

# DEMKO CERTIFICATE

<b>Certificate No.</b>	D-09037
<b>Page</b>	1/4
<b>Date of Issue</b>	2022-01-05
<b>Certificate Holder</b>	TDK-LAMBDA CORP NAGAOKA TECHNICAL CENTER 2704-1 SETTAYA-MACHI NAGAOKA-SHI NIIGATA-KEN 940-1195 JAPAN
<b>Manufacturer</b>	TDK-LAMBDA CORP NAGAOKA TECHNICAL CENTER 2704-1 SETTAYA-MACHI NAGAOKA-SHI NIIGATA-KEN 940-1195 JAPAN
<b>Production site</b>	TDK-LAMBDA CORP NAGAOKA TECHNICAL CENTER 2704-1 SETTAYA-MACHI NAGAOKA-SHI NIIGATA-KEN 940-1195 JAPAN
<b>Certified Product</b>	DC-DC Converter
<b>Model</b>	CCG1R5-xx-yySa#, CCG3-xx-yySa#, CCG1R5-xx-zzDa#, CCG3-xx-zzDa# See page 2 for additional Information
<b>Trademark</b>	<b>TDK-Lambda</b>
<b>Ratings</b>	Input: 4.5 - 18V dc, 0.414 A (for Model CCG1R5-12-03S) See page 2 for additional ratings
<b>Tested according to</b>	EN IEC 62368-1:2020, EN IEC 62368-1:2020/A11:2020
<b>Test Report No.</b>	E132035-A6024-CB-1 issued on 2021-12-23
<b>Additional</b>	-
<b>Expire date</b>	2032-01-04

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**Certification Manager**  
Jan-Erik Storgaard

This is to certify that representative sample(s) of the Product described herein ("Certified Product") have been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the D-Mark Requirements. As specified in the respective appendix below the Designated Certificate holder is entitled to use the D-Mark, or its alternative for cables, for the Certified Product manufactured at the production site(s) identified above, in accordance with the D-Mark Service Agreement, including without limitation the D-Mark Testing and Certification Services Service Terms. Only those Products bearing the D-Mark should be considered as being covered by UL's D-Mark Service. This Certificate shall remain valid through the expiration date, unless terminated earlier in accordance with the Service Agreement including without limitation if the Standard identified on this Certificate is amended or withdrawn prior the expiration date.

**Certification Body**

UL International Demko A/S, Borupvang 5A, DK-2750  
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# Appendix DEMKO CERTIFICATE

**Certificate No.** D-09037  
**Page** 2/4  
**Date of Issue** 2022-01-05

## Additional Model(s):

**Series:** CCG1R5-xx-yySa#, CCG3-xx-yySa#, CCG1R5-xx-zzDa# and 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)

## 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 for details.  
for building-in, Not Classified, IPX0.

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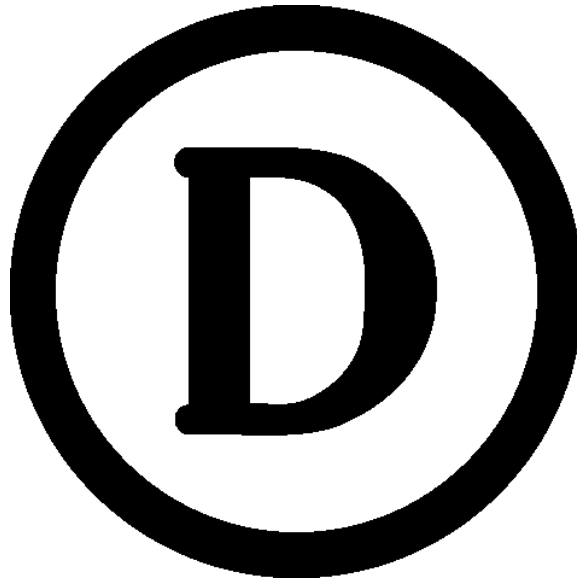


# Appendix DEMKO CERTIFICATE

**Certificate No.** D-09037  
**Page** 3/4  
**Date of Issue** 2022-01-05

## **Certification Mark D-Mark**

The D-Mark, as displayed below, shall appear on certified products only. Except as specified below the Mark shall be legible and no Minimum size is specified.



The D-Mark may appear on a label, nameplate, or may be cast, stamped or molded into the product. When appearing on a label or nameplate, the Manufacturer's name or trademark along with a model number are also required on that same label or nameplate. If cast, stamped or molded, the Certificate Manufacturer's name or trademark and model number shall also appear elsewhere on the product

When putting the product on the EU market, the manufacturer's name, trademark or mark of origin must be affixed in a clearly visible location and position on the product, on the package and in the user manual. It can be affixed by label, be directly imprinted, or cast or molded into the product.

Where the size of the product does not allow the Mark, the manufacturer's name, trademark, mark of origin and model number to be legible, and appearance on a label is not desired, it is allowed to cast, stamp or mold the Mark into the product, in a size which is not visible to the naked eye, provided the legible Mark, the manufacturer's name, trademark or mark of origin and model number appears on the package and in the user manual

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# Appendix DEMKO CERTIFICATE

**Certificate No.** D-09037  
**Page** 4/4  
**Date of Issue** 2022-01-05

## **Alternate certification Mark for cables**

As an alternative to the D-Mark specified above the alternate D-Mark, displayed below, can appear on certified cables only. Minimum size is not specified, as long as the mark is legible.

<DEMKO>

The alternate D-Mark may be cast, stamped or molded into the cable and continue throughout the length of the cable as specified in the applicable cable standard.

All content shall be in accordance with the details provided on this D-Mark Certificate.

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