	Ref. Certif. No.
	DK-4415

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

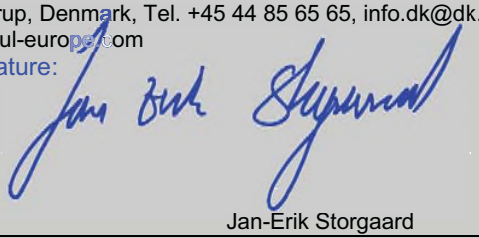
Product Produit	AC-DC Adaptor
Name and address of the applicant Nom et adresse du demandeur	BRIDGEPOWER CORP 964 GOSAEK-DONG GWONSEON-GU SUWON-SI GYEONGGI-DO 441-813 KOREA
Name and address of the manufacturer Nom et adresse du fabricant	BRIDGEPOWER CORP 964 GOSAEK-DONG GWONSEON-GU SUWON-SI GYEONGGI-DO 441-813 KOREA
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*	See Page 2
Ratings and principal characteristics Valeurs nominales et caractéristiques principales	Rated Input: 100-240 Vac, 50-60Hz, 2.0 A. Rated Output: +12V/7.5A, +13V/6.92A, +15V/6.4A, +16V/6.0A, +18V/5.6A, +19V/5.2A or +24V/4.2A.
Trademark (if any) Marque de fabrique (si elle existe)	None
Type of Manufacturer's Testing Laboratories used Type de programme du laboratoire d'essais constructeur	
Model / Type Ref. Ref. De type	J(1)W1100(2)(3)(4)(5)F(6), (1)ENB1100(3)(4)(5)F(6), See Page 2
Additional information (if necessary may also be reported on page 2) Les informations complémentaires (si nécessaire,, peuvent être indiqués sur la 2ème page	Also investigated to EN 60601-1:2006
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 60601-1(ed.3)
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	E302267-20110919 issued on 2011-09-19

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 International Demko A/S, Borupvang 5A, DK-2750
Ballerup, Denmark, Tel. +45 44 85 65 65, info.dk@dk.ul.com
www.ul-europe.com

Signature:



Jan-Erik Storgaard

Date: 2011-09-19

	Ref. Certif. No.
	DK-4415

Model Details:

J(1)W1100(2)(3)(4)(5)F(6), (1)ENB1100(3)(4)(5)F(6);
(1) can be C, M or P for family related designs.
(2) may be A to Z for customer option.
(3) may be A to Z according to design revision.
(4) may be 12, 13, 15, 16, 18, 19 or 24 according to output voltage.
(5) may be 00 to 99 according to the shape of output connector.
(6) may be 00 to 99 or AA to ZZ according to customer's option. Not related safety concerns

Factories:

BRIDGEPOWER CORP
964 GOSAEK-DONG GWONSEON-GU
SUWON-SI GYEONGGI-DO 441-813 KOREA

WENDENG JEIL ELECTRONICS CO LTD
DONG SHOU GUANGZHOU LU KAIFA-QU
WENDENG-SHI SHANDONG CHINA

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

UL International Demko A/S, Borupvang 5A, DK-2750
Ballerup, Denmark, Tel. +45 44 85 65 65, info.dk@dk.ul.com
www.ul-europe.com

Date: 2011-09-19

Signature:

Jan-Erik Storgaard

Test Report issued under the responsibility of:

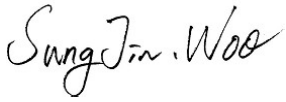
Underwriters Laboratories

IEC 60601-1
Medical electrical equipment
Part 1: General requirements for basic safety and essential performance

Report Reference No.....:	E302267-20110919
Date of issue .....:	2011-09-19
Total number of pages.....:	271
CB Testing Laboratory.....:	UL Korea, Ltd.
Address .....:	#805, Manhatan Building, 36-2 Yeouido-Dong, Yeongdeungpo-Gu, Seoul 150-749, Korea
Applicant's name.....:	BRIDGEPOWER CORP
Address .....:	964 GOSAEK-DONG GWONSEON-GU SUWON-SI GYEONGGI-DO 441-813 KOREA
Test specification:	
Standard .....:	**IEC 60601-1: 2005 + CORR. 1 (2006) + CORR. 2 (2007)**
Test procedure.....:	**CB Scheme**
Non-standard test method……..:	N/A
Test Report Form No.....:	**IEC60601_1G**
Test Report Form Originator .....:	**Underwriters Laboratories Inc.**
Master TRF .....:	**Dated 2010-11**

Test item description ..... :	AC-DC Adaptor
Trade Mark ..... :	None
Manufacturer..... :	BRIDGEPOWER CORP 964 GOSAEK-DONG GWONSEON-GU SUWON-SI GYEONGGI-DO 441-813 KOREA
Model/Type reference..... :	J(1)W1100(2)(3)(4)(5)F(6) and (1)ENB1100(3)(4)(5)F(6) (1) can be C, M or P for family related designs.

	(2) may be A to Z for customer option. (3) may be A to Z according to design revision. (4) may be 12, 13, 15, 16, 18, 19 or 24 according to output voltage. (5) may be 00 to 99 according to the shape of output connector. (6) may be 00 to 99 or AA to ZZ according to customer's option. Not related safety concerns
Ratings..... :	Rated Input: 100-240 Vac, 50-60Hz, 2.0 A. Rated Output: +12V/7.5A, +13V/6.92A, +15V/6.4A, +16V/6.0A, +18V/5.6A, +19V/5.2A or +24V/4.2A.

Testing procedure and testing location:		
☒ CB Testing Laboratory:		
Testing location/ address..... :	UL Korea, Ltd / #805, Manhatan Building, 36-2 Yeouido-Dong, Yeongdeungpo-Gu, Seoul 150-749, Korea	
☐ Associated CB Test Laboratory:		
Testing location/ address..... :		
Tested by (name + signature) .. :	DongGug Cho	
Approved by (+ signature) ..... :	SungJin Woo	
☐ Testing procedure: TMP		
Tested by (name + signature) .. :		
Approved by (+ signature) ..... :		
Testing location/ address..... :		
☐ Testing procedure: WMT		
Tested by (name + signature) .. :		
Witnessed by (+ signature) ..... :		
Approved by (+ signature) ..... :		
Testing location/ address..... :		
☐ Testing procedure: SMT		
Tested by (name + signature) .. :		
Approved by (+ signature) ..... :		
Supervised by (+ signature)..... :		
Testing location/ address..... :		
☐ Testing procedure: RMT		
Tested by (name + signature) .. :		
Approved by (+ signature) ..... :		
Supervised by (+ signature)..... :		
Testing location/ address..... :		

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

- Photographs (8 pages)
- Diagrams (11 Pages)
- Schematics + PWB (8 pages)
- Miscellaneous (47 pages)
- Marking Plate (6 pages)

Summary of testing

Tests performed (name of test and test clause):	**Testing location:**
Testing of this AC-DC Adaptor was not considered necessary based on the results of previous investigations to IEC 60601-1 Second Edition and IEC 60950-1 Second Edition.	N/A

Summary of compliance with National Differences

List of countries addressed: See Technical Consideration for details.

☒ The product fulfils the requirements of IEC 60601-1 Third Edition.

Copy of marking plate -

Refer to Attachment titled Marking Plate for copy

GENERAL INFORMATION	
Test item particulars (see also Clause 6):	
Classification of installation and use	: Hand-held or Portable
Device type (component/sub-assembly/ equipment/ system)	: Component power supply
Intended use (Including type of patient, application location)	: To supply regulated power.
Mode of operation	: Continuous
Supply connection	: Appliance inlet
Accessories and detachable parts included	: None
Other options include	: None
Testing	
Date of receipt of test item(s)	: N/A
Dates tests performed	: N/A
Possible test case verdicts:	
- test case does not apply to the test object	: N/A
- test object does meet the requirement	: Pass (P)
- test object was not evaluated for the requirement	: N/E
- test object does not meet the requirement	: Fail (F)
Abbreviations used in the report:	
- normal condition : **N.C.**	- single fault condition : S.F.C.
- means of Operator protection : **MOOP**	- means of Patient protection : MOPP

General remarks:

"(see Attachment #)" refers to additional information appended to the report.
"(see appended table)" refers to a table appended to the report.
The tests 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 testing laboratory.
List of test equipment must be kept on file and available for review.
Additional test data and/or information provided in the attachments to this report.

Throughout this report a ☐ comma / ☒ point is used as the decimal separator.

Manufacturer's Declaration per sub-clause 6.2.5 of IECEE 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)..... :

BRIDGEPOWER CORP

964 GOSAEK-DONG GWONSEON-GU
SUWON-SI GYEONGGI-DO 441-813 KOREA

WENDENG JEIL ELECTRONICS CO LTD

DONG SHOU GUANGZHOU LU KAIFA-QU
WENDENG-SHI SHANDONG CHINA

General product information:

Products are component power supplies intended to be used as part of Medical Electrical Equipment. This AC Input Power Supply provides 2MOOP isolation from Primary to Secondary/Enclosure(for Class II construction) and/or 1MOOP isolation from Primary to Earth (for Class I construction). It contains the mains transformer with UL Recognized Insulation System.

This product is the AC-DC Adaptor of the switching type power supply, which electronic components are mounted on PWB and housed in plastic enclosure and provided with appliance inlet.

Model Differences

Model (1)ENB1100(3)(4)(5)F(6) is identical to model J(1)W1100(2)(3)(4)(5)F(6), except for model designation.

The minor differences of main transformer (T1) and of a few secondary resisters existed according to the respective dc output voltage.

Following models are derived and specified from original model nomenclature due to have different primary component and transformer. Change concern is listed in table 56.1.

- J(1)W1100(2)B12(5)F(6), J(1)W1100(2)B13(5)F(6), J(1)W1100(2)B15(5)F(6), J(1)W1100(2)B16(5)F(6), J(1)W1100(2)B18(5)F(6), J(1)W1100(2)B19(5)F(6), J(1)W1100(2)B24(5)F(6), (1)ENB1100A12(5)F(6), (1)ENB1100A13(5)F(6), (1)ENB1100A15(5)F(6), (1)ENB1100A16(5)F(6), (1)ENB1100A18(5)F(6), (1)ENB1100A19(5)F(6), (1)ENB1100A24(5)F(6).

The below information is nomenclature detail for J(1)W1100(2)(3)(4)(5)F(6) and (1)ENB1100(3)(4)(5)F(6).

(1) can be C, M or P for family related designs.

(2) may be A to Z for customer option.

(3) may be A to Z according to design revision.

(4) may be 12, 13, 15, 16, 18, 19 or 24 according to output voltage.

(5) may be 00 to 99 according to the shape of output connector.

(6) may be 00 to 99 or AA to ZZ according to customer's option. Not related safety concerns

Technical Considerations

- The product was investigated to the following additional standards: ANSI/AAMI ES60601-1:2005/C1:2009 (includes National Differences for USA); CAN/CSA-C22.2 No. 60601-1:08 (includes National Differences for Canada), EN 60601-1:2006
- Scope of Power Supply evaluation defers the following clauses to the be determined as part of the end product: Clause 7.5 (Safety Signs), Clause 7.9 (Accompanying Documents), Clause 9 (Mechanical Hazard), Clause 10 (Radiation), Clause 14 (PEMS), Clause 16 (ME Systems)
- Scope of Power Supply evaluation excludes the following:
  - Patient applied parts clauses: 4.6, 7.2.10, 8.3, 8.5.2, 8.5.5, 8.7.4.7-8.7.4.9, 8.9.1.15
  - Battery related clauses: 7.3.3, 15.4.3
  - Hand Control related clauses: 8.10.4
  - Oxygen related clauses: 11.2.2
  - Fluids related clauses: 11.6.2 – 11.6.4