

UL-EU CERTIFICATE

Certificate No.	UL-EU-02310-M2
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Date of Issue	2023-05-18
Certificate Holder	FLEX ELECTRONICS (SHANGHAI) CO LTD 33 FUHUA ROAD,JIADING DISTRICT SHANGHAI 201818 CHINA
Production site	FLEX ELECTRONICS (SHANGHAI) CO LTD 33 FUHUA ROAD,JIADING DISTRICT SHANGHAI 201818 CHINA See Page 2 for additional information
Certified Product	DC-DC Converter
Model	BMR313X1X2X3X4/X5X6X7, BMR314X1X2X3X4/X5X6X7 See page 2 for additional Information
Trademark	flex 
Ratings	(optional) Model BMR313X1X2X3X4/X5X6X7: Input: 38-60Vdc, 22A; Output: 9.5-15Vdc, 0-81A Model BMR314X1X2X3X4/X5X6X7: Input: 38-60Vdc, 19A; Output: 9.5-15Vdc, 0-70A IPX0, Not classified
Tested acc. to	EN 62368-1:2014, EN 62368-1:2014/A11:2017
Test Report No.	E496569-A6043-CB-1 issued on 2023-05-18
Additional	The report was revised to include technical modifications. Summary of modifications: Update definition of suffix X2X3 for model BMR313X1X2X3X4/X5X6X7, see CB Test Report for details. This Certificate replaces the Certificate No. UL-EU-02310-M1 issued on 2023-04-18
Expire date	2024-07-06

Certification Manager
Thomas Wilson
UL International Demko A/S
Borupvang 5A
2750 Ballerup
Denmark

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 UL-EU Requirements. As specified in the respective appendices below the designated Certificate holder is entitled to use the UL-EU Mark, or its alternative for cables, for the Certified Product manufactured at the production site(s) identified above, in accordance with the UL-EU Mark Service Agreement, including without limitation the UL-EU Mark Testing and Certification Services Service Terms. Only those Products bearing the UL-EU Mark for Europe should be considered as being covered by UL's UL-EU 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with the Service Agreement including without limitation if the Standard(s) identified on this Certificate is amended or withdrawn prior the expiration date.

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Factories:

FLEXTRONICS TECHNOLOGY (PENANG) SDN BHD
BUKIT MINYAK INDUSTRIAL PARK S P T
PLOT 131A JALAN PERINDUSTRIAN BUKIT
BUKIT MINYAK SIMPANG AMPAT, PULAU PINANG, 14100
MALAYSIA

Additional Model detail(s):

BMR313X1X2X3X4/X5X6X7

X1 defines the Mechanical pin option

X1=0: Open frame, LGA

X1=1: Base plate, LGA

X1=2-9: TBD

X2X3 is used as sequence number for additional variants

X2X3=00: Not used

X2X3=01: Vin 38-60 V, Vout 9.5-15 V (4:1 ratio), 1000 W continuously, 3000 W peak

X2X3=02-99: TBD

X4 defines the functionality option

X4=0: TBD

X4=1: Stacked module

X4=2-9: TBD

X5X6X7 is used as sequence number for CDA files

X5X6X7 can be a number between 001 and 999

Both general numbers specified in the datasheet and customer unique numbers exist. All CDA sequence number are SW unique. The CDA sequence numbers are listed in 15241-CDA 102 0663. Model number is CDA 102 0663/ X5X6X7.

BMR314X1X2X3X4/X5X6X7

X1=0: Open frame, LGA

X1=1: Base plate, LGA

X1=2-9: TBD

X2X3 is used as sequence number for additional variants

X2X3=00: Not used

X2X3=01: Vin 38-60 V, Vout 9.5-15 V (4:1 ratio), 800 W continuously, 1500 W peak

X2X3=02-99: TBD

X4 defines the functionality option

X4=0: TBD

X4=1: Stacked module

X4=2-9: TBD

X5X6X7 is used as sequence number for CDA files

X5X6X7 can be a number between 001 and 999

Both general numbers specified in the datasheet and customer unique numbers exist. All CDA sequence number are SW unique.

The CDA sequence numbers are listed in 15241-CDA 102 0664. Model number is CDA 102 0664/ X5X6X7

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Certification Mark UL-EU Mark

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



The minimum height of the registered trademark symbol ® shall be 1 mm. When the overall diameter of the UL-EU Mark is less than 9.5 mm, the trademark symbol may be omitted if it is not legible to the naked eye.

The UL-EU 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.

All content shall be in accordance with the details provided on this UL-EU Certificate.

PROCUREMENT

The Production site may reproduce the Mark or obtain it from a UL authorized supplier. The list of UL authorized suppliers can be found on UL's online directory at www.ul.com

Certification Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup
Denmark

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Alternate certification Mark for cables

As an alternative to the UL-EU Mark specified above the alternate UL-EU Mark, displayed below, can appear on certified cables only. Minimum size is not specified, as long as the mark is legible. The following is suggested:

(UL)-EU

The alternate UL-EU 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 UL-EU Certificate.

Certification Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup
Denmark