc., 6050 King Drive Bldg A, Ventura, CA 93003
<input type="checkbox"/>	Testing Procedure: RMT	
	Tested by (name + signature)	
	Approved by (+ signature)	
	Supervised by (+ signature)	
	Testing location / address..... :	

Summary of Testing:

Unless otherwise indicated, all tests were conducted at SL Power Electronics Inc., 6050 King Drive Bldg A, Ventura, CA 93003.

Tests performed (name of test and test clause)	Testing location / Comments
Power Input (7.1) Dielectric Voltage Withstand (20.4) Humidity Preconditioning Treatment (44.5)	Conducted after Humidity Preconditioning Test

Summary of Compliance with National Differences:

AT, AU, BE, BR, CA, CH, CS, CZ, DE, DK, FI, FR, GB, GR, HU, IE, IL, IN, IT, KE, KR, NL, NO, PL, PT, RU, SE, SI, SK, TR, UA, US

Copy of Marking Plate - Refer to Enclosure titled Marking Plate for copy.

Test item particulars :			
Classification of installation and use		For building-in	
Supply connection		Header or Terminal Block or other options	
Accessories and detachable parts included in the evaluation		None	
Options included		None	
Possible test case verdicts:			
- test case does not apply to the test object		N / A	
- test object does meet the requirement		P(Pass)	
- test object does not meet the requirement		F(Fail)	
Abbreviations used in the report:			
- normal condition	N.C.	- single fault condition	S.F.C.
- operational insulation	OP	- basic insulation	BI
- basic insulation between parts of opposite polarity:	BOP	- supplementary insulation	SI
- double insulation	DI	- reinforced insulation	RI
Testing:			
Date(s) of receipt of test item		2010-02-10	
Date(s) of Performance of tests		2010-02-16 to 2010-03-01	
General remarks:			
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.			
List of test equipment must be kept on file and be available for review.			
"(see Enclosure #)" refers to additional information appended to the report. "(see appended table)" refers to a table appended to the report.			
Throughout this report a point is used as the decimal separator.			
Refer to the Cover Page For Test Report for a list of all Factory Locations.			

GENERAL PRODUCT INFORMATION:
Report Summary
The original report was modified on 2010-04-08 to include the following changes/additions: Amendment 1:
Addition of Models MINT1065BY75CZ, where Y is any number 12 through 48, where Z is any number 01 through 99, designates additional configurations indicating non-safety related options.
Modified the following, based on the addition of the above models:

- Electrical Ratings corrected to indicate that the output ratings can be any voltage within the 12 Vdc to 48 Vdc range.
- Tables 7, 19, 20, and Critical Components
- Created Marking Plate - Enclosure. Added label for Model 1065B Series, and moved MINT1065A Series label from Enclosures - Miscellaneous
- General Product Information - Conditions of Acceptability, Product Description and Model Differences.
- Clauses: 14 (USA Difference); 5.1 (Class I & II); 6.1f; 6.1I; 6.1p; and 18I
- Enclosures - Photographs, PWB+Schematics, and Manual.
- Insulation Diagram and Table to Insulation Diagram.
- Markings and Instructions

Product Description

The MINT1065AY75CZ Series (Class I type), and MINT1065BY75CZ Series (Class II type) are open-frame AC/DC power supplies, designed for building-in to an end-product.

Model Differences

The power supplies in the MINT1065XY75CZ Series are similar to each other and differ only in minor component changes in the secondary circuit and the number for windings for T1 to accommodate for the different output voltage and amps. The MINT1065XY75CZ Series are Class I or Class II type, and are available with different types of input and output connectors.

MINT1065BY75CZ Series (Class II) is identical to MINT1065AY75CZ (Class I) Series except the following components have been removed: CYP1, CYP2, CYP3, CYS1, the ground terminal (quick connect tab on PWB adjacent to input connector "CON1"), and jumper wire W1.

All models have one dc output.

The following are additional differences between Model MINT1065XY75CZ, where X is A or B, where Y is any number 12 through 48, where Z is any number 01 through 99.

MINT1065AY75CZ Series: A designates Class I type, Y suffix designates output voltages from 12 to 48 Vdc, Z suffix designates additional configurations indicating non-safety related options.

MINT1065BY75CZ Series: B designates Class II type, Y suffix designates output voltages from 12 to 48 Vdc, Z suffix designates additional configurations indicating non-safety related options.

Additional Information

The schematics for these models are kept on file at the CB Testing Laboratory mentioned in the first page of this test report, and can be provided by the manufacturer upon request by an accepting NCB.

CB Test certificates and proofs of compliance for components are included in Licenses Enclosure. In accordance with the current rules of the CB scheme, a CB Test certificate is required for critical components, and the certificate is effective for 3 years. Recognizing NCB may challenge the CBTC when a certificate is more than 3 years old, or when it is not provided.

Nameplate Labels provided in "Enclosures - Marking Plate", are representative of all Models and the Electrical Ratings of the entire series. The units can be configured to have a 12 Vdc to 48 Vdc output. with a

maximum 65 watt output. The output wattage rating on the label is optional, and is not provided on the labels shown in this report.

Technical Considerations

The product was investigated to the following additional standards: UL 60601-1, 1st Edition, 2006-04-26 (includes National Differences for USA), CAN/CSA-C22.2 No. 601.1-M90 (R2005) (includes National Differences for Canada), EN 60601-1: 1990 + A1:1993 + A2:1995, , (except EMC limitations, EN 60601-1-2, Biocompatibility, EN 10993-1, Programmable Electronic Systems, IEC 60601-1-4)

The product was not investigated to the following standards or clauses: Clause 36, Electromagnetic Compatibility (IEC 601-1-2), Clause 48, Biocompatibility (ISO 10993-1), Clause 52.1, Programmable Electronic Systems (IEC 601-1-4)

The product is Classified only to the following hazards: Casualty, Shock, Fire

The degree of protection against harmful ingress of water is: Ordinary

The following accessories were investigated for use with the product: None

The mode of operation is: Continuous

Software is relied upon for meeting safety requirements related to mechanical, fire and shock: No

The product is suitable for use in the presence of a flammable anesthetics mixture with air or oxygen or with nitrous oxide: No

Engineering Conditions of Acceptability

When installed in an end-product, consideration must be given to the following:

This component has been judged on the basis of the required spacings in the First Edition of the Standards for Medical Equipment, Part 1: General Requirements for Safety, UL60601-1 and CSA 22.2 No. 601.1, which covers the end use product for which the component is designed. --

The component shall be installed in compliance with the enclosure, mounting, spacings, casualty markings and segregation requirements of the end-use application. --

Consideration should be given to measuring the temperature on power electronic components and transformer windings when the power supply is installed in the end-use equipment. --

The input/output connectors are not acceptable for field connection, they are only intended for connection to mating connectors of internal wiring inside the end-use machine. the output circuits have not been evaluated for direct patient connection (Type B, BF or CF). --

MINT1065AY75CZ (Class I) models should be properly bonded to the ground in the end-use equipment. --

The temperature test was performed at room ambient of 25 °C and calculated for an ambient of 40 °C. --

Leakage Current testing should be repeated in the end-product application. --

The Power Transformer (T1) comply with Class B (130°C) limits. --

Model MINT1065AY75CZ Series: The integrity of the Protective Earth/Bonding connection shall considered in the end use product. --

DEMKO CERTIFICATE

Certificate No. 145534-02
Page 1/3
Date of Issue 2010-04-09

Certificate Holder SL POWER ELECTRONICS CORP
6050 KING DRIVE, BLDG. A
VENTURA, CA 93003, USA

Manufacturer SL POWER ELECTRONICS CORP
6050 KING DRIVE, BLDG. A
VENTURA, CA 93003, USA

Production site SL POWER ELECTRONICS XIANGHE
ANPING ECONOMIC & TECH DEVELOPING ZONE
XIANGHE, HEBEI 065402, CHINA

Certified Product Component - Power Supply
Model MINT1065XY75CZ, See Appendix

Trademark



Rated Voltage / Frequency 100-240 V~, 50-60 Hz

Rated Current / Power 1.3A

Insulation Class I

Degree of protection (IP) -

Tested acc. to EN 60601-1:1990 + A1:1993 + A2:1995

Test Report No. E116994-A44-CB-1 issue date 2008-06-23 and
amendment 1 dated 2010-04-08

Additional See appendix

Expire date 2012-06-01

Certification Manager

Jan-Erik Storgaard

Certification Body

The product and production sites listed on the certificate comply with the D-mark requirements and the UL Global Service Agreement, with reference to Terms and Conditions for the D mark. The Owner of the certificate is entitled to use the ® or for cables «DEMKO» for the products listed on the certificate and manufactured at the production sites listed. UL has to be informed in writing about any changes to the product or production site in accordance with the Term and Conditions of the D mark. The validity of the certificate is shortened if the EU legislation require re-testing and re-certification due to new standards or amendments coming into force before the expiry date.

UL International Demko A/S, Lyskaer 8, P.O. Box 514, DK-2730
Herlev, Denmark, Tel. +45 44 85 65 65, info.dk@dk.ul.com
www.ul-europe.com

Appendix DEMKO CERTIFICATE

Certificate No. 145534-02
Page 2/3
Date of Issue 2010-04-09

Additional

For building-in

Type key :where X is A or B, where Y is any number 12 through 48, where Z is any number 01 through 99, designates additional configurations indicating non-safety related options.

Output: 12 Vdc, 5.25 A to 48 Vdc, 1.35 A, maximum 65 Watts.

This certificate replaces the certificate No. 145534-01, dated 2008-07-10

UL International Demko A/S has issued a new certificate due to to add models, modify output ratings information, clauses, tables and enclosures.

The certificate has been issued on the basis of CB certificate (CB Test certificate) No. US/12756A/UL, issued by Underwriters Laboratories, dated 2010-04-08

Certification Body

UL International Demko A/S, Lyskaer 8, P.O. Box 514, DK-2730
Herlev, Denmark, Tel. +45 44 85 65 65, info.dk@dk.ul.com
www.ul-europe.com

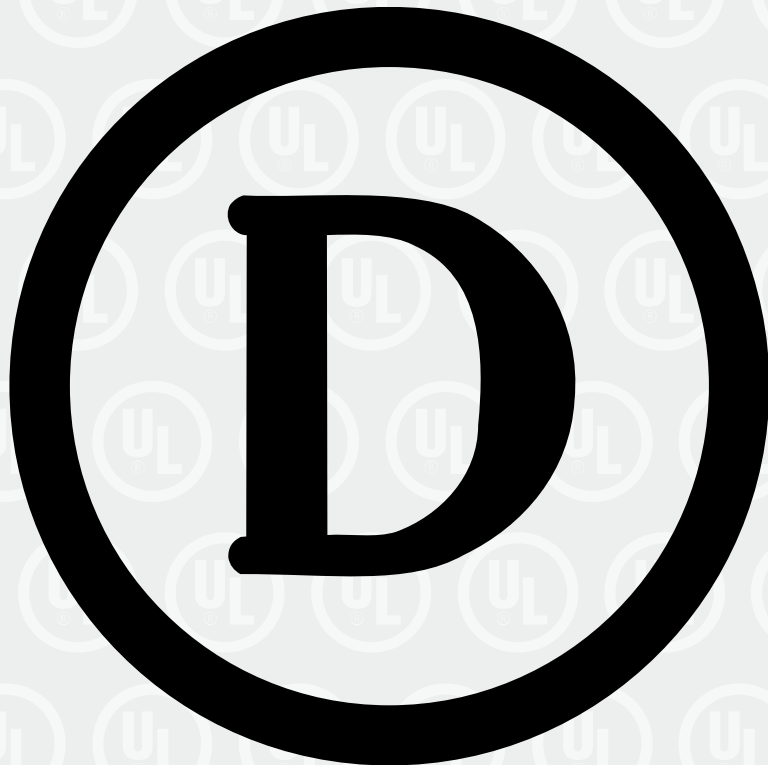


the standard in safety

Underwriters
Laboratories

Appendix DEMKO Certificate

Certification Mark	D-mark
Certificate No.	145534-02
Page	3/3
Date of Issue	2010-04-09



Certification Body

UL International Demko A/S, Lyskaer 8, P.O. Box 514, DK-2730
Herlev, Denmark, Tel. +45 44 85 65 65, info.dk@dk.ul.com
www.ul-europe.com

COVER PAGE FOR TEST REPORT

Product Category:	Power Supplies, Medical and Dental
Product Category CCN:	QQHM2, QQHM8
Test Procedure:	Component Recognition
Product:	Component - Power Supply
Model/Type Reference:	MINT1065XY75CZ, where X is A or B, where Y is any number 12 through 48, where Z is any number 01 through 99, designates additional configurations indicating non-safety related options.
Rating(s):	Input: 100-240 V~, 50-60 Hz, 1.3A Output: 12 Vdc, 5.25 A to 48 Vdc, 1.35 A, maximum 65 Watts.
Standards:	UL 60601-1, 1st Edition, 2006-04-26 (Medical Electrical Equipment, Part 1: General Requirements for Safety) CAN/CSA-C22.2 No. 601.1-M90, 2005 (Medical Electrical Equipment - Part 1: General Requirements for Safety)
Applicant Name and Address:	SL POWER ELECTRONICS CORP 6050 KING DRIVE, BLDG. A VENTURA, CA 93003, USA
This Report includes the following parts, in addition to this cover page:	
<ol style="list-style-type: none">1. Specific Inspection Criteria2. Specific Technical Criteria3. Clause Verdicts4. Critical Components5. Test Results6. National Differences7. Enclosures	

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.

UL authorizes the applicant to reproduce the latest pages of the referenced Test Report consisting of the first page of the Specific Technical Criteria through to the end of the Conditions of Acceptability.

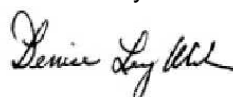
Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

Test Report By:



Ahmad Daoudi
Engineering Associate
Underwriters Laboratories Inc.

Reviewed By:





Denise Leung Klinker
Staff Engineer
Underwriters Laboratories Inc.

SPECIFIC INSPECTION CRITERIA

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


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 60601-1, 1st Edition, 2006-04-26 (Medical Electrical Equipment, Part 1: General Requirements for Safety).

Standard Clause	Clause Title	Marking or Instruction Details
6.1e	Company identification	Classified or Recognized company's name, Trade name, Trademark or File
6.1f	Model	Model number
6.1g	Supply Connection	Voltage range, ac/dc, phases if more than single phase
	Alternating current	
6.1h	Supply Frequency	Rated frequency range in hertz
6.1j	Power Input	Amps, VA, or Watts
6.1l	Class II equipment	
6.1p	Output	Rated output voltage, power, frequency.

BD1.0	Production-Line Testing Requirements			
BD1.1	Test Exemptions - The following models are exempt from the indicated test			
	Model	Grounding Continuity	Dielectric Voltage Withstand	Patient Circuit Dielectric Voltage Withstand
	MINT1065XY75CZ Series	Exempt	Exempt	Exempt
BD1.2	Solid-State Component Test Exemptions - The following solid-state components may be disconnected from the remainder of the circuitry during either Dielectric Voltage Withstand Test:			
	N/A			
BE1.0	Sample and Test Specifics for Follow-Up Tests at UL			
BE1.1	The following tests shall be conducted in accordance with the Generic Inspection Instructions			
	Model	Samples	Test	Test Details
	N/A	N/A	N/A	N/A

SPECIFIC TECHNICAL CRITERIA

TEST REPORT UL 60601-1 Medical Electrical Equipment Part 1: General requirements for safety	
Report Reference No	E116994-A44-UL-1
Compiled by	Ahmad Daoudi
Reviewed by	Denise Leung Klinker
Date of issue	2008-06-23
Standards	UL 60601-1, 1st Edition, 2006-04-26 (Medical Electrical Equipment, Part 1: General Requirements for Safety) CAN/CSA-C22.2 No. 601.1-M90, 2005 (Medical Electrical Equipment - Part 1: General Requirements for Safety)
Test procedure	Component Recognition
Non-standard test method	N/A
Test item description	Component - Power Supply
Trademark	
Model and/or type reference	MINT1065XY75CZ, where X is A or B, where Y is any number 12 through 48, where Z is any number 01 through 99, designates additional configurations indicating non-safety related options.
Rating(s)	Input: 100-240 V~, 50-60 Hz, 1.3A Output: 12 Vdc, 5.25 A to 48 Vdc, 1.35 A, maximum 65 Watts.

GENERAL INFORMATION		
Test item particulars (see also clause 5):		
Classification of installation and use	For building-in	
Supply connection	Header or Terminal Block or other options	
Accessories and detachable parts included in the evaluation	None	
Options included	None	
Possible test case verdicts:		
- test case does not apply to the test object	N / A	
- test object does meet the requirement	P(Pass)	
- test object does not meet the requirement	F(Fail) (acceptable only if a corresponding, less stringent national requirement is "Pass")	
Abbreviations used in the report:		
- normal condition	N.C. - single fault condition	S.F.C.
- operational insulation	OP - basic insulation	BI
- basic insulation between parts of opposite polarity:	BOP - supplementary insulation	SI
- double insulation	DI - reinforced insulation	RI
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	The MINT1065AY75CZ Series (Class I type), and MINT1065BY75CZ Series (Class II type) are open-frame AC/DC power supplies, designed for building-in to an end-product.
CC1.0	Model Differences
CC1.1	The power supplies in the MINT1065XY75CZ Series are similar to each other and differ only in minor component changes in the secondary circuit and the number for windings for T1 to accommodate for the different output voltage and amps. The MINT1065XY75CZ Series are Class I or Class II type, and are available with different types of input and output connectors. MINT1065BY75CZ Series (Class II) is identical to MINT1065AY75CZ (Class I) Series except the following components have been removed: CYP1. CYP2. CYP3. CYS1. the around terminal

	<p>(quick connect tab on PWB adjacent to input connector "CON1"), and jumper wire W1.</p> <p>All models have one dc output.</p> <p>The following are additional differences between Model MINT1065XY75CZ, where X is A or B, where Y is any number 12 through 48, where Z is any number 01 through 99.</p> <p>MINT1065AY75CZSeries: A designates Class I type, Y suffix designates output voltages from 12 to 48 Vdc, Z suffix designates additional configurations indicating non-safety related options.</p> <p>MINT1065BY75CZ Series: B designates Class II type, Y suffix designates output voltages from 12 to 48 Vdc, Z suffix designates additional configurations indicating non-safety related options.</p>	
CD1.0	Additional Information	
CD1.1	<p>The schematics for these models are kept on file at the CB Testing Laboratory mentioned in the first page of this test report, and can be provided by the manufacturer upon request by an accepting NCB.</p> <p>CB Test certificates and proofs of compliance for components are included in Licenses Enclosure. In accordance with the current rules of the CB scheme, a CB Test certificate is required for critical components, and the certificate is effective for 3 years. Recognizing NCB may challenge the CBTC when a certificate is more than 3 years old, or when it is not provided.</p> <p>Nameplate Labels provided in "Enclosures - Marking Plate", are representative of all Models and the Electrical Ratings of the entire series. The units can be configured to have a 12 Vdc to 48 Vdc output, with a maximum 65 watt output. The output wattage rating on the label is optional, and is not provided on the labels shown in this report.</p>	
CE1.0	Technical Considerations	
CE1.1	The product was investigated to the following additional standards:	UL 60601-1, 1st Edition, 2006-04-26 (includes National Differences for USA), CAN/CSA-C22.2 No. 601.1-M90 (R2005) (includes National Differences for Canada), EN 60601-1: 1990 + A1:1993 + A2:1995, , (except EMC limitations, EN 60601-1-2, Biocompatibility, EN 10993-1, Programmable Electronic Systems, IEC 60601-1-4)
CE1.2	The product was not investigated to the following standards or clauses:	Clause 36, Electromagnetic Compatibility (IEC 601-1-2), Clause 48, Biocompatibility (ISO 10993-1), Clause 52.1, Programmable Electronic Systems (IEC 601-1-4)
CE1.3	The product is Classified only to the following hazards:	Casualty, Shock, Fire
CE1.4	The degree of protection against harmful ingress of water is:	Ordinary
CE1.5	The following accessories were investigated for	None

	use with the product:	
CE1.6	The mode of operation is:	Continuous
CE1.7	Software is relied upon for meeting safety requirements related to mechanical, fire and shock:	No
CE1.8	The product is suitable for use in the presence of a flammable anesthetics mixture with air or oxygen or with nitrous oxide:	No
CF1.0	Engineering Conditions of Acceptability	
CF1.1	For use only in or with complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc. When installed in an end-product, consideration must be given to the following:	
CF2.0	This component has been judged on the basis of the required spacings in the First Edition of the Standards for Medical Equipment, Part 1: General Requirements for Safety, UL60601-1 and CSA 22.2 No. 601.1, which covers the end use product for which the component is designed.	--
CF2.1	The component shall be installed in compliance with the enclosure, mounting, spacings, casualty markings and segregation requirements of the end-use application.	--
CF2.2	Consideration should be given to measuring the temperature on power electronic components and transformer windings when the power supply is installed in the end-use equipment.	--
CF2.3	The input/output connectors are not acceptable for field connection, they are only intended for connection to mating connectors of internal wiring inside the end-use machine. the output circuits have not been evaluated for direct patient connection (Type B, BF or CF).	--
CF2.4	MINT1065AY75CZ (Class I) models should be properly bonded to the ground in the end-use equipment.	--
CF2.5	The temperature test was performed at room ambient of 25 °C and calculated for an ambient of 40 °C.	--
CF2.6	Leakage Current testing should be repeated in the end-product application.	--
CF2.7	The Power Transformer (T1) comply with Class B (130°C) limits.	--
CF2.8	Model MINT1065AY75CZ Series: The integrity	--

	of the Protective Earth/Bonding connection shall considered in the end use product.	
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