UL-EU CERTIFICATE

Certificate No.	UL-EU-01811
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Date of Issue	2019-11-15
Certificate Holder	Flex Electronics (Shanghai) Co Ltd 33 Fuhua Road,Jiading District Shanghai, 201818 China
Manufacturer	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
Certified Product	DC-DC Converter
Model	BMR454****/***, BMR457****/*** See Page 2-3
Trademark	flex
Rated Voltage / Frequency	See Page 3
Rated Current / Power	See Page 3
Insulation Class	-
Degree of protection (IP)	X0
Tested acc. to	EN 62368-1:2014/A11:2017, EN 62368-1:2014
Test Report No.	E496569-A6006-CB-1 issued on 2019-11-14
Additional	
Expire date	2029-11-14

Certification Manager
Jan-Erik Storgaard
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Denmark

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Model Details:
BMR454****/***
The model series BMR454****/***, with safety identical models, and the following is a description of differences:
1st '*': 0-9 = pin option
2nd '*': 0-1 = mechanical option:
0 = open frame
1 = baseplate
3rd and 4th '*':
00= hardware designed for 9-12Vout. Rating; in= 36-75Vdc, out 9-12Vdc 20 A, max 240VA.
01= hardware designed for 9-12Vout without the digital contact. Rating; in= 36-75Vdc, out 9-12Vdc 20 A, max 240VA.
02= hardware designed for 3.3-5Vout. Rating; in= 36-75Vdc, out 3.3-5Vdc 40 A, max 190VA.
03= hardware designed for 3.3-5Vout without the digital contact. Rating; in= 36-75Vdc, out 3.3-5Vdc 40 A, max 190 VA.
04= hardware designed for 12Vout fixed. Rating; in= 36-75Vdc, out 12Vdc 20 A, max 240VA.
05= hardware designed for 12Vout fixed without the digital contact. Rating; in= 36-75Vdc, out 12Vdc 20 A, max 240VA.
80-99: hardware with label
5th-7th '*': 000-999= software configuration.

BMR457 ****/***
The model series BMR457 ****/*** with safety identical models, and the following is a description of differences:
The first "*" defines the pin option: 0-9
The second "*" defines the mechanical option:0-1:
0 = open frame
1 = baseplate
3 = Upside down mechanical option
4 = Different height of baseplate （see test report for details）
The third and fourth "*" defines variants:
00: hardware optimized for 12Vout. 40-60Vin. Vout can be set from 6.9-13.2V,25A 300W.
01: hardware optimized for 12Vout. 40-60Vin. Vout can be set from 6.9-13.2V, without communication interface, 25A 300W.
04: hardware optimized for 12Vout. 36-75Vin. Vout can be set from 6.9-13.2V,22A 264W.
05: hardware optimized for 12Vout. 36-75Vin. Vout can be set from 6.9-13.2V, without communication interface, 22A 264W.
06: hardware optimized for 12Vout. 36-75Vin. Vout can be set from 6.9-13.2V. Drop function, without communication interface, 22A.261W
07: hardware optimized for 12Vout. 36-75Vin. Vout can be set from 6.9-13.2V. Drop function, with communication interface, 22A.261W
11: hardware optimized for 12Vout. 40-60Vin. Vout can be set from 6.9-13.2V. Drop function, without communication interface, 25A.297W
12: hardware optimized for 12Vout. 40-60Vin. Vout can be set from 6.9-13.2V. Drop function, with communication interface,25A.297W
16: hardware additial optimized for 12Vout. 40-60Vin. Vout can be set from 6.9-13.2V, with communication interface,25A.300W
17: hardware additial optimized for 12Vout. 40-60Vin. Vout can be set from 6.9-13.2V, without communication interface,25A.300W

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18: hardware additial optimized for 12Vout. 36-75Vin. Vout can be set from 6.9-13.2V, with communication interface,25A.264W
19: hardware additial optimized for 12Vout. 36-75Vin. Vout can be set from 6.9-13.2V, without communication interface,25A.264W
80-99: hardware with label
Fifth, sixth and seventh "*": 000-999: software configuration

Ratings:
All ratings are optional, no ratings are required to be printed on product

See test report for complete ratings program

Certification Body

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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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