

DEMKO CERTIFICATE

Certificate No. D-08353
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Date of Issue 2020-12-14

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

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

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

Certified Product Model DC-DC Converter
 MGwxyz
 See Page 2

Trademark



Rated Voltage / Frequency See Page 2-3

Rated Current / Power See Page 2-3

Insulation Class Not classified

Degree of protection (IP) IP is not classified

Tested acc. to EN 62368-1:2014/A11:2017, EN 62368-1:2014

Test Report No. E132067-A6056-CB-1 issued on 2020-12-10

Additional

Expire date 2030-12-13

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with the Service Agreement including without limitation if the Standard identified on this Certificate is amended or withdrawn prior the expiration date.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
 Ballerup, Denmark, Tel. +45 44 85 65 65,
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Model Details:

MGwxyz "w" = S, FS, XS, W, FW or XW

"x" = 1R5, 3, 6 or 10 (when "w" = XS or XW, "x" is 1R5 or 6)

"y" = 05, 12, 24 or 48 (when "w" = FS or FW, "y" is 24 or 48 and "w" = XS or XW, "y" is 24 only)

"Z" = 3R3, 05, 12, 15 (when "w" = W or FW, "z" is 05, 12 or 15 and "w" = XW, "z" is 12 or 15)

Maybe provided with suffix "-\$#".

(\$ represents "Y", # represents one or more digits of any alphanumeric characters 0 to 9 or A to Z.)

Ratings:

4.5-9 VDC/ 0.39 A (MGS1R5053R3), 0.41 A (MGS1R50515, MGW1R50515), 0.42 A (MGS1R50505, MGS1R50512, MGW1R50505, MGW1R50512), 0.76 A (MGS3053R3), 0.80 A (MGS30512, MGS30515), 0.81 A (MGW30512, MGW30515), 0.83 A (MGS30505, MGW30505), 1.54 A (MGS6053R3), 1.61 A (MGS60612, MGS60515, MGW60512, MGW60515), 1.67 A (MGS60505, MGW60505), 2.36 A (MGS10053R3), 2.69 A (MGS100505), 2.75 A (MGW100505), 2.79 A (MGS100515), 2.82 A (MGW100515), 2.87 A (MGS100512), 2.90 A (MGW100512)

9-18 VDC/ 0.19 A (MGS1R5123R3), 0.20 A (MGS1R51215, MGW1R51215), 0.21 A (MGS1R51205, MGS1R51212, MGW1R51205, MGW1R51212), 0.38 A (MGS3123R3), 0.40 A (MGS31212, MGS31215, MGW31212, MGW31215), 0.41 A (MGS31205, MGW31205), 0.77 A (MGS6123R3), 0.80 A (MGS61212, MGS61215, MGW61212, MGW61215), 0.83 A (MGS61205, MGW61205), 1.17 A (MGS10123R3), 1.33 A (MGS101205), 1.36 A (MGW101205), 1.38 A (MGS101215), 1.40 A (MGW101215), 1.42 A (MGS101212), 1.44 A (MGW101212)

18-36 VDC/ 0.10 A (MGS1R5243R3, MGS1R52415, MGW1R52415), 0.11 A (MGS1R52405, MGS1R52412, MGW1R52405, MGW1R52412), 0.19 A (MGS3243R3), 0.20 A (MGS32412, MGS32415, MGW32412, MGW32415), 0.21 A (MGS32405, MGW32405), 0.39 A (MGS6243R3), 0.40 A (MGS62412, MGS62415, MGW62412, MGW62415), 0.42 A (MGS62405, MGW62405), 0.59 A (MGS10243R3), 0.67 A (MGS102405), 0.68 A (MGW102405), 0.69 A (MGS102415), 0.70 A (MGW102415), 0.71 A (MGS102412), 0.72 A (MGW102412)

36-76 VDC/ 0.05 A (MGS1R5483R3), 0.06 A (MGS1R54805, MGS1R54812, MGS1R54815, MGW1R54805, MGW1R54812, MGW1R54815), 0.10 A (MGS3483R3, MGS34812, MGS34815, MGW34812, MGW34815), 0.11 A (MGS34805, MGW34805), 0.20 A (MGS6483R3, MGS64812, MGS64815, MGW64812, MGW64815), 0.21 A (MGS64805, MGW64805), 0.30 A (MGS10483R3), 0.34 A (MGS104805, MGW104805, MGW104812, MGW104815), 0.35 A (MGS104815), 0.36 A (MGS104812)

9-36 VDC/ 0.19 A (MGFS1R5243R3), 0.20 A (MGFS1R52415, MGFW1R52415), 0.21 A (MGFS1R52405, MGFS1R52412, MGFW1R52405, MGFW1R52412), 0.38 A (MGFS3243R3), 0.40 A (MGFS32412, MGFS32415, MGFW32415), 0.41 A (MGFS32405, MGFW32405), 0.45 A (MGFW32412), 0.77 A (MGFS6243R3), 0.80 A (MGFS62412, MGFS62415, MGFW62412, MGFW62415), 0.83 A (MGFS62405, MGFW62405), 1.17 A (MGFS10243R3), 1.33 A (MGFS102405), 1.36 A (MGFW102405), 1.38 A (MGFS102415), 1.42 A (MGFS102412), 1.40 A (MGFW102415), 1.44 A (MGFW102412)

18-76 VDC/ 0.10 A (MGFS1R5483R3), 0.11 A (MGFS1R54805, MGFS1R54812, MGFS1R54815, MGFW1R54805, MGFW1R54812, MGFW1R54815), 0.19 A (MGFS3483R3), 0.20 A (MGFS34812, MGFS34815), 0.21 A (MGFS34805, MGFW34805), 0.23 A (MGFW34812, MGFW34815), 0.39 A (MGFS6483R3), 0.40 A (MGFS64812, MGFS64815, MGFW64812, MGFW64815), 0.42 A (MGFS64805, MGFW64805), 0.59 A (MGFS10483R3), 0.67 A (MGFS104805), 0.68 A (MGFW104805), 0.69 A (MGFS104815), 0.70 A (MGFW104815), 0.71 A (MGFS104812), 0.72 A (MGFW104812)

Certification Body

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6-60 VDC/ 0.30 A (MGXS1R5243R3), 0.32 A (MGXS1R52415, MGXW1R52415), 0.33 A (MGXS1R52405, MGXS1R52412, MGXW1R52412), 0.90 A (MGXS6243R3), 0.97 A (MGXS62412, MGXS62415, MGXW62412, MGXW62415), 0.99A (MGXS62405)

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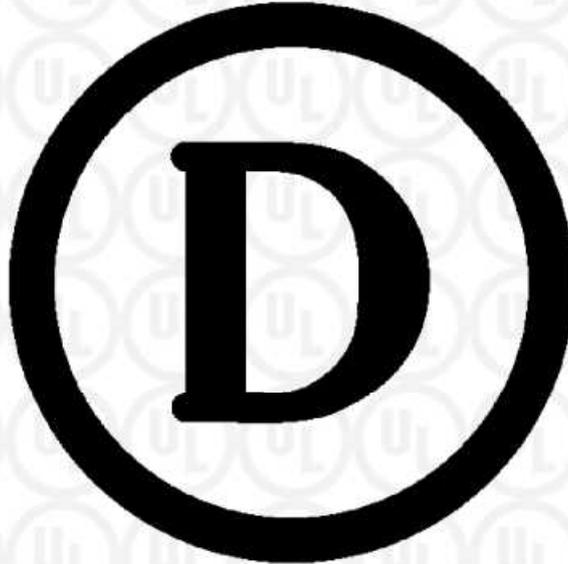


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Certification Mark D-Mark

The D-Mark, as displayed below, shall appear on certified products only. Minimum size is not specified, as long as the Mark is legible.



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.

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.

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 moulded 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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