

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

SYSTEME CEI D'ACCEPTATION MUTUELLE DE CERTIFICATS D'ESSAIS DES EQUIPEMENTS ELECTRIQUES (IECEE) METHODE OC

CB TEST CERTIFICATE

CERTIFICAT D'ESSAI OC

Product
Produit

Switching Power Supply

Name and address of the applicant
Nom et adresse du demandeur

BRIDGEPOWER CORP
(GOSAEK-DONG) 16 OMOKCHEN-RO 132BEON-GIL
GWONSEON-GU
SUWON-SI GYEONGGI 441-813 KOREA

Name and address of the manufacturer
Nom et adresse du fabricant

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

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

BRIDGEPOWER CORP
(GOSAEK-DONG) 16 OMOKCHEN-RO 132BEON-GIL
GWONSEON-GU SUWON-SI GYEONGGI 441-813
KOREA

Note: When more than one factory, please report on page 2
Note: Lorsque il y plus d'une usine, veuillez utiliser la 2^{ème} page

Ratings and principal characteristics
Valeurs nominales et caractéristiques principales

Additional Information on page 2
BX090XYXX, XE90XYXXXXXX series;
Input Rating: 100-240 Vac, 50-60 Hz, 1.3 A
Output Rating: 12 Vdc, 7.5A or
15 Vdc, 6.0A or
18 Vdc, 5.0A or
24 Vdc, 3.75A or
48 Vdc, 1.87A or
12Vdc/7.5A~48Vdc /1.87A

Trademark (if any)
Marque de fabrique (si elle existe)
Type of Manufacturer's Testing Laboratories used
Type de programme du laboratoire d'essais constructeur

SL POWER ELECTRONICS

Model / Type Ref.
Ref. De type

BX090XYXX, XE90XYXXXXXX
See Page 2

Additional information (if necessary may also be reported on page 2)
Les informations complémentaires (si nécessaire,, peuvent être indiqués sur la 2^{ème} page

Class I (earthed)
 Additional Information on page 2

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(ed.2), IEC 60950-1(ed.2);am1, IEC 60950-1(ed.2);am2

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

E300305-A115-CB-1 issued on 2016-04-07

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



- UL (US), 333 Pflingsten Rd IL 60062, Northbrook, USA
- UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK
- UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
- UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

Date: 2016-04-07
Original Issue Date: 2015-12-31

Signature:

Jan-Erik Storgaard

For full legal entity names see www.ul.com/ncbnames



Ref. Certif. No.

DK-50953-M1-UL

Model Details:

BX090XYXX,XE90XYXXXXXX (Where X may be alphanumeric characters, "for marketing purpose and no impact safety related to critical components and constructions", where YY may be any number 12 through 48)

Factories:

WENDENG JEIL ELECTRONICS CO LTD
2, XIAMEN ROAD, WENDENG ECONOMIC DEVELOPMENT ZONE, WEIHAI CITY, SHANDONG PROVINCE
CHINA

Additional Information:

Additionally evaluated to EN 60950-1:2006 /A11:2009 /A1:2010 /A12:2011/ A2:2013.

National Difference specified in the CB Test Report.

The original report was modified to include the following changes/additions:

- 1. Correct critical component list due to missing
- 2. Add photo due to missing

Additional information (if necessary)

Information complémentaire (si nécessaire)



- UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
- UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK
- UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
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CB TEST CERTIFICATE

CERTIFICAT D'ESSAI OC

Product
Produit

Switching Power Supply

Name and address of the applicant
Nom et adresse du demandeur

BRIDGEPOWER CORP
(GOSAEK-DONG) 16 OMOKCHEN-RO 132BEON-GIL
GWONSEON-GU
SUWON-SI GYEONGGI 441-813 KOREA

Name and address of the manufacturer
Nom et adresse du fabricant

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

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

BRIDGEPOWER CORP
(GOSAEK-DONG) 16 OMOKCHEN-RO 132BEON-GIL
GWONSEON-GU SUWON-SI GYEONGGI 441-813
KOREA

Note: When more than one factory, please report on page 2
Note: Lorsque il y plus d'une usine, veuillez utiliser la 2^{ème} page

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Valeurs nominales et caractéristiques principales

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Output Rating: 12 Vdc, 7.5A or
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18 Vdc, 5.0A or
24 Vdc, 3.75A or
48 Vdc, 1.87A or
12Vdc/7.5A~48Vdc /1.87A

Trademark (if any)
Marque de fabrique (si elle existe)
Type of Manufacturer's Testing Laboratories used
Type de programme du laboratoire d'essais constructeur

SL POWER ELECTRONICS

Model / Type Ref.
Ref. De type

BX090XYXX, XE90XYXXXXXX
See Page 2

Additional information (if necessary may also be reported on page 2)
Les informations complémentaires (si nécessaire,, peuvent être indiqués sur la 2^{ème} page

Class II (double insulated)
 Additional Information on page 2

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(ed.2), IEC 60950-1(ed.2);am1, IEC 60950-1(ed.2);am2

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

E300305-A115-CB-1 issued on 2016-04-07

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Ce Certificat d'essai OC est établi par l'Organisme **National de Certification**



- UL (US), 333 Pflingsten Rd IL 60062, Northbrook, USA
- UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK
- UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
- UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

Date: 2016-04-07
Original Issue Date: 2015-12-31

Signature:

Jan-Erik Storgard

For full legal entity names see www.ul.com/ncbnames



Ref. Certif. No.

DK-50954-M1-UL

Model Details:

BX090XYYX,XE90XYYXXXXX (Where X may be alphanumeric characters, "for marketing purpose and no impact safety related to critical components and constructions", where YY may be any number 12 through 48)

Factories:

WENDENG JEIL ELECTRONICS CO LTD
2, XIAMEN ROAD, WENDENG ECONOMIC DEVELOPMENT ZONE, WEIHAI CITY, SHANDONG PROVINCE
CHINA

Additional Information:

Additionally evaluated to EN 60950-1:2006 /A11:2009 /A1:2010 /A12:2011/ A2:2013.

National Difference specified in the CB Test Report.

The original report was modified to include the following changes/additions:

- 1. Correct critical component list due to missing
- 2. Add photo due to missing

Additional information (if necessary)

Information complémentaire (si nécessaire)



- UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
- UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK
- UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
- UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

For full legal entity names see www.ul.com/ncbnames

Date: 2016-04-07
Original Issue Date: 2015-12-31

Signature:

Jan-Erik Storgaard



Test Report issued under
the responsibility of:



TEST REPORT
IEC 60950-1
Information technology equipment - Safety -
Part 1: General requirements

Report Reference No : E300305-A115-CB-1

Date of issue : 2015-12-31

Total number of pages : 17

CB Testing Laboratory : UL Korea, Ltd.

Address : #808, Manhatan Building, 36-2 Yeouido-Dong, Yeongdeungpo-Gu,
Seoul 150-749, Korea

Applicant's name : BRIDGEPOWER CORP
(GOSAEK-DONG) 16 OMOKCHEN-RO 132BEON-GIL

Address : GWONSEON-GU
SUWON-SI GYEONGGI 441-813 KOREA

Test specification:

Standard : IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013

Test procedure : CB Scheme

Non-standard test method : N/A

Test Report Form No. : IEC60950_1F

Test Report Form originator : SGS Fimko Ltd

Master TRF : Dated 2014-02

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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.

General disclaimer

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 CB Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.

Test item description	Switching Power Supply
Trade Mark	SL POWER ELECTRONICS
Manufacturer	SL POWER ELECTRONICS CORP BLDG A 6050 KING DR VENTURA CA 93003 UNITED STATES
Model/Type reference	BX090XYXX, XE90XYXXXXX, (Where X may be alphanumeric characters, "for marketing purpose and no impact safety related to critical components and constructions", where YY may be any number 12 through 48)
Ratings	BX090XYXX, XE90XYXXXXX series; Input Rating: 100-240 Vac, 50-60 Hz, 1.3 A Output Rating: 12 Vdc, 7.5A or 15 Vdc, 6.0A or 18 Vdc, 5.0A or 24 Vdc, 3.75A or 48 Vdc, 1.87A or 12Vdc/7.5A~48Vdc /1.87A

Testing procedure and testing location:	
<input checked="" type="checkbox"/> CB Testing Laboratory	
Testing location / address	UL Korea, Ltd. #808, Manhattan Building, 36-2 Yeouido-Dong, Yeongdeungpo-Gu, Seoul 150-749, Korea
<input type="checkbox"/> Associated CB Test Laboratory	
Testing location / address	
Tested by (name + signature)	InYoung Hwang 
Approved by (name + signature).....	HyeongKyun Park 
<input type="checkbox"/> Testing Procedure: TMP/CTF Stage 1	
Testing location / address	
Tested by (name + signature)	
Approved by (name + signature).....	
<input type="checkbox"/> Testing Procedure: WMT/CTF Stage 2	
Testing location / address	
Tested by (name + signature)	
Witnessed by (name + signature) ...	
Approved by (name + signature).....	
<input type="checkbox"/> Testing Procedure: SMT/CTF Stage 3 or 4	
Testing location / address	
Tested by (name + signature)	
Approved by (name + signature).....	
Supervised by (name + signature) ..	
<input type="checkbox"/> Testing Procedure: RMT	
Testing location / address	
Tested by (name + signature)	
Approved by (name + signature).....	
Supervised by (name + signature) ..	

List of Attachments
National Differences (0 pages)
Enclosures (7 pages)
Summary of Testing:
No tests were conducted
Summary of Compliance with National Differences:
Countries outside the CB Scheme membership may also accept this report.

Issue Date: 2015-12-31

Page 4 of 17

Report Reference #

E300305-A115-CB-1

Correction 2 2016-04-07

List of countries addressed: AU, CA, CN, DK, EU, GB, JP, KR, NO, NZ, SG, US

The product fulfills the requirements of: N/A

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

Test item particulars :	
Equipment mobility	movable
Connection to the mains	pluggable A
Operating condition	continuous
Access location	operator accessible
Over voltage category (OVC)	OVC II
Mains supply tolerance (%) or absolute mains supply values	+10%, -10%
Tested for IT power systems	Yes (for Norway only)
IT testing, phase-phase voltage (V)	230 Vac
Class of equipment	Class I (earthed) or Class II (double insulated)
Considered current rating of protective device as part of the building installation (A)	20
Pollution degree (PD)	PD 2
IP protection class	IP 22
Altitude of operation (m)	Up to 5000m
Altitude of test laboratory (m)	N/A
Mass of equipment (kg)	520
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)
Testing:	
Date(s) of receipt of test item	N/A
Date(s) of Performance of tests	N/A
General remarks:	
<p>"(see Enclosure #)" refers to additional information appended to the report. "(see appended table)" refers to a table appended to the report.</p> <p>Throughout this report a point is used as the decimal separator.</p>	
Manufacturer's Declaration per Sub Clause 4.2.5 of IEC 60335-1:	
<p>The application for obtaining a CB Test Certificate includes more than one factory and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided</p> <p>When differences exist, they shall be identified in the General Product Information section.</p>	
Name and address of Factory(ies):	BRIDGEPOWER CORP (GOSAEK-DONG) 16 OMOKCHEN-RO 132BEON-GIL GWONSEON-GU SUWON-SI GYEONGGI 441-813 KOREA WENDENG JEIL ELECTRONICS CO LTD

2, XIAMEN ROAD, WENDENG ECONOMIC DEVELOPMENT
ZONE, WEIHAI CITY, SHANDONG PROVINCE, CHINA

GENERAL PRODUCT INFORMATION:

Report Summary

The original report was modified on 2016-04-07 to include the following changes/additions:
4787320810(E300305-A115-CB-1, Correction2)

- Correct critical component list due to missing
- Add photo due to missing

Product Description

Switching Mode Power Supply(AC/DC adaptor), consists of electronic components mounted on PWB, a switching transformer and electronic components mounted on PWB, housed with a plastic enclosure.

Model Differences

Models XE90 series is identical to models BX090 series except for model designation.

Nomenclature

B X 090 X YY X

(a) (b) (c) (d)

(a) Family Related Designs

X is A-Z

(b) Output

X is S (S=Single)

(c) Output Voltage

12, 15, 18, 24, 48, 12 through 48

(d) Standard Input Cord Options

Can be F or Q or N for input plug type. Photographs for each plug-type configuration

F : (Class I = IEC320-C14)

Q: (Class II = IEC320-C18)

N: ((Class II = IEC320-C8)

XE 90 X YY XX X XX

(a) (b) (c) (d) (e) (f)

(a) Family Related Designs

X is A-Z

(b) AC Ground Configuration

A to Z (Standard)

(c) Output Voltage

12, 15, 18, 24, 48, 12 through 48

(d) Standards Output Cord Options

Number : 00 thru 99

(e) Standard Input Connector Options

Can be F or Q or N for input plug type. Photographs for each plug-type configuration

F : (Class I = IEC320-C14)

Q: (Class II = IEC320-C18)

N: ((Class II = IEC320-C8)

(f) Model Configuration
Number : 00 thru 99

Additional Information

4787147602(E300305-A115-CB-1)
Max. Normal Load Condition: Rated output current

4787162462(E300305-A115-CB-1, Correction1)
- Correct critical component list due to missing
- Add photo due to missing

4787320810(E300305-A115-CB-1, Correction2)
- Correct critical component list due to missing
- Add photo due to missing

Technical Considerations

- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: 40
- The means of connection to the mains supply is: Detachable power cord
- The product is intended for use on the following power systems: TN
- The equipment disconnect device is considered to be: , Appliance inlet
- The product was investigated to the following additional standards: EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 (which includes all European national differences, including those specified in this test report).

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

Indicate used abbreviations (if any)