

# UL-EU CERTIFICATE

<b>Certificate No.</b>	UL-EU-02597
<b>Page</b>	1/5
<b>Date of Issue</b>	2024-12-26
<b>Certificate Holder</b>	FLEX ELECTRONICS (SHANGHAI) CO LTD 33 FUHUA ROAD,JIADING DISTRICT SHANGHAI 201818 CHINA
<b>Production site</b>	FLEX ELECTRONICS (SHANGHAI) CO LTD 33 FUHUA ROAD,JIADING DISTRICT SHANGHAI 201818 CHINA
<b>Certified Product</b>	See Page 2 for additional information
<b>Model</b>	DC-DC Converter BMR316X1X2X3X4/X5X6X7, BMR314X1X2X3X4/X5X6X7, BMR313X1X2X3X4/X5X6X7 See page 2 for additional Information
<b>Trademark</b>	 flex
<b>Ratings</b>	(optional) Model BMR313X1X2X3X4/X5X6X7: Input: 38-60Vdc, 22A, Output: 9.5-15Vdc, 0-81A See page 2 for additional ratings
<b>Tested acc. to</b>	EN IEC 62368-1:2020, EN IEC 62368-1:2020/A11:2020
<b>Test Report No.</b>	E496569-A6050-CB-2 issued on 2024-12-25
<b>Additional Expire date</b>	This Certificate replaces earlier issued certificate No. UL-EU-02479-M1. 2027-02-15

---

**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with the Service Agreement including without limitation if the Standard(s) identified on this Certificate is amended or withdrawn prior the expiration date.

[www.ul.com](http://www.ul.com)



# Appendix UL-EU CERTIFICATE

**Certificate No.** UL-EU-02597

**Page** 2/5

**Date of Issue** 2024-12-26

## **Factories:**

FLEXTRONICS TECHNOLOGY(PENANG)SDN BHD  
BLOK A1, NO.2466, TINGKAT PERUSAHAAN 4A  
KAWASAN PERUSAHAAN PERAI PERAI, Pulau Pinang 13600  
MALAYSIA

## **Additional Model(s):**

### **Series:**

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.

BMR316X1X2X3X4/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, Center tap. Infineon Shasta controller.

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 0316. Model number is CDA 102 0316/ X5X6X7.

# Appendix UL-EU CERTIFICATE

**Certificate No.** UL-EU-02597  
**Page** 3/5  
**Date of Issue** 2024-12-26

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.

## **Ratings:**

Model BMR314X1X2X3X4/X5X6X7:

Input: 38-60Vdc, 19A,

Output: 9.5-15Vdc, 0-70A

Model BMR316X1X2X3X4/X5X6X7:

Input: 38-60Vdc, 22A

Output: 9.5-15Vdc, 0-81A

Class of equipment: Not classified. IPX0

# Appendix UL-EU CERTIFICATE

**Certificate No.** UL-EU-02597

**Page** 4/5

**Date of Issue** 2024-12-26

## **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](http://www.ul.com)

---

**Certification Body**

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

# Appendix UL-EU CERTIFICATE

**Certificate No.** UL-EU-02597

**Page** 5/5

**Date of Issue** 2024-12-26

## **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