UL-EU CERTIFICATE

Certificate No.	UL-EU-02597
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Date of Issue	2024-12-26
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	BMR316X1X2X3X4/X5X6X7, BMR314X1X2X3X4/X5X6X7, BMR313X1X2X3X4/X5X6X7 See page 2 for additional Information
Trademark	flex
Ratings	(optional) Model BMR313X1X2X3X4/X5X6X7: Input: 38-60Vdc, 22A, Output: 9.5-15Vdc, 0-81A See page 2 for additional ratings
Tested acc. to	EN IEC 62368-1:2020, EN IEC 62368-1:2020/A11:2020
Test Report No.	E496569-A6050-CB-2 issued on 2024-12-25
Additional	This Certificate replaces earlier issued certificate No. UL-EU-02479-M1.
Expire date	2027-02-15

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

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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.

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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

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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

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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.