DEMKO Certificate

Certificate
D-10909-A1

Issue date
2025-03-12

Expiration date
2027-02-15

This is to acknowledge that

COSEL CO LTD

1-6-43 KAMIAKAE-MACHI TOYAMA-SHI, Toyama, 930-0816 JAPAN
has had

DC-DC Converter

MUx3yz, **MUx1R5yz**
See page 2 for additional Information

evaluated and meets the requirements of the standard

EN IEC 62368-1:2020, EN IEC 62368-1:2020/A11:2020

Test Report Nos.
E132067-A6193-CB-1 issued on 2025-03-11

Certification Manager
Thomas Wilson

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark, Tel. +45 44 85 65 65

This is to certify that representative sample(s) of the Product described herein ("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 sections 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 Solutions' 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with the Service Agreement including without limitation if the Standard identified on this Certificate is amended or withdrawn prior the expiration date.

Certificate No. D-10909-A1
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DEMKO CERTIFICATE
TECHNICAL DETAILS

Production site(s)

COSEL CO LTD
1-6-43 KAMIAKAE-MACHI TOYAMA-SHI, TOYAMA, 930-0816
JAPAN

Trademark

Ratings

Input Ratings: MUS1R5053R3: 4.5 - 9 VDC/ 0.38 A maximum, MUS1R50505 and MUS1R50515: 4.5 - 9 VDC/ 0.41 A maximum, MUS1R50512: 4.5 - 9 VDC/ 0.43 A maximum, MUS1R5123R3: 9 - 18 VDC/ 0.20 A maximum, MUS1R51205 and MUS1R51215: 9 - 18 VDC/ 0.21 A maximum, MUS1R51212: 9 - 18 VDC/ 0.22 A maximum, MUS1R5243R3: 18 - 36 VDC/ 0.10 A maximum, MUS1R52405, MUS1R52412 and MUS1R52415: 18 - 36 VDC/ 0.11 A maximum, MUS1R5483R3, MUS1R54805, MUS1R54812 and MUS1R54815: 36- 76 VDC/ 0.06 A maximum
MUW1R50512: 4.5 - 9 VDC/ 0.43 A maximum, MUW1R50515: 4.5 - 9 VDC/ 0.42 A maximum, MUW1R51212: 9 - 18 VDC/ 0.22 A maximum, MUW1R51215: 9 - 18 VDC/ 0.21 A maximum, MUW1R52412 and MUW1R52415: 18 - 36 VDC/ 0.11 A maximum, MUW1R54812 and MUW1R54815: 36- 76 VDC/ 0.06 A maximum
MUS3053R3: 4.5 - 9 VDC/ 0.56 A maximum, MUS30505: 4.5 - 9 VDC/ 0.81 A maximum, MUS30512: 4.5 - 9 VDC/ 0.80 A maximum, MUS30515: 4.5 - 9 VDC/ 0.79 A maximum, MUS3123R3: 9 - 18 VDC/ 0.28 A maximum, MUS31205 and MUS31212: 9 - 18 VDC/ 0.40 A maximum, MUS31215: 9 - 18 VDC/ 0.39 A maximum, MUS3243R3: 18 - 36 VDC/ 0.15 A maximum, MUS32405: 18 - 36 VDC/ 0.21 A maximum, MUS32412 and MUS32415: 18 - 36 VDC/ 0.20 A maximum, MUS3483R3: 36- 76 VDC/ 0.08 A maximum, MUS34805: 36- 76 VDC/ 0.11 A maximum, MUS34812 and MUS34815: 36- 76 VDC/ 0.10 A maximum
MUW30512: 4.5 - 9 VDC/ 0.84 A maximum, MUW30515: 4.5 - 9 VDC/ 0.81 A maximum, MUW31212: 9 - 18 VDC/ 0.42 A maximum, MUW31215: 9 - 18 VDC/ 0.40 A maximum, MUW32412: 18 - 36 VDC/ 0.22 A maximum, MUW32415: 18 - 36 VDC/ 0.21 A maximum, MUW34812 and MUW34815: 36- 76 VDC/ 0.11 A maximum
Output Ratings: See test report for details.
Not Classified

Additional Information

The report was revised to include corrections.
This Certificate replaces earlier issued certificate No. D-10909 due to:
[1] Correction of typo error in Input Ratings in CB Test Report ref. E132067-A6193-CB-1 (Original) from "60 VDC" to "76 VDC".
[2] Correction of typo error Page 72 of 118 in Table 5.4.1.4, 9.3, B.1.5, B.2.6 in CB Test Report ref. E132067-A6193-CB-1 (Original) from "12V" to "24V".

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Models (continued from page 1)

Series: MUx3yz, MUx1R5yz, "x" = S or W, "y" = 05, 12, 24 or 48, "z" = 3R3, 05, 12, 15 (when "x" = W, "z" is 12 or 15). May be provided with suffix "&-$#". ("&" = any letter A to Z or blank, “$” = G, R (model MUx1R5yz only) or blank, "#" represents one or more digits of any alphanumeric characters 0 to 9 or A to Z or blank.)

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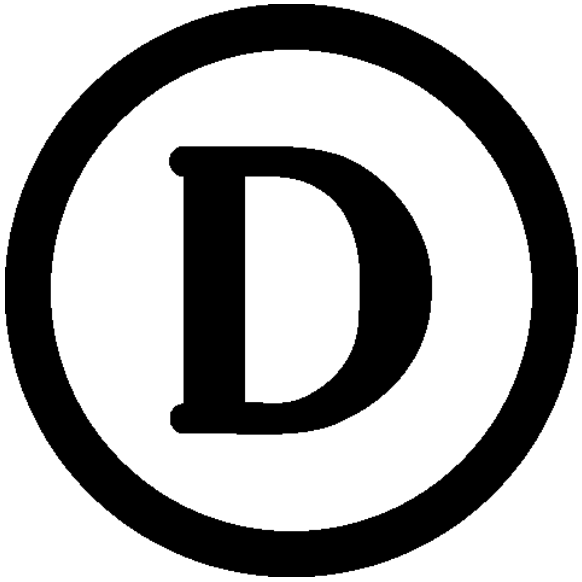
Certification Mark D-Mark

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 size of the Mark may be reduced or enlarged on the condition that it remains readable and that the proportions of width and height are kept. The use of dark text for the D-Mark on light backgrounds and light text on dark backgrounds is permitted.

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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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.