

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

Built-in Power Supply

Name and address of the applicant
Nom et adresse du demandeur

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

Name and address of the manufacturer
Nom et adresse du fabricant

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

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

1. INDUSTRIAS S L S A DE C V
COSTA RICA #60 COL CUAHUTEMOC MEXICALI BC MEXICO
1. SL POWER ELECTRONICS XIANGHE
ANPING ECONOMIC & TECH DEVELOPING ZONE
XIANGHE HEBEI 065402 CHINA

Rating and principal characteristics
Valeurs nominales et caractéristiques principales

For rating see Information on page 2

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



Type of Manufacturer's Testing Laboratories used
Type de programme du laboratoire d'essais constructeur

SMT

Model / Type Ref.
Ref. de type

SP1852G and GNT4WXYZ-XXXG, GNT424CBE-115G and
MINT1400VWXYZ. For more information see second page of this
certificate

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

The CB Test Report comprises 2 enclosures. The CB Test Certificate and Report
were amended on January 31, 2011 to add new model.

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

IEC 60950-1 (2005) Second Edition,
Additionally evaluated to EN60950-1 (2006) with Am. 11 (2009) to include Group
and National Differences for European countries; other National Differences also
specified in the CB Test Report.

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

E135803-A34-CB-3

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
TEL INT* +1 847 664 3008, FAX INT* +1 847 313 3008
email: jolanta.m.wroblewska@us.ul.com

Date: Issued: 2010 August 23
Amended: 2011 January 31 (Am. 1)

Signature:

Jolanta M. Wroblewska

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

Models:

SP1852G and GNT4WXYZ-XXXG, where W represents the output voltage which may be any number from 12 thru 48; X indicates the type of input connector which may be the letters A, B or C; Y indicates the type of output connector which may be the letter B or T; Z indicates the type of cover or cover/fan options which may be blank or the letter E or T; -XXX indicates value added configurations that have no impact on safety which may be any number from 001 thru 999; suffix "-103" indicates improved EMI circuit; suffix "-112" indicates use of low-speed fan mounted on top of cover.

GNT424CBE-115G and MINT1400VWXYZ, where V indicates the design version which may be the letter A to indicate standard mini cover or C to indicate optional cover/fan; W represents the output voltage which may be any number from 12 thru 48; X indicates the type of output connector which may be any number from 01 thru 99; Y indicates the type of input connector which may be the letter L; Z indicates the configuration options which may be the number 01 for standard configuration or 02 thru 99 for modifications that have no impact on safety.

Ratings:

Model GNT4WXYZ-XXXG:

Input: 100-240 V ac, 5.5-2.5 A, 50/60 Hz

Output: 12 thru 48 V dc, 400 W maximum with forced air cooling.

Model SP1852G:

Input: 100-240 V ac, 5.0-2.0 A, 50/60 Hz

Output: +24 V dc/12.5 A maximum with forced air cooling

Model GNT424CBE-115G:

Input: 100-240 V ac, 5.5-2.5 A, 50/60 Hz

Output: +24 V dc/15.6 A maximum with forced air cooling.

Model MINT1400VWXYZ:

Input: 100-240 V ac, 5.5-2.5 A, 50/60 Hz

Output: 12 thru 48 V dc, 400 W maximum with internal forced air cooling or minimum 27 CFM external forced air cooling or 195 W maximum with convection cooling or 250 W maximum with convection cooling and unit mounted to aluminum plate.

Additional information (if necessary)

Information complémentaire (si nécessaire)

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

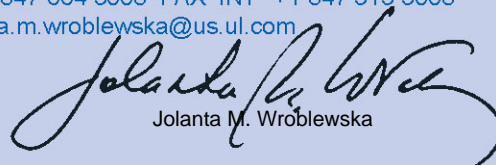
United States of America

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email: jolanta.m.wroblewska@us.ul.com

Date: Issued: 2010 August 23
Amended: 2011 January 31 (Am. 1)

Signature:



Jolanta M. Wroblewska

UL TEST REPORT AND PROCEDURE

Standard: UL 60950-1, 2nd Edition, 2007-03-27 (Information Technology Equipment - Safety - Part 1: General Requirements)
CSA C22.2 No. 60950-1-07, 2nd Edition, 2007-03 (Information Technology Equipment - Safety - Part 1: General Requirements)

Certification Type: Component Recognition

CCN: QQQQ2, QQQQ8 (Power Supplies for Information Technology Equipment Including Electrical Business Equipment)

Product: Built-in Power Supply

Model: SP1852G and GNT4WXYZ-XXXG, where W represents the output voltage which may be any number from 12 thru 48; X indicates the type of input connector which may be the letters A, B or C; Y indicates the type of output connector which may be the letter B or T; Z indicates the type of cover or cover/fan options which may be blank or the letter E or T; -XXX indicates value added configurations that have no impact on safety which may be any number from 001 thru 999; suffix "-103" indicates improved EMI circuit; suffix "-112" indicates use of low-speed fan mounted on top of cover.

GNT424CBE-115G and MINT1400VWXYZ, where V indicates the design version which may be the letter A to indicate standard mini cover or C to indicate optional cover/fan; W represents the output voltage which may be any number from 12 thru 48; X indicates the type of output connector which may be any number from 01 thru 99; Y indicates the type of input connector which may be the letter L; Z indicates the configuration options which may be the number 01 for standard configuration or 02 thru 99 for modifications that have no impact on safety.

Rating:

Model GNT4WXYZ-XXXG:
Input: 100-240 V ac, 5.5-2.5 A, 50/60 Hz
Output: 12 thru 48 V dc, 400 W maximum with forced air cooling.

Model SP1852G:
Input: 100-240 V ac, 5.0-2.0 A, 50/60 Hz
Output: +24 V dc/12.5 A maximum with forced air cooling

Model GNT424CBE-115G:
Input: 100-240 V ac, 5.5-2.5 A, 50/60 Hz
Output: +24 V dc/15.6 A maximum with forced air cooling.

Model MINT1400VWXYZ:
Input: 100-240 V ac, 5.5-2.5 A, 50/60 Hz

Output: 12 thru 48 V dc, 400 W maximum with internal forced air cooling or minimum 27 CFM external forced air cooling or 195 W maximum with convection cooling or 250 W maximum with convection cooling and unit mounted to aluminum plate.

Applicant Name and Address: SL POWER ELECTRONICS CORP BLDG A 6050 KING ST VENTURA CA 93003 UNITED STATES
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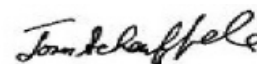
This is to certify that representative samples of the products covered by this Test Report have been investigated in accordance with the above referenced Standards. The products have been found to comply with the requirements covering the category and the products are judged to be eligible for Follow-Up 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.

Prepared by: Tom Scheuffele
Underwriters Laboratories Inc.



Reviewed by: David Feusier
Underwriters Laboratories Inc.



Supporting Documentation

The following documents located at the beginning of this Procedure supplement the requirements of this Test Report:

- A. Authorization - The Authorization page may include additional Factory Identification Code markings.
- B. Generic Inspection Instructions -
 - i. Part AC details important information which may be applicable to products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of this Test Report.
 - ii. Part AE details any requirements which may be applicable to all products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of each Test Report.
 - iii. Part AF details the requirements for the UL Certification Mark which is not controlled by the technical standard used to investigate these products. Products are permitted to bear only the Certification Mark(s) corresponding to the countries for which it is certified, as indicated in each Test Report.

Product Description

Models SP1852G, MINT1400VWXYZ, GNT424CBE-115G, and GNT400 Series are component switch-mode power supplies intended to be built into an end product. Models SP1852G input/output connections are via PCB edge fingers connector on the end equipment. Models MINT1400VWXYZ, GNT424CBE-115G, and GNT400 Series are provided with input/output connectors for connection to the end use equipment.

Model Differences

The power supplies in the GNT400 Series are similar to each other and differ only in secondary circuit for the different outputs. The power supplies MINT1400VWXYZ Series are similar to the GNT4WXYZ-XXXG Series with some minor improvements. The chassis has no slots, aluminum blocks are bolted to the cover between transformer T5 & cover and between C60, C65 and the cover, insulator gap pad between the cover and primary heatsink top, added A4 PWB connected to the output and bolted to the cover, and added cover/fan option.

The GNT400 Series is available with three different types of input connector and two different type of output connector. Also, there are two different cover/fan options; option E with fan mounted on end and includes an appliance inlet for the input, option T with fan mounted on top; suffix "-112" is an option used with option T to indicate use of low-speed fan mounted on top of cover..

Model GNT424CBE-115G is identical to Model GNT424CBEG (from the GNT 400 Series) except for the following:

1. The AC inlet is replaced with an AC/EMI Inlet Filter.
2. The DC fan is mounted to reverse the airflow direction - (airflow exhausts)
3. A flange (front cover mounting plate) is added at the AC Inlet/Fan for mounting use in end-product.
4. Secondary output conductors/connector is provided.
5. The 24 Vdc rated output is reduced to 15.6 A (375 W).

The SP1852G is a custom power supply, which is a repackaged GNT424ABG. The power supply is provided with two DC fans designed to turn on only when the Primary heatsink is greater than 85 °C. The power supply is also cooled with a fan (rated 44 CFM) provided in the end equipment.

The following are the various options for the GNT4WXYZ-XXXG:

W = Main Output from 12 thru 48
12 = 12 V dc/33.3 A
15 = 15 V dc/26.7 A

24 = 24 V dc/16.7 A
28 = 28 V dc/14.3 A
36 = 36 V dc/11.1 A
48 = 48 V dc/8.4 A

X = Input Connectors A, B, or C
A = Eby P/N 5002-03-N-12
B = Phoenix Contact P/N 1732034 (GMKDSP 3/3)
C = Amp P/N MTA-156 Series

Y = Output Connectors
B = Bussbars
T = Phoenix Contact P/N 1731721

Z = Cover Options
Blank = Standard Mini Cover
E = Cover with Vertically Mounted Fan on End When used, AC inlet is used (Schurter P/N 6100.3100) and input connector X is C by default.
T = Cover with Horizontally Mounted Fan on Top

-XXX = Value added configurations that have no impact on safety which may be any number from 001 thru 999

-103 = Indicates improved EMI circuit (See Enclosures 5-13 and 5-14 for details)

-112 = Option used with option T to indicate use of low-speed fan mounted on top of cover.

G = Compliance to RoHS

For all Models: G suffix indicates compliance to RoHS. (ROHS compliance has not been evaluated by UL.)

The MINT1400VWXYZ Series is available with the following:

V = Cover Options
A = Standard Mini Cover
C = Cover with Fan Mounted on Top

W = Main Output from 12 thru 48
12 = 12 V dc/33.3 A
15 = 15 V dc/ 26.7 A
24 = 24 V dc/16.7 A
28 = 28 V dc/14.3 A
36 = 36 V dc/11.1 A
48 = 48 V dc/8.4 A

X = Output Connectors 01 thru 99

Y = Input Connectors L
L = Eby P/N 5002-03-N-12

Z = Configuration Options 01 or 02 thru 99
01 = Standard Model

02 thru 99 = Added option not effecting safety

Technical Considerations

- Equipment mobility : for building-in
- Connection to the mains : pluggable A for models with option E and Model GNT424CBE-115G. All other no direct connection to mains.
- Operating condition : continuous
- Access location : N/A
- Over voltage category (OVC) : OVC II
- Mains supply tolerance (%) or absolute mains supply values : +6%, -10%
- Tested for IT power systems : Yes, considered
- IT testing, phase-phase voltage (V) : 230
- Class of equipment : Class I (earthed)
- Considered current rating (A) : 5.5 to 2
- Pollution degree (PD) : PD 3
- IP protection class : IP X0
- Altitude of operation (m) : Model SP1852G 2000 m all others 3000 m
- Altitude of test laboratory (m) : 42.7
- Mass of equipment (kg) : 1.2
- The product was submitted and evaluated for use at the maximum ambient temperature (T_{ma}) permitted by the manufacturer's specification of: Tested at 40°C but product can be operated at higher ambient. Consult factory for application with convection cooling and usage at higher operating ambient temperature. Model SP1852G was submitted and tested at 50 °C ambient.
- The product is intended for use on the following power systems: TN and IT
- The product was investigated to the following additional standards: EN 60950-1:2006+ A11:2009

(which includes all European national differences, including those specified in this test report).

- The following are available from the Applicant upon request: Installation (Safety) Instructions / Manual.
- The equipment disconnect device is considered to be: Appliance Inlet for models with option E and GNT424CBE-115G. All other models disconnect device is provided on the end equipment (AC inlet provided), which should be evaluated in the end application.

Engineering Conditions of Acceptability

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:

- The end-product Electric Strength Test is to be based upon a maximum working voltage of: Primary-Earthed Dead Metal: 328 Vrms, 428 Vpk
- The following secondary output circuits are SELV: All
- The following secondary output circuits are at hazardous energy levels: All
- The investigated Pollution Degree is: 2
- Proper bonding to the end-product main protective earthing termination is: Required
- The following end-product enclosures are required: Electrical, Fire
- This power supply has been evaluated for use in a 40°C ambient. An additional evaluation should be made if the power supply is intended to be used in an elevated ambient. Model SP1852G has been evaluated for use in a 50 °C ambient.
- A Heating Test should be conducted in the end-product. Consideration should be given to measuring the temperature on power electronic components, inductors and transformer windings when the power supply is installed in the end-use equipment. All inductors and transformers comply with a min. Class F (155°C) limit.
- The input connector for Models with option "E", and Model GNT424CBE-115G, has been evaluated for field connection and all other models the input/output are not acceptable for field connection, they are only intended for connection to mating connectors of internal wiring inside the end-use machine. The acceptability of this and the mating connectors relative to secureness, insulating materials, and temperature shall be considered in the end-product evaluation.
- All tests were conducted with internal R/C (JDYX2) fuses, rated T 6.3 A, 250 V, and a 20 A external

circuit breaker. Fuses located on both line and neutral side of the input.

- The GNT400 and MINT1400VWXYZ input and output are isolated from each other by Reinforced insulation. Model SP1852G, which is isolated from input to output by Basic insulation only at the input/output PWB due to the grounding of the output return in the end application. Reinforced insulation is provided in all other location; i.e. A1 and A2 PWB, T5, T6, U7, U11, and U13.
- The PWB is rated minimum 130 °C.
- Installation Instructions can be found at the SL Power Electronics website at www.slpower.com or can be requested by mail from SL Power Electronics Corp., 6050 King Drive, Bldg. A, Ventura, CA. 93003, U.S.A.
- Since the Models GNT424CBE-115G, GNT4WXYZ-XXXG and MINT1400VWXYZ will be operating at maximum 3000 meter (10000 feet) elevation, based on IEC 60664, the clearance requirement is 1.14 times the clearance requirement at elevation of 3000 meter specified in IEC 60950-1. The correction factor is based on barometric pressure of 70kPa and Overvoltage Category II. If the calculated clearance exceeded the creepage, the creepage was adjusted to the value of clearance. Model SP1852G evaluated for only up to 2000 meters.
- The maximum investigated branch circuit rating is: 20 A
- The following Production-Line tests are conducted for this product: Earthing Continuity on models with option E, and Model GNT424CBE-115G. Electric Strength
- The following magnetic devices (e.g. transformers or inductor) are provided with an OBJ2 insulation system with the indicated rating greater than Class A (105°C): T5, T6, T100 (Class F, 155°C)
- The maximum continuous power supply output (Watts) relied on forced air cooling from: 400 W, with fan rated at 8.0 cfm mounted on the cover of the GNT400 power supply with option E and T (see photos for location). Model GNT424CBE-115G has a maximum power of 375 W with fan rated at 8.0 cfm mounted on the cover with the airflow exhausting. Model SP1852G has a maximum continuous power of 300 W with forced air cooling provided in the end equipment, and two fans on the power supply designed to turn on only when the Primary heatsink is great than 85 °C. The MINT1400VWXYZ with fan/cover option C rated 400 watts maximum was relied on with integral fan rated at 17 cfm mounted on the cover (see photos for location) or with mini cover option A rated 400 watts maximum was relied on with external forced air cooling rated at 27 cfm minimum to be provided in the end equipment or rated 195 watts maximum with convection cooling or rated 250 watts maximum with convection cooling with unit mounted to aluminum plate (minimum surface area 150 sq in).
- The equipment is suitable for direct connection to: AC mains supply on Models with option "E", and Model GNT424CBE-115G..
- The power supply terminals and/or connectors are: Not investigated for field wiring
- The following components require special consideration during end-product Thermal (Heating) tests

due to the indicated maximum temperature measurements during component-level testing: T5 coil (111°C), PWB by Q28, Q29 (100°C).

Additional Information

This report is a reissue of CBTR Ref. No.E135803-A34-CB-2, CB Test Certificate Ref. No. US/14127A/UL. Based on review of the testing previously conducted, review of current photos, and confirmation that no changes have been made by the Applicant, it was determined that the products continue to comply with the standard. A review of the product was not considered necessary. The "Test Performance Date" noted, is the date of completion of the documentation review.

The schematics for these models are kept in 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 NCBs.

The nameplate label provided in Enclosures - Marking Plate is considered representative of all models in this report. The output ratings, if provided, maybe provided on a separate label. See Enclosures - Marking Plate, designated "13-03" for an example of the separate output rating marking.

Additional Standards

The product fulfills the requirements of: EN 60950-1:2006 + A11:2009

Markings and instructions

Clause Title	Marking or Instruction Details
Power rating - Ratings	Ratings (voltage, frequency/dc, current)
Power rating - Company identification	Listee's or Recognized company's name, Trade Name, Trademark or File Number
Power rating - Model	Model Number
Fuses - Rating	Rated current and voltage and type located on or adjacent to fuse or fuseholder.

Special Instructions to UL Representative

Power supply. Models MINT1400VWXYZ and GNT4WXYZ-XXXG Series described in this report have the same model number/construction as the power supplies described in Report Ref. # E116994-A33.

DEMKO CERTIFICATE

Certificate No. 151792-02
Page 1/3
Date of Issue 2011-02-03

Certificate Holder SL POWER ELECTRONICS CORP
BLDG A 6050 KING ST
VENTURA CA 93003
UNITED STATES

Manufacturer SL POWER ELECTRONICS CORP
BLDG A 6050 KING ST
VENTURA CA 93003
UNITED STATES

Production site See appendix

Certified Product Built-in Power Supply
Model See appendix

Trademark



Rated Voltage / Frequency See appendix

Rated Current / Power See appendix

Insulation Class I

Degree of protection (IP) X0

Tested acc. to EN 60950-1:2006 + A11:2009

Test Report No. E135803-A34-CB-3 issue date 2010-08-23 with
Amendment 1 issue date 2011-01-31

Additional for building-in

Testing done under the Supervised Manufacturer's
Premises (SMT) procedure

Expire date 2013-03-01

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 δ 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.

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Herlev, Denmark, Tel. +45 44 85 65 65, info.dk@dk.ul.com
www.ul-europe.com

Appendix DEMKO CERTIFICATE

Certificate No. 151792-02
Page 2/3
Date of Issue 2011-02-03

Model:

SP1852G and GNT4WXYZ-XXXG, where W represents the output voltage which may be any number from 12 thru 48; X indicates the type of input connector which may be the letters A, B or C; Y indicates the type of output connector which may be the letter B or T; Z indicates the type of cover or cover/fan options which may be blank or the letter E or T; -XXX indicates value added configurations that have no impact on safety which may be any number from 001 thru 999; suffix "-103" indicates improved EMI circuit; suffix "-112" indicates use of low-speed fan mounted on top of cover.

GNT424CBE-115G and MINT1400VWXYZ, where V indicates the design version which may be the letter A to indicate standard mini cover or C to indicate optional cover/fan; W represents the output voltage which may be any number from 12 thru 48; X indicates the type of output connector which may be any number from 01 thru 99; Y indicates the type of input connector which may be the letter L; Z indicates the configuration options which may be the number 01 for standard configuration or 02 thru 99 for modifications that have no impact on safety.

Ratings:

Model GNT4WXYZ-XXXG:

Input: 100-240 V ac, 5.5-2.5 A, 50/60 Hz

Output: 12 thru 48 V dc, 400 W maximum with forced air cooling.

Model SP1852G:

Input: 100-240 V ac, 5.0-2.0 A, 50/60 Hz

Output: +24 V dc/12.5 A maximum with forced air cooling

Model GNT424CBE-115G:

Input: 100-240 V ac, 5.5-2.5 A, 50/60 Hz

Output: +24 V dc/15.6 A maximum with forced air cooling.

Model MINT1400VWXYZ:

Input: 100-240 V ac, 5.5-2.5 A, 50/60 Hz

Output: 12 thru 48 V dc, 400 W maximum with internal forced air cooling or minimum 27 CFM external forced air cooling or 195 W maximum with convection cooling or 250 W maximum with convection cooling and unit mounted to aluminum plate.

Production Site:

INDUSTRIAS S L S A DE C V

COSTA RICA #60 COL CUAHUTEMOC MEXICALI BC MEXICO

SL POWER ELECTRONICS XIANGHE

ANPING ECONOMIC & TECH DEVELOPING ZONE XIANGHE HEBEI 065402 CHINA

Certification Body

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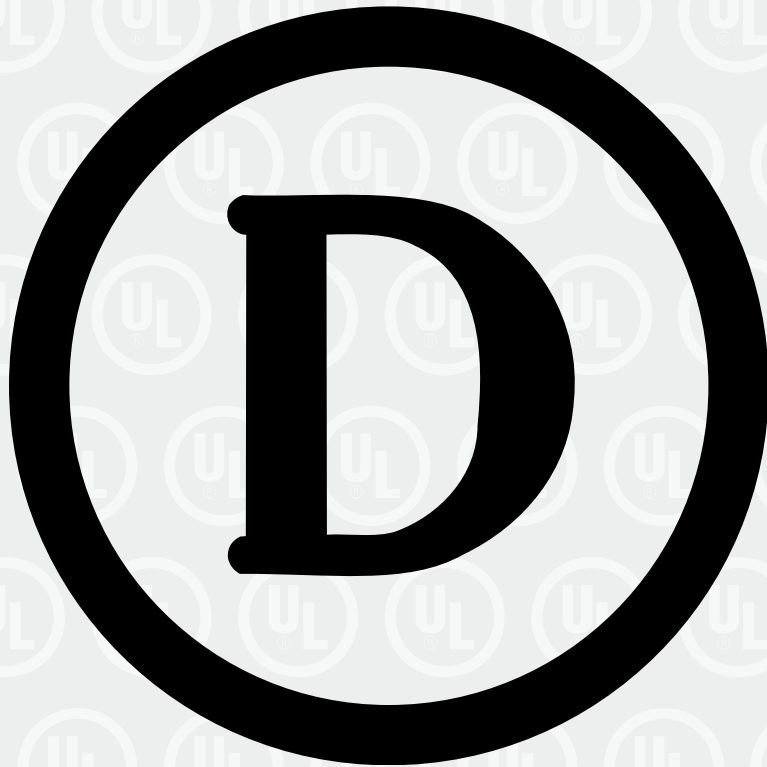
Appendix DEMKO Certificate

Certification Mark	D-mark
Certificate No.	151792-02
Page	3/3
Date of Issue	2011-02-03

This certificate replaces the certificate No. 151792-01, dated 2010-08-25.

UL International Demko A/S has issued a new certificate due to adding a model.

The certificate has been issued on the basis of CB certificate (CB Test certificate) No. US/15541A/UL, issued by Underwriters Laboratories Inc., dated 2011-01-31.



Certification Body

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