

DK-89832-UL

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

CB TEST CERTIFICATE

Product AC/DC Adaptor

Name and address of the applicant BRIDGEPOWER CORP.

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

Name and address of the manufacturer SL POWER ELECTRONICS CORP

BLDG A 6050 KING DR VENTURA, CA93003 USA

Name and address of the factory WENDENG JEIL ELECTRONICS CO LTD

XIAMEN ROAD NO.2 WENDENG ECONOMIC DEVELOPMENT

ZONE WEIHAI CITY SHANDONG PROVINCE

CHINA

Additional Information on page 2

Ratings and principal characteristics Input: AC100-240V~ 50-60Hz 0.7A (0.7A-0.4A)

Output: (Main) DC5Vdc 2.4A (USB) DC5Vdc 2.4A

Trademark / Brand (if any)

Note: When more than one factory, please report on page 2

None

Type of Customer's Testing Facility (CTF) Stage used

Model / Type Ref. (1)E30D(2)(3)(4)(5), B(1)030D(2)(4)

See Page 2

Additional information (if necessary may also be

reported on page 2)

Additionally evaluated to EN 62368-1:2014 / A11: 2017; 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

IEC 62368-1:2014

As shown in the Test Report Ref. No. which forms part

of this Certificate

E300305-S19O-015-1 issued on 2019-11-05

This CB Test Certificate is issued by the National Certification Body



Date: 2019-11-20

Signature:

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



DK-89832-UL

Model Details:

(1)E30D(2)(3)(4)(5) and B(1)030D(2)(4)

(Where (1), (2), (3), (4), (5) may alphanumeric, "For marketing purpose and no impact safety related critical components and constructions")

- (1) Family Related Designs: A to Z
- (2) Output: 05
- (3) Standards Output Cord Options Number: 00 thru 99
- (4) Standard Input Connector Options : F Class I appliance inlet type (IEC320-C14)
- (5) Model Configuration Number: 00 thru 99

Factories:

BRIDGEPOWER VINA CO LTD

LOT B9 THUY VAN INDUSTRIAL ZONE VIET TRI CITY PHU THO PROVINCE VIETNAM

BRIDGEPOWER CORP

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

Additional information (if necessary)



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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

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

Date: 2019-11-20

Signature: Jan-Erik Storgaard





TEST REPORT IEC 62368-1

Audio/video, information and communication technology equipment Part 1: Safety requirements

Report Number: E300305-S19O-015-1

Applicant's name BRIDGEPOWER CORP.

Address (GOSAEK-DONG) 16 OMOKCHEN-RO 132BEON-GIL

GWONSEON-GU SUWON-SI GYEONGGI 441-813 KOREA

Test specification:

Standard.....: IEC 62368-1:2014 (Second Edition)

Test procedure: CB Scheme

Non-standard test method: N/A

Test Report Form No.: IEC62368 1B

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If this Test Report Form 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:	AC/DC Adaptor	
Trade Mark:	None	
Manufacturer:	SL POWER ELECTRONICS CORP BLDG A 6050 KING DR VENTURA, CA93003 USA	
Model/Type reference:	(1)E30D(2)(3)(4)(5) and B(1)030D(2)(4) (Where (1), (2), (3), (4), (5) may alphanumeric, "For marketing purpose and no impact safety related critical components and constructions")	
Ratings:	Input: AC100-240V~ 50-60Hz 0.7A (0.7A-0.4A) Output: (Main) DC5V=== 2.4A (USB) DC5V=== 2.4A	
Testing procedure and testing location:		
CB Testing Laboratory:	UCS Co., Ltd.	
Testing location/ address:	#702, Anyang Megavalley, 268 Hagui-ro, Dongan-gu, Anyang-si, Gyeonggi-do, 14056, KOREA.	
Associated CB Testing Laboratory:		
Testing location/ address		
Tested by (name + signature):	YunSeok Jin, Project Handler	Jarys
Approved by (name + signature):	YongBok Lee, Project Reviewer	July 1
☐ 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):		

List of Attachments (including a total number of pages in each attachment):

Attachment 1: 10 pages (European group differences and national differences EN 62368-1:2014+A11:2017)

Attachment 2: 46 pages (National differences)

Attachment 3: 5 pages (Photographs)

Summary of testing:

Tests performed (name of test and test clause):

5.2 Classification and limits of electrical energy sources

5.4.1.8 Determination of working voltage

5.4.1.10.3 Ball pressure test

5.4.2 Clearances

5.4.3 Creepage distances

5.4.8 Humidity conditioning

5.4.9 Electric strength test

5.7.2.1 Measurement of touch current

6.2.2.2 Power measurement for worst-case load fault

6.2.2.3 Power measurement for worst-case source fault

6.4.3.3 Single Fault Conditions test

B.2.5 Input test

B.3.5 Maximum load at output terminals

F.3.10 Permanence of markings

G.5.3.3 Overload test of Transformers

G.10.2 Resistor test

T.2 Steady force test, 10 N

T.3 Steady force test, 30 N

T.4 Steady force test, 250 N

T.6 Enclosure impact test

T.8 Stress relief test

Testing location:

UCS Co., Ltd./

#702, Anyang Megavalley, 268 Hagui-ro, Dongan-gu, Anyang-si, Gyeonggi-do, 14056, KOREA.

Summary of compliance with National Differences:

List of countries addressed: European group differences and national differences, AUSTRALIA / NEW ZEALAND, DENMARK, ITALY, JAPAN, SWEDEN, USA, CANADA

☐ The product fulfils the requirements of IEC 62368-1:2014 and EN 62368-1:2014+A11:2017
 (insert standard number and edition and delete the text in parenthesis or delete the whole sentence if not applicable)

Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

MEDICAL POWER SUPPLY

MODEL ME30D0502F02

INPUT:100-240 V~, 50-60 Hz, 0.7 A(0.7 A-0.4 A)

OUTPUT 1 (MAIN): +5 V===, 2.4 A OUTPUT 2 (USB) : +5 V ---, 2.4 A

IP20













SL POWER ELECTRONICS CORP MADE IN CHINA

TEST ITEM PARTICULARS:	
Classification of use by	☑ Ordinary person☐ Instructed person☐ Skilled person☐ Children likely to be present
Supply Connection:	 ✓ AC Mains ☐ DC Mains ✓ External Circuit - not Mains connected – ✓ ES1 ☐ ES2 ☐ ES3
Supply % Tolerance:	
Supply Connection – Type:	 □ pluggable equipment type A - □ non-detachable supply cord □ appliance coupler □ direct plug-in □ mating connector □ pluggable equipment type B - □ non-detachable supply cord □ appliance coupler □ permanent connection □ mating connector □ other:
Considered current rating of protective device as part of building or equipment installation:	20 A Installation location: ☐ building; ☐ equipment
Equipment mobility:	□ movable □ hand-held □ transportable □ stationary □ for building-in □ direct plug-in □ rack-mounting □ wall-mounted
Over voltage category (OVC):	□ OVC I □ OVC II □ OVC III □ OVC IV □ other:
Class of equipment:	☐ Class II ☐ Class III
Access location:	☐ restricted access location ☐ N/A
Pollution degree (PD):	☐ PD 1
Manufacturer's specified maxium operating ambient:	40 °C
IP protection class:	☐ IPX0 ⊠ IP20
Power Systems ::	
Altitude during operation (m):	☐ 2000 m or less
Altitude of test laboratory (m):	☐ 2000 m or less
Mass of equipment (kg):	☑ 0.3 kg
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 of receipt of test item	2019-10-04	
Date (s) of performance of tests	2019-10-04 to 2019-11-04	
GENERAL REMARKS:		
"(See Enclosure #)" refers to additional informatio "(See appended table)" refers to a table appended t Throughout this report a ☐ comma / ☒ point is us	o the report.	
	seu as the decimal separator.	
Manufacturer's Declaration per sub-clause 4.2.5 of	ECEE 02:	
The application for obtaining a CB Test Certificate includes more than one factory location 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	✓ Yes☐ Not applicable	
When differences exist; they shall be identified in the General product information section.		
Name and address of factory (ies):	1) WENDENG JEIL ELECTRONICS CO LTD XIAMEN ROAD NO.2 WENDENG ECONOMIC DEVELOPMENT ZONE WEIHAI CITY SHANDONG PROVINCE CHINA 2) BRIDGEPOWER VINA CO LTD LOT B9 THUY VAN INDUSTRIAL ZONE VIET TRI CITY PHU THO PROVINCE VIETNAM 3) BRIDGEPOWER CORP (GOSAEK-DONG) 16 OMOKCHEN-RO 132BEON-GIL GWONSEON-GU SUWON-SI GYEONGGI 441-813 KOREA	
GENERAL PRODUCT INFORMATION:		
Product Description – 1) The products were tested to be suitable for co 2) The unit is approved for MEDICAL POWER S	nnection to 20 A branch circuit in series. UPPLY by UL Demko (Cerifi. no. DK-87464-UL).	
Model Differences –		
The (1)E30D(2)(3)(4)(5) are basic model. The B(1)030D(2)(4) are identical to the (1)E30D(2)(3)(4)(5) except for model designation.		
The below information is nomenclature detail for (1)E30D(2)(3)(4)(5) and B(1)030D(2)(4) (1) Family Related Designs: A to Z (2) Output: 05 (3) Standards Output Cord Options Number: 00 thru 99 (4) Standard Input Connector Options: F - Class I appliance inlet type (IEC320-C14) (5) Model Configuration Number: 00 thru 99		
Additional application considerations – (Considerations used to test a component or sub-assembly) –		

When installing, all requirements of IEC 62368-1:2014 and EN 62368-1:2014+A11:2017 should be

IEC62368_1B

fulfilled.

ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:

(Note 1: Identify the following six (6) energy source forms based on the origin of the energy.)

(Note 2: The identified classification e.g., ES2, TS1, should be with respect to its ability to cause pain or injury on the body or its ability to ignite a combustible material. Any energy source can be declared Class 3 as a worse case classification e.g. PS3, ES3.

Electrically-caused injury (Clause 5):

(Note: Identify type of source, list sub-assembly or circuit designation and corresponding energy source classification)

Example: +5 V dc input ES1

Source of electrical energy	Corresponding classification (ES)
Primary circuit	ES3
Output (Main): 5Vdc	ES1
Output (USB): 5Vdc	ES1

Electrically-caused fire (Clause 6):

(Note: List sub-assembly or circuit designation and corresponding energy source classification)

Example: Battery pack (maximum 85 watts): PS2

Source of power or PIS	Corresponding classification (PS)
Primary circuit	PS3
Output circuit	PS1

Injury caused by hazardous substances (Clause 7)

(Note: Specify hazardous chemicals, whether produces ozone or other chemical construction not addressed as part of the component evaluation.)

Example: Liquid in filled component Glycol

Source of hazardous substances	Corresponding chemical
N/A	N/A
N/A	N/A

Mechanically-caused injury (Clause 8)

(Note: List moving part(s), fan, special installations, etc. & corresponding MS classification based on Table 35.) Example: Wall mount unit MS2

Source of kinetic/mechanical energy	Corresponding classification (MS)
Sharp edges and corners	MS1
Equipment mass	MS1

Thermal burn injury (Clause 9)

(Note: Identify the surface or support, and corresponding energy source classification based on type of part, location, operating temperature and contact time in Table 38.)

Example: Hand-held scanner – thermoplastic enclosure TS1

Source of thermal energy	Corresponding classification (TS)
Accessible surfaces which is touched occasionally for very	TS1
short periods	

N/A	N/A
Radiation (Clause 10)	
(Note: List the types of radiation present in the product and the corresponding energy source classification.) Example: DVD – Class 1 Laser Product RS1	
Type of radiation	Corresponding classification (RS)
N/A	N/A
N/A	N/A