

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

Network Switch

Name and address of the applicant
Nom et adresse du demandeur

Radware Ltd.
22 Raoul Wallenberg St.
69710 Tel Aviv, Israel

Name and address of the manufacturer
Nom et adresse du fabricant

Radware Ltd.
22 Raoul Wallenberg St.
69710 Tel Aviv, Israel

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

See additional page(s)

Ratings and principal characteristics
Valeurs nominales et caractéristiques principales

AC 100-240V, 50-60Hz, 5-3A or -36 — -72Vdc, 12-6A
Class I

Trademark (if any)
Marque de fabrique (si elle existe)

radware

Type of Manufacturer's Testing Laboratories used
Type de programme du laboratoire d'essais constructeur

N/A

Model / Type Ref.
Ref. de type

ODS-VL2

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

Re-issue of JPTUV-073271 dated 21.06.2016,
due to non-technical change.

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 60950-1:2005+A1+A2
See Test Report for National Differences

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

11046716 002

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



TÜV Rheinland Japan Ltd.
Global Technology Assessment Center
4-25-2 Kita-Yamata, Tsuzuki-ku
Yokohama 224-0021 Japan
Phone + 81 45 914-3888
Fax + 81 45 914-3354
Mail: info@jpn.tuv.com
Web: www.tuv.com

Date: 10.12.2018

Signature:

Dipl.-Ing. (FH) A. Klinker

1. Portwell, Inc.
No. 242, Bo-Ai St.
Shu-Lin Dist., New Taipei City
23845
Taiwan

2. CASWELL, INC.
8F, No. 242 Bo-Ai Street,
Shu-Lin Dist., New Taipei City
23845
Taiwan

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

Report Ref. No.: 11046716 002

Date: 10.12.2018

Signature:



Dipl.-Ing. (FH) A. Klinker



Test Report issued under the responsibility of:



TEST REPORT

IEC 60950-1

Information technology equipment – Safety – Part 1: General requirements

Report Number.: 11046716 002

Date of issue: Dec. 03, 2018

Total number of pages.....: 6

Applicant's name: Radware Ltd.

Address: 22 Raoul Wallenberg St., 69710 Tel Aviv, Israel

Test specification:

Standard: IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013

Test procedure.....: CB Scheme

Non-standard test method.....: N/A

Test Report Form No.....: IEC60950_1F

Test Report Form(s) Originator.....: SGS Fimko Ltd

Master TRF: Dated 2014-02

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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		Network Switch	
Trade Mark		 radware	
Manufacturer.....		Same as applicant	
Model/Type reference		ODS-VL2	
Ratings		I/P: 100-240Vac, 50-60Hz, 5-3A or -36 — -72Vdc, 12-6A	
Testing procedure and testing location:			
<input checked="" type="checkbox"/>	CB Testing Laboratory:	TÜV Rheinland Taiwan Ltd., Taichung Branch	
Testing location/ address		No. 9, Ln. 36, Sec. 3, Minsheng Rd., Daya District, Taichung City 428, Taiwan	
<input type="checkbox"/>	Associated CB Testing Laboratory:		
Testing location/ address			
Tested by (name + signature).....			X  Project Engineer Signed by: Jason C. H. Chang
Approved by (name + signature).....			X  Reviewer Signed by: Paul LM Lin
<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)..... :		
Witnessed by (name + signature) :		
Approved by (name + signature)..... :		
Supervised by (name + signature) :		

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

- N/A

Summary of testing:**Tests performed (name of test and test clause):**

- N/A

Testing location:

N/A

Summary of compliance with National Differences**List of countries addressed:**

EU Group Differences, EU Special National Conditions, CA, US.

Explanation of used codes: CA = Canada, US = United States of America.

☒ **The product fulfils the requirements of EN 60950-1:2006 + A11:2009 + A1:2010 +A12:2011+A2:2013**

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.

N/A

Test item particulars:	
Equipment mobility:	<input checked="" type="checkbox"/> movable <input type="checkbox"/> hand-held <input type="checkbox"/> transportable <input type="checkbox"/> stationary <input type="checkbox"/> for building-in <input type="checkbox"/> direct plug-in
Connection to the mains:	<input checked="" type="checkbox"/> pluggable equipment <input checked="" type="checkbox"/> type A <input type="checkbox"/> type B <input checked="" type="checkbox"/> permanent connection (for DC in type only) <input checked="" type="checkbox"/> detachable power supply cord <input type="checkbox"/> non-detachable power supply cord <input type="checkbox"/> not directly connected to the mains
Operating condition:	<input checked="" type="checkbox"/> continuous <input type="checkbox"/> rated operating / resting time:
Access location	<input checked="" type="checkbox"/> operator accessible <input type="checkbox"/> restricted access location
Over voltage category (OVC)	<input type="checkbox"/> OVC I <input checked="" type="checkbox"/> OVC II <input type="checkbox"/> OVC III <input type="checkbox"/> OVC IV <input type="checkbox"/> other:
Mains supply tolerance (%) or absolute mains supply values	±10 (for AC mains) 0 (for DC mains)
Tested for IT power systems	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
IT testing, phase-phase voltage (V)	230V for Norway
Class of equipment	<input checked="" type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Class III <input type="checkbox"/> Not classified
Considered current rating of protective device as part of the building installation (A)	20
Pollution degree (PD)	<input type="checkbox"/> PD 1 <input checked="" type="checkbox"/> PD 2 <input type="checkbox"/> PD 3
IP protection class	IPX0
Altitude during operation (m)	Up to 2000
Altitude of test laboratory (m)	Not over 2000
Mass of equipment (kg)	7.0
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 : N/A	
Date(s) of performance of tests : N/A	
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 <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.	

Manufacturer's Declaration per sub-clause 4.2.5 of IEC60950:

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) : Portwell, Inc.
 No. 242, Bo-Ai St., Shu-Lin Dist., New Taipei City,
 23845 Taiwan

CASWELL, INC.
8F, No. 242 Bo-Ai Street, Shu-Lin Dist., New Taipei City, 23845 Taiwan

General product information:

Description of change(s):

1. Add new factory as below.
 CASWELL, INC.
 8F, No. 242 Bo-Ai Street, Shu-Lin Dist., New Taipei City, 23845 Taiwan
2. Change product name to "Network Switch"
3. Remove models as below.
 ODS-VL2-16, ODS-VL2-16-2AC, ODS-VL2-XL-16, ODS-VL2-XL-16-2A, ODS-VL2-32, ODS-VL2-32-2AC, ODS-VL2-XL-32, ODS-VL2-XL-32-2A, Alteon -NG 5208 -6G, Alteon -NG 5208 -6G dual AC, Alteon -NG 5208 XL -6G, Alteon -NG 5208 XL -6G dual AC, Alteon -NG 5208 -12G, Alteon -NG 5208 -12G dual AC, Alteon -NG 5208 XL -12G, Alteon -NG 5208 XL -12G dual AC, Alteon -NG 5208 -26G, Alteon -NG 5208 -26G dual AC, Alteon -NG 5208 XL -26G, Alteon -NG 5208 XL -26G dual AC, ODS-VL2-16-DC, ODS-VL2-16-2DC, ODS-VL2-XL-16-DC, ODS-VL2-XL-16-2D, ODS-VL2-32-DC, ODS-VL2-32-2DC, ODS-VL2-XL-32-DC, ODS-VL2-XL-32-2D, Alteon -NG 5208 -6G DC, Alteon -NG 5208 -6G dual DC, Alteon -NG 5208 XL -6G DC, Alteon -NG 5208 XL -6G dual DC, Alteon -NG 5208 -12G DC, Alteon -NG 5208 -12G dual DC, Alteon -NG 5208 XL -12G DC, Alteon -NG 5208 XL -12G dual DC, Alteon -NG 5208 -26G DC, Alteon -NG 5208 -26G dual DC, Alteon -NG 5208 XL -26G DC, Alteon -NG 5208 XL -26G dual DC

For the above described change(s) the following was considered to be necessary:

Change	Testing	Comments
1.-3.	• N/A	No safety impact.

History of amendments and modifications:

Ref. No. 11046716 001, dated Jun. 17, 2016 (original test report)
 Ref. No. 11046716 002, dated Dec. 03, 2018 (amendment)

Abbreviations used in the report:

- normal conditions	N.C.	- single fault conditions	S.F.C
- functional insulation	OP	- basic insulation	BI
- double insulation	DI	- supplementary insulation	SI
- between parts of opposite polarity	BOP	- reinforced insulation	RI

Indicate used abbreviations (if any)