



Ref. Certif. No.

DK-107568-UL

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

MORNSUN GUANGZHOU SCIENCE & TECHNOLOGY CO., LTD.
NO.8, NANYUN ROAD 4, HUANGPU DISTRICT, GUANGZHOU GUANGDONG 510670, CHINA

Name and address of the manufacturer

MORNSUN GUANGZHOU SCIENCE & TECHNOLOGY CO., LTD.
NO.8, NANYUN ROAD 4, HUANGPU DISTRICT, GUANGZHOU GUANGDONG 510670, CHINA

Name and address of the factory

MORNSUN(Huaihua)Science &Technology Co.,Ltd.
No.16,Jianshe Avenue,High-tech Industrial Development District,Huaihua,Hunan, China

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

Additional Information on page 2

Ratings and principal characteristics

Input: 12Vdc, 0.12A or 24 Vdc, 0.06A,
See model list for details.
Output: See model list for details.

Trademark / Brand (if any)



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

Model / Type Ref.

B1203D-1WR3*, B1205D-1WR3*, B1212D-1WR3*,
B1215D-1WR3*, B1224D-1WR3*, B2403D-1WR3*, See Page 2

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

Additional Information on page 2

A 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

S2020110566280102 issued on 2020-12-10

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: 2020-12-21

Signature:

Jan-Erik Storgaard

Model Details:

B1203D-1WR3*, B1205D-1WR3*, B1212D-1WR3*, B1215D-1WR3*, B1224D-1WR3*, B2403D-1WR3*, B2405D-1WR3*, B2412D-1WR3*, B2415D-1WR3*, B2424D-1WR3*, F1203N-1WR3*, F1205N-1WR3*, F1212N-1WR3*, F1215N-1WR3*, F1224N-1WR3*, F2403N-1WR3*, F2405N-1WR3*, F2412N-1WR3*, F2415N-1WR3*, F2424N-1WR3*

Input voltage: 12Vdc 0.12A				
Part number	Output voltage	Output current	Output power	Transformer type
F1203N-1WR3*	3.3V	333mA	1W	51104391
B1203D-1WR3*				(A/0, ..., A/9)
F1205N-1WR3*	5V	200mA	1W	51104392
B1205D-1WR3*				(A/0, ..., A/9)
F1212N-1WR3*	12V	83mA	1W	51104393
B1212D-1WR3*				(A/0, ..., A/9)
F1215N-1WR3*	15V	67mA	1W	51104394
B1215D-1WR3*				(A/0, ..., A/9)
F1224N-1WR3*	24V	42mA	1W	51104395
B1224D-1WR3*				(A/0, ..., A/9)
Input voltage: 24Vdc 0.06A				
F2403N-1WR3*	3.3V	333mA	1W	51104461
B2403D-1WR3*				(A/0, ..., A/9)
F2405N-1WR3*	5V	200mA	1W	51104462
B2405D-1WR3*				(A/0, ..., A/9)
F2412N-1WR3*	12V	83mA	1W	51104464
B2412D-1WR3*				(A/0, ..., A/9)
F2415N-1WR3*	15V	67mA	1W	51104465
B2415D-1WR3*				(A/0, ..., A/9)
F2424N-1WR3*	24V	42mA	1W	51104466
B2424D-1WR3*				(A/0, ..., A/9)

"*" means blank or "-TR" or "-xy", among them: the "-TR" model represents that the product is packaged as a tap package; the "-xy" model represents a customer model, "x" means any letter from A to Z, and "y" means any number from 0 to 9. These suffixes represent variations or selections that are not related to security.

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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