

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

MINMAX TECHNOLOGY CO LTD  
18 SIN-SIN RD, AN-PING INDUSTRIAL DISTRICT, TAINAN  
CITY, 702 TAIWAN

Name and address of the manufacturer

MINMAX TECHNOLOGY CO LTD  
18 SIN-SIN RD, AN-PING INDUSTRIAL DISTRICT, TAINAN  
CITY, 702 TAIWAN

Name and address of the factory

Note: When more than one factory, please report on page 2

MINMAX TECHNOLOGY CO LTD  
18 SIN-SIN RD, AN-PING INDUSTRIAL DISTRICT, TAINAN  
CITY, 702  
TAIWAN Additional Information on page 2

Ratings and principal characteristics

Input for MIDR03-05S05M:  
Range:4.5 – 5.5Vdc, External Input Fuse: 2000mA  
See Test Report for details.

Trademark / Brand (if any)

 MINMAX<sup>®</sup> or MINMAX<sup>®</sup>

Type of Customer's Testing Facility (CTF) Stage used

Model / Type Ref.

MIDER03 Series, MIDR03 Series, MKE10 Series, MKW10  
Series, MSDEU02 Series, MSHU Series  
See Page 2Additional information (if necessary may also be  
reported on page 2) Additional Information on page 2A sample of the product was tested and found  
to be in conformity with

IEC 62368-1:2014

As shown in the Test Report Ref. No. which forms part  
of this Certificate

180101419 issued on 2019-10-08

This CB Test Certificate is issued by the National Certification Body



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

For full legal entity names see [www.ul.com/ncbnames](http://www.ul.com/ncbnames)

Date: 2019-10-09

Signature:

Jan-Erik Storgaard



Ref. Certif. No.

**DK-88440-UL**

Model Details:

MIDER03 Series:

MIDER03-05S05HI, MIDER03-05S12HI, MIDER03-05S15HI, MIDER03-05D12HI, MIDER03-05D15HI, MIDER03-12S05HI, MIDER03-12S12HI, MIDER03-12S15HI, MIDER03-12D12HI, MIDER03-12D15HI, MIDER03-24S05HI, MIDER03-24S12HI, MIDER03-24S15HI, MIDER03-24D12HI, MIDER03-24D15HI

MIDR03 Series:

MIDR03-05S05M, MIDR03-05S12M, MIDR03-05S15M, MIDR03-05D12M, MIDR03-05D15M, MIDR03-12S05M, MIDR03-12S12M, MIDR03-12S15M, MIDR03-12D12M, MIDR03-12D15M, MIDR03-24S05M, MIDR03-24S12M, MIDR03-24S15M, MIDR03-24D12M, MIDR03-24D15M

MKE10 Series:

MKE10-12S05HI, MKE10-12S051HI, MKE10-12S12HI, MKE10-12D12HI, MKE10-12D15HI, MKE10-24S05HI, MKE10-24S051HI, MKE10-24S12HI, MKE10-24D12HI, MKE10-24D15HI, MKE10-48S05HI, MKE10-48S051HI, MKE10-48S12HI, MKE10-48D12HI, MKE10-48D15HI

MKW10 Series:

MKW10-12S05M, MKW10-12S051M, MKW10-12S12M, MKW10-12D12M, MKW10-12D15M, MKW10-24S05M, MKW10-24S051M, MKW10-24S12M, MKW10-24D12M, MKW10-24D15M, MKW10-48S05M, MKW10-48S051M, MKW10-48S12M, MKW10-48D12M, MKW10-48D15M

MSDEU02 Series:

MSDEU02-05S05HIX, MSDEU02-05S12HIX, MSDEU02-05S15HIX, MSDEU02-05D12HIX, MSDEU02-05D15HIX, MSDEU02-12S05HIX, MSDEU02-12S12HIX, MSDEU02-12S15HIX, MSDEU02-12D12HIX, MSDEU02-12D15HIX, MSDEU02-24S05HIX, MSDEU02-24S12HIX, MSDEU02-24S15HIX, MSDEU02-24D12HIX, MSDEU02-24D15HIX (the "X" can be "-W" or blank for marketing purpose.)

MSHU Series:

MSHU102X, MSHU104X, MSHU105X, MSHU108X, MSHU109X, MSHU112X, MSHU114X, MSHU115X, MSHU118X, MSHU119X, MSHU122X, MSHU124X, MSHU125X, MSHU128X, MSHU129X (the "X" can be "-W" or blank for marketing purpose.)

Additional Information:

Additionally evaluated to EN 62368-1:2014/A11:2017.

National Differences specified in the CB Test Report.

**Additional information (if necessary)**



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