



Ref. Certif. No.

JP-25774-M1-UL

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

CB TEST CERTIFICATE

Product	DC-DC Converter
Name and address of the applicant	TDK-LAMBDA CORP NAGAOKA TECHNICAL CENTER 2704-1 SETTAYA-MACHI NAGAOKA-SHI NIIGATA-KEN 940-1195 JAPAN
Name and address of the manufacturer	TDK-LAMBDA CORP NAGAOKA TECHNICAL CENTER 2704-1 SETTAYA-MACHI NAGAOKA-SHI NIIGATA-KEN 940-1195 JAPAN
Name and address of the factory	TDK-LAMBDA CORP 2704-1 SETTAYA-MACHI NAGAOKA-SHI NIIGATA-KEN 940-1195 JAPAN
Note: When more than one factory, please report on page 2	<input type="checkbox"/> Additional Information on page 2
Ratings and principal characteristics	See Page 2
Trademark / Brand (if any)	
Customer's Testing Facility (CTF) Stage used	
Model / Type Ref.	CCG1R5-xx-yySa#, CCG3-xx-yySa#, CCG1R5-xx-zzDa#, CCG3-xx-zzDa# (where xx: 12, 24, or 48, where yy: 03, 05, 12, or 15, where zz: 12 or 15, where a: F or R, where #: 1 or 2 digit, A to Z or blank)
Additional information (if necessary may also be reported on page 2)	The report was revised to include technical modifications. Additionally evaluated to: EN IEC 62368-1:2020/A11:2020 National Differences specified in the CB Test Report. <input checked="" type="checkbox"/> Additional Information on page 2
A sample of the product was tested and found to be in conformity with	IEC 62368-1:2018
As shown in the Test Report Ref. No. which forms part of this Certificate	E132035-A6024-CB-1 issued on 2023-03-30

This CB Test Certificate is issued by the National Certification Body



- UL Solutions (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
- UL Solutions (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK
- UL Solutions (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
- UL Solutions (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

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

Date: 2023-03-31
Original Issue Date: 2021-12-24

Signature:
Masamichi Takagi



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Ratings:

Input:

- 4.5 - 18V dc, 0.414 A (for Model CCG1R5-12-03S)
- 4.5 - 18V dc, 0.433 A (for Model CCG1R5-12-05S)
- 4.5 - 18V dc, 0.469 A (for Model CCG1R5-12-12S)
- 4.5 - 18V dc, 0.445 A (for Model CCG1R5-12-15S)
- 9 - 36V dc, 0.207 A (for Model CCG1R5-24-03S)
- 9 - 36V dc, 0.217 A (for Model CCG1R5-24-05S)
- 9 - 36V dc, 0.214 A (for Model CCG1R5-24-12S)
- 9 - 36V dc, 0.209 A (for Model CCG1R5-24-15S)
- 18 - 76V dc, 0.104 A (for Model CCG1R5-48-03S)
- 18 - 76V dc, 0.110 A (for Model CCG1R5-48-05S and CCG1R5-48-15S)
- 18 - 76V dc, 0.112 A (for Model CCG1R5-48-12S)

- 4.5 - 18V dc, 0.793 A (for Model CCG3-12-03S)
- 4.5 - 18V dc, 0.866 A (for Model CCG3-12-05S and CCG3-12-12S)
- 4.5 - 18V dc, 0.855 A (for Model CCG3-12-15S)
- 9 - 36V dc, 0.397 A (for Model CCG3-24-03S)
- 9 - 36V dc, 0.422 A (for Model CCG3-24-05S and CCG3-24-12S)
- 9 - 36V dc, 0.412 A (for Model CCG3-24-15S)
- 18 - 76V dc, 0.199 A (for Model CCG3-48-03S)
- 18 - 76V dc, 0.214 A (for Model CCG3-48-05S)
- 18 - 76V dc, 0.209 A (for Model CCG3-48-12S)
- 18 - 76V dc, 0.211 A (for Model CCG3-48-15S)

- 4.5 - 18V dc, 0.463 A (for Model CCG1R5-12-12D)
- 4.5 - 18V dc, 0.445 A (for Model CCG1R5-12-15D)
- 9 - 36V dc, 0.220 A (for Model CCG1R5-24-12D)
- 9 - 36V dc, 0.214 A (for Model CCG1R5-24-15D)
- 18 - 76V dc, 0.115 A (for Model CCG1R5-48-12D and CCG1R5-48-15D)

- 4.5 - 18V dc, 0.889 A (for Model CCG3-12-12D)
- 4.5 - 18V dc, 0.855 A (for Model CCG3-12-15D)
- 9 - 36V dc, 0.439 A (for Model CCG3-24-12D and CCG3-24-15D)
- 18 - 76V dc, 0.217 A (for Model CCG3-48-12D)
- 18 - 76V dc, 0.209 A (for Model CCG3-48-15D)

Output: See Test Report.

Summary of Modifications:

- Addition of type name of PWB on Model Differences, due to minor change.;
- Addition of Alternate Case, Toray Industries Inc., type A504X90, type A503 and Solvay Specialty Polymers USA L L C, type R-4-230(##) (f1).;
- Update of U.S.A. AND CANADA NATIONAL DIFFERENCES.;
- Update of Enclosure ID# 05-01, 05-02, 05-03, 05-04, 05-05, 05-06, 05-07 and 05-08 due to minor change.

Additional information (if necessary)



- UL Solutions (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
- UL Solutions (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK
- UL Solutions (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
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