

DK-59738-A3-UL

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

CB TEST CERTIFICATE

Product

Name and address of the applicant

Name and address of the manufacturer

Name and address of the factory

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

Ratings and principal characteristics

Trademark (if any)

Customer's Testing Facility (CTF) Stage used

Model / Type Ref.

Additional information (if necessary may also be reported on page 2)

A sample of the product was tested and found to be in conformity with

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

DC-DC Converter

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

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

(Optional) 9~36Vdc or 18~75Vdc or 40~160Vdc, See test report for details.



MKZI10-110Sy3Az1, MKZI10-110Sy3z1, MKZI10-x1Dy2Az1, MKZI10x1Dy2z1, MKZI10-x1Sy1Az1 □ Additional Information on page 2

The report was revised to include technical modifications.

IEC 62368-1:2014

2011008-CB-M3 issued on 2021-04-12

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

Date: 2021-04-16

Original Issue Date: 2016-11-25

Signature:

Jan-Erik Storgaard





Additional Model(s):

Series: MKZI10-x1Dy2z1, MKZI10-x1Sy1z1, MKZI10-x1Dy2Az1, MKZI10-x1Sy1Az1, MKZI10-110Sy3z1, MKZI10-110Sy3Az1, MKZI20-x1Dy2z1, MKZI20-x1Sy1z1, MKZI20-x1Dy2Az1, and MKZI20-x1Sy1Az1 Where x1 = 24, 48 or 110, y1 = 05, 12, 15 or 24, y2 = 12 or 15, y3 = 053 or 153, and z1 = blank or -HS.

Additionally evaluated to:

EN 62368-1:2014/A11:2017, EN 62368-1:2014 National Differences specified in the CB Test Report.

Summary of Modifications:

Added alternate schematic and layout (slightly changed).; Updated Table 4.1.2; Added alternate Heat Sink for Q1.; Updated Group Differences are applicable for CENELEC member countries.; Updated Product Description, Description of Enclosure and Model Differences.; Updated Technical Considerations and Engineering Conditions of Acceptability.; Updated Model/Type reference.

Additional information (if necessary)



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