

DK-48086-UL

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

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

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

Ratings and principal characteristics Valeurs nominales et caractéristiques principales

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

Model / Type Ref. Ref. De type

Additional information (if necessary may also be reported on page 2)
Les informations complémentaires (si nécessaire,,

peuvent être indiqués sur la 2_{ème} page

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

CERTIFICAT D'ESSAI OC

Switching Power Supply

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

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

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

Additional Information on page 2
See Page 2

SL POWER ELECTRONICS

BX050XYYX, BX060XYYX, XE50XYYXXXXX, XE60XYYXXXXX See Page 2

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

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

E300305-A108-CB-1 issued on 2015-08-27

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



Date: 2015-08-27

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

Signature:



DK-48086-UL

Model Details:

BX050XYYX,BX060XYYX,XE50XYYXXXXX,XE60XYYXXXXX (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, 1.5 A Output Rating: 5 Vdc, 6 A/7A or 9 Vdc, 5A/6A or

12 Vdc, 4.2 A/5A or 15 Vdc, 3.36 A/4A or 18 Vdc, 2.8 A / 3.4A or 24 Vdc, 2.1A / 2.7A or 48 Vdc, 1.1 A./ 1.3A 5Vdc/7A~48Vdc/1.1A

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: 2015-08-27

Signature: U
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-A108-CB-1

Date of issue: 2015-08-27

Total number of pages 72

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.

Issue Date: 2015-08-27 Page 2 of 72 Report Reference # E300305-A108-CB-1

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 BX060XYYX, XE60XYYXXXXX, BX050XYYX, XE50XYYXXXXX

(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 BX060XYYX, XE60XYYXXXXX, BX050XYYX, XE50XYYXXXXX

series;

Input Rating: 100-240 Vac, 50-60 Hz, 1.5 A

Output Rating: 5 Vdc, 6 A/7A or

9 Vdc, 5A/6A or 12 Vdc, 4.2 A/5A or 15 Vdc, 3.36 A/4A or 18 Vdc, 2.8 A / 3.4A or 24 Vdc, 2.1A / 2.7A or 48 Vdc, 1.1 A./ 1.3A 5Vdc/7A~48Vdc/1.1A Issue Date: 2015-08-27 Page 3 of 72 Report Reference # E300305-A108-CB-1

Testin	g procedure and testing location:	
[x]	CB Testing Laboratory	
	Testing location / address: UL Korea, Ltd. #808, Manha Dong, Yeongdeungpo-Gu, S	
[]	Associated CB Test Laboratory	
	Testing location / address:	
	Tested by (name + signature): InYoung Hwang	1
	Approved by (name + signature): SeungTae Kim	Mond
[]	Testing Procedure: TMP/CTF Stage 1	
	Testing location / address:	
	Tested by (name + signature):	
	Approved by (name + signature):	
[]	Testing Procedure: WMT/CTF Stage 2	
	Testing location / address:	
	Tested by (name + signature):	
	Witnessed by (name + signature):	
	Approved by (name + signature):	
[]	Testing Procedure: SMT/CTF Stage 3 or 4	
	Testing location / address:	
	Tested by (name + signature):	
	Approved by (name + signature):	
	Supervised by (name + signature) .:	
[]	Testing Procedure: RMT	
	Testing location / address:	
	Tested by (name + signature):	
	Approved by (name + signature):	
	Supervised by (name + signature) .:	

List of Attachments

National Differences (21 pages)

Enclosures (88 pages)

Summary Of Testing

Unless otherwise indicated, all tests were conducted at UL Korea, Ltd. #808, Manhatan Building, 36-2 Yeouido-Dong, Yeongdeungpo-Gu, Seoul 150-749, Korea.

Tests performed (name of test and test clause)

Testing location / Comments

Issue Date: 2015-08-27 Page 4 of 72 Report Reference # E300305-A108-CB-1

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)

Strain Relief (3.2.6, 4.2.1, 4.2.7)

Steady Force (4.2.1 - 4.2.4)

Impact (4.2.5, 4.2.1, Part 22 10.2)

Stress Relief (4.2.7, 4.2.1)

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: AT, CN, DK, EU, GB, NO

The product fulfills the requirements of: N/A

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

Issue Date: 2015-08-27 Page 5 of 72 Report Reference # E300305-A108-CB-1

Test item particulars :

Equipment mobility movable

Connection to the mains pluggable A

Operating condition continuous

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

Altitude of operation (m) Up to 5000m

Possible test case verdicts:

Testing:

Date(s) of Performance of tests 2015-02-10 to 2015-02-25

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 IECEE 02:

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

Issue Date: 2015-08-27 Page 6 of 72 Report Reference # E300305-A108-CB-1

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 XE60 series is identical to models BX060 series except for model designation.

Models XE50 series is identical to models BX050 series except for model designation.

Models BX050 series is identical to models BX060 series except for model designation and rated output current (See power supply reference page for detail).

Nomenclature

(a) Family Related Designs

X is A-Z

(b) Output

X is S (S=Single)

(c) Output Voltage

05, 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))

(a) Family Related Designs

X is A-Z

(b) AC Ground Configuration

A to Z (Standard)

(c) Output Voltage

05, 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)

Issue Date: 2015-08-27 Page 7 of 72 Report Reference # E300305-A108-CB-1

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

Additional Information

(4787045072)E300305-A108-CB-1

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: 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): 12 Vdc, 15 Vdc, 16 Vdc, 18 Vdc, 24 Vdc and 48 Vdc 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:	ВОР	- supplementary insulation	SI	
- double insulation	. DI	- reinforced insulation	RI	
Indicate used abbreviations (if any)				