

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
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^{eme} page

Additional Information on page 2
See Page 2

Ratings and principal characteristics
Valeurs nominales et caractéristiques principales

SL POWER ELECTRONICS

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

CTF Stage 1

Model / Type Ref.
Ref. De type

BX010XYXX, BX020XYXX, XE10XYXXXXXX, XE20XYXXXXXX,
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^{eme} page

Additionally evaluated to EN 60950-1:2006/ A1:2010/ A11:2009/ A12:2011/ A2:2013; National Differences specified in the CB Test Report.

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-A107-CB-1 issued on 2015-08-28

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 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

Date: 2015-08-31

Signature:

Jan-Erik Storgaard

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



Ref. Certif. No.

DK-48133-UL

Model Details:

BX010YXX, BX020YXX, XE10YXX, XE20YXX (Where X may be alphanumeric, "for marketing purpose and no impact safety related critical components and constructions", where YY may any number 05 through 48)

Factories:

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

Ratings:

Input Rating: 100-240 Vac, 50-60 Hz, 0.5 A

Output Rating: 5 Vdc, 2.0A/3.0A or

5.9Vdc, 1.67A/2.5A or

7.5Vdc, 1.33A/2.0A

9 Vdc, 1.33A/2.0A or

12 Vdc, 1.0A/1.5A or

15 Vdc, 0.8A/1.2A or

18 Vdc, 0.67A / 1.0A or

24 Vdc, 0.5A / 0.83A or

48 Vdc, 0.25 A./ 0.42A or

5Vdc/3.0A~48Vdc /0.25A

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: 2015-08-31

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-A107-CB-1

Date of issue : 2015-08-28

Total number of pages : 77

CB Testing Laboratory : UL Korea, Ltd.

Address : #808, Manhattan 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

Copyright © 2014 Worldwide System for Conformity Testing and Certification of Electrotechnical Equipment and Components (IECEE), Geneva, Switzerland. All rights reserved.

This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.


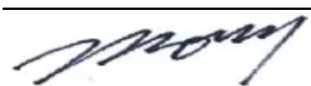
If this test Report is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.

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.

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 BLDG A 6050 KING DR VENTURA CA 93003 UNITED STATES
Model/Type reference	BX020YYX, XE20YYXXXXX, BX010YYX, XE10YYXXXXX (Where X may be alphanumeric, "for marketing purpose and no impact safety related critical components and constructions", where YY may any number 05 through 48)
Ratings	BX020YYX, XE20YYXXXXX, BX010YYX, XE10YYXXXXX series; Input Rating: 100-240 Vac, 50-60 Hz, 0.5 A Output Rating: 5 Vdc, 2.0A/3.0A or 5.9Vdc, 1.67A/2.5A or 7.5Vdc, 1.33A/2.0A 9 Vdc, 1.33A/2.0A or 12 Vdc, 1.0A/1.5A or 15 Vdc, 0.8A/1.2A or 18 Vdc, 0.67A / 1.0A or 24 Vdc, 0.5A / 0.83A or 48 Vdc, 0.25 A./ 0.42A or 5Vdc/3.0A~48Vdc /0.25A

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 (name + signature).....: _____
<input checked="" type="checkbox"/>	Testing Procedure: TMP/CTF Stage 1 Testing location / address: BRIDGEPOWER CORP (GOSAEK-DONG) 16 OMOKCHEN-RO 132BEON-GIL GWONSEON-GU SUWON-SI GYEONGGI 441-813 KOREA Tested by (name + signature): InYoung Hwang  Approved by (name + signature).....: SeungTae Kim 
<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 (37 pages)	
Enclosures (183 pages)	
Summary Of Testing	
Unless otherwise indicated, all tests were conducted at BRIDGEPOWER CORP (GOSAEK-DONG) 16 OMOKCHEN-RO 132BEON-GIL GWONSEON-GU SUWON-SI GYEONGGI 441-813 KOREA.	
Tests performed (name of test and test clause)	Testing location / Comments

End Product Reference Page
General Guidelines
Guide Information Page - Maximum Output Voltage,
Current, and Volt Ampere Measurement (1.2.2.1)
Input: Single-Phase (1.6.2)
Durability of Marking (1.7.11)
Capacitance Discharge (2.1.1.7)
SELV Reliability Test Including Hazardous Voltage
Measurements (2.2.2, 2.2.3, 2.2.4, Part 22 6.1)
Limited Current Circuit Measurement (2.4.1, 2.4.2)
Limited Power Source Measurements (2.5)
Protective Bonding II (2.6.3.4, 2.6.1)
Humidity (2.9.1, 2.9.2, 5.2.2)
Determination of Working Voltage; Working Voltage
Measurement (2.10.2)
Thin Sheet Material (2.10.5.9, 2.10.5.10, 2.10.5.6)
Transformer and Wire /Insulation Electric Strength
(2.10.5.13)
Steady Force (4.2.1 - 4.2.4)
Impact (4.2.5, 4.2.1, Part 22 10.2)
Drop (4.2.6, 4.2.1)
Stress Relief (4.2.7, 4.2.1)
Direct Plug-In Equipment-Moment (4.3.6)
Heating (4.5.1, 1.4.12, 1.4.13)
Ball Pressure (4.5.5, 4.5)
Touch Current (Single-Phase; TN/TT System) (5.1, Annex
D)
Electric Strength (5.2.2)
Component Failure (5.3.1, 5.3.4, 5.3.7)
Transformer Abnormal Operation (5.3.3, 5.3.7b, Annex
C.1)
Power Supply Output Short-Circuit/Overload (5.3.7)

Summary of Compliance with National Differences:

Countries outside the CB Scheme membership may also accept this report.

List of countries addressed: AU, CA, CN, DK, EU, GB, NO, NZ, 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	N/A
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)	160g

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	2015-02-24, 2015-06-01
Date(s) of Performance of tests	2015-03-18 to 2015-06-01

General remarks:

"(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.

Manufacturer's Declaration per Sub Clause 4.2.5 of IEC 60950-1:

Yes

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

When differences exist, they shall be identified in the General Product Information section.

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

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

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 XE20 series is identical to models BX020 series except for model designation.

Models XE10 series is identical to models BX010 series except for model designation.

Models BX010 series is identical to models BX020 series except for model designation and rated output current (See power supply reference page for detail).

Nomenclature

B X 020 X YY X, B X 010 X YY X

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

(a) Family Related Designs

X is A-Z

(b) Output

X is S (S=Single)

(c) Output Voltage

05, 06, 07, 09, 12, 15, 18, 24, 48 , 05 through 48

(d) Standard Input Cord Options

F : (Class I = IEC320-C14)

Q: (Class II = IEC320-C18)

N: ((Class II = IEC320-C8)

XE 10 X YY XX X XX, XE 20 X YY XX X XX

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

05, 06, 07, 09, 12, 15, 18, 24, 48 , 05 through 48

(d) Standards Output Cord Options

Number : 00 thru 99

(e) Standard Input Connector Options

F : (Class I = IEC320-C14)

Q: (Class II = IEC320-C18)

N: ((Class II = IEC320-C8)
 (f) Model Configuration
 Number : 00 thru 99

Additional Information

4787045069
 Max. Normal Load Condition: Rated output current

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: Plug, 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).
- The following circuit locations (with circuit/schematic designation) were investigated as a limited power source (LPS): All outputs

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)