

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	Flex Electronics (Shanghai) Co., Ltd 33 Fuhua Road, Jiading District, Shanghai, 201818 China
Name and address of the manufacturer	Flex Electronics (Shanghai) Co., Ltd 33 Fuhua Road, Jiading District, Shanghai, 201818 China
Name and address of the factory	Flex Electronics (Shanghai) Co., Ltd 33 Fuhua Road, Jiading District, Shanghai, 201818 China
Note: When more than one factory, please report on page 2	
Ratings and principal characteristics	<input type="checkbox"/> Additional Information on page 2 (optional) BMR481: Vin=40-60Vdc, Iin=2.36A; Vout=0.5-1.35Vdc, Iout=0-70A BMR482: Vin=40-60Vdc, Iin=3.38A; Vout=0.5-1.35Vdc, Iout=0-110A See test report for details <input type="checkbox"/> Additional Information on page 2
Trademark (if any)	
Customer's Testing Facility (CTF) Stage used	CTF Stage 2
Model / Type Ref.	BMR481 0021/002 (MAIN), BMR481 0022 (SATELLITE), BMR481X1X2X3X4/X5X6X7, BMR482 0001/004 (MAIN) BMR482 0002 (SATELLITE), BMR482X1X2X3X4/X5X6X7 <input checked="" type="checkbox"/> Additional Information on page 2 and 3
Additional information (if necessary may also be reported on page 2)	The report was revised to include technical modifications. <input checked="" type="checkbox"/> Additional Information on page 3
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	OFF-4788662006-A-1-M-1 issued on 2021-06-30

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: 2021-06-30
Original Issue Date: 2019-01-23

Signature:
Jan-Erik Storgaard

Additional Model(s):

Series: BMR481X1X2X3X4/X5X6X7 is the generic series model number, it represents:

X1: Mechanical pin option

0: LGA(main); Box pin (satellite), LGA (base board), LGA (controller)

1~9: TBD

X2X3: additional variants

00: For internal use

01: Optimized for Vout 1.8V, Iout 60A, Vadjust range can be set from 1.2 – 2.1V, Trafo 6:1, 40-60Vin, VR13/SVID, 1500Vdc functional isolation without digital isolator

02: Optimized for Vout 1.0V, Iout 70A, Vadjust range can be set from 0.5 – 1.35V, Trafo 9:1, 40-60Vin, PMBus only (but SVID configured), 1500Vdc functional isolation without digital isolator

04-99: TBD

X4: Function option

0: For internal use only

1: open frame (for Main)

2: open frame (for satellite)

3: open frame (for controller product)

4~8: TBD

9: for internal use only

X5X6X7: sequence number for CDA files

X5, X6, X7 can be a number between 000 and 999. Both general numbers specified in the datasheet and customer unique numbers exists.

Standard CDA should be used start from /001

BMR482X1X2X3X4/X5X6X7:

X1 defines the Mechanical pin option

Option	X1	Comment
Standard, Open frame	0	Main: LGA Satellite: Box pin Base board: LGA Controller: LGA
TBD	1-9	

For Main and Satellite products, and Cell components (X2, X3)

X2X3 is used as sequence number for additional variants

X2X3 can be a number between 00 and 99

Additional information (if necessary)



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Additional product set variants	X2X3
Optimized for Vout 0.75V, Iout 100A, Vadjust range can be set from 0.5 – 1.35V, Trafo 10:1, 40-60Vin, 1500Vdc functional isolation without digital isolator	00
Optimized for Vout 1.8V, Iout 100A, 40-60Vin, 8:1 transformer ratio, VR13/SVID, 110 W Test Plan, 1500Vdc functional isolation without digital isolator	50
Optimized for Vout 1.8V, Iout 100A, 54V +/- 10%, 6:1 transformer ratio, VR13/SVID, 110 W Test Plan, 1500Vdc functional isolation without digital isolator	51
TBD	01-49 53-99

For Base board components and Controller products (X2, X3)
X2X3 is used as sequence number for additional variants
X2X3 can be a number between 00 and 99

Additional product set variants	X2X3
For internal use	00
Compatible with the following Cell components: BMR 482 0000 BMR 482 0500 and BMR 482 0510	01
TBD	02-99

Function (X4)

X4 defines the Functionality option

Option	X4	Comment
Component	0	For internal use only. Example: Used for a Cell component used as a part of a Main product
Main product	1	Open Frame
Satellite product	2	Open Frame
Controller product	3	Open Frame
TBD	4-8	
Base board component	9	For internal use only. Example: Used for a Base board component used as a part of a Main product

X5, X6, X7 can be a number between 000 and 999. Both general numbers specified in the datasheet and customer unique numbers exists.

Additionally evaluated to:

EN 62368-1:2014/A11:2017, EN 62368-1:2014
National Differences specified in the CB Test Report.

Summary of Modifications:

- Add models.
- Upgrade CTF stage.


Additional information (if necessary)



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