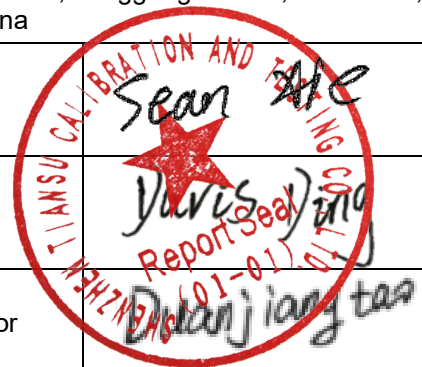




中国认可
国际互认
检测
TESTING
CNAS L5138

TEST REPORT IEC 62619 Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for secondary lithium cells and batteries, for use in industrial applications	
Report Number	TSZ24010334-P02-R01
Date of issue	2024-01-31
Total number of pages	6 Pages
Applicant's name	I-BAN International Corp.
Address	5F., No. 880, Zhongzheng Rd., Zhonghe Dist., New Taipei City 235, Taiwan, China
Test specification:	
Standard	IEC 62619:2022
General disclaimer:	
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing laboratory.	
Test item description	Li-ion Battery Pack
Trade Mark(s)	N/A
Manufacturer	Dongguan Kingin Power Co., Ltd. Room 702, 7th Floor, Building B, Hong Hai Zhigu Industrial Park, No. 50, Fumin Road, Jinxiao Tang, Zhutang Village, Fenggang Town, Dongguan City, China
Model/Type reference	EBS 48100E
Ratings	51.2V, 100Ah, 5.12kWh
Testing Laboratory:	Shenzhen Tiansu Calibration and Testing Co., Ltd.
Testing location/ address	No.2, Jinlong Avenue, Longgang District, Shenzhen, Guangdong, China
Tested by (name, function, signature)	Sean Xie /Test engineer
Reviewed by (name, function, signature) ..	Davis Ding /Reviewer
Approved by (name, function, signature) ..	Duan Jiangtao /Technical director



List of Attachments (including a total number of pages in each attachment):	
Summary of testing:	
Tests performed (name of test and test clause): N/A	Testing location: N/A
The product fulfils the requirements of EN IEC 62619:2022.	

Copy of marking plate:**The artwork below may be only a draft.**

Product Name: Li-ion Battery Pack
Manufacturer: Dongguan Kingin Power Co., Ltd.
Model Name: **EBS 48100E**
IFpP/51/161/120/[16S]M/-20+40/90
Ratings: 51.2V, 100Ah, 5.12kWh
YYYYMMDD0001 Made in China
Recommended Charge: CC/CV 20A of 58.4V, Cutoff current 5.1A
Caution: Risk of fire and burns, follow manufacturer's instructions,
disposal of batteries should follow local regulations.

Polarity:**Remark:**

- 1: The date code "YYYYMMDD0001"
- 1.1: YYYY stands for year.
- 1.2: MM stands for month.
- 1.3: DD stands for date.
- 1.4: 0001 represents the flow code

Test item particulars:																																												
Classification of installation and use: To be defined in final product																																												
Supply Connection: DC connector																																												
Possible test case verdicts:																																												
- test case does not apply to the test object..... : N/A																																												
- test object does meet the requirement..... : P (Pass)																																												
- test object does not meet the requirement..... : F (Fail)																																												
Testing :																																												
Date of receipt of test item : N/A																																												
Date (s) of performance of tests : N/A																																												
General remarks:																																												
"(See Enclosure #)" refers to additional information appended to the report.																																												
"(See appended table)" refers to a table appended to the report.																																												
Throughout this report a <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.																																												
Name and address of factory (ies) : Same as manufacturer																																												
General product information and other remarks:																																												
The battery of model EBS 48100E is composed of sixteen lithium-ion cells (16S1P), and equipped with overcharge, overdischarge, overcurrent, and short circuit protection circuits.																																												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;"></th> <th style="width: 30%; text-align: center;">Cell</th> <th style="width: 30%; text-align: center;">Battery</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Model</td> <td style="text-align: center;">LF100LA</td> <td style="text-align: center;">EBS 48100E</td> </tr> <tr> <td style="text-align: center;">Rated capacity(Ah)</td> <td style="text-align: center;">102</td> <td style="text-align: center;">100</td> </tr> <tr> <td style="text-align: center;">Nominal voltage(V)</td> <td style="text-align: center;">3.2</td> <td style="text-align: center;">51.2</td> </tr> <tr> <td style="text-align: center;">Recommended Charge Current(A)</td> <td style="text-align: center;">50</td> <td style="text-align: center;">20</td> </tr> <tr> <td style="text-align: center;">Maximum Charge Current(A)</td> <td style="text-align: center;">100</td> <td style="text-align: center;">95</td> </tr> <tr> <td style="text-align: center;">Recommended Discharge Current(A)</td> <td style="text-align: center;">50</td> <td style="text-align: center;">20</td> </tr> <tr> <td style="text-align: center;">Maximum Discharge Current(A)</td> <td style="text-align: center;">250</td> <td style="text-align: center;">100</td> </tr> <tr> <td style="text-align: center;">Maximum Charge Voltage(V)</td> <td style="text-align: center;">3.9</td> <td style="text-align: center;">58.4</td> </tr> <tr> <td style="text-align: center;">End-of-discharge Voltage(V)</td> <td style="text-align: center;">1.9</td> <td style="text-align: center;">40</td> </tr> <tr> <td style="text-align: center;">Charge temperature Range(°C)</td> <td style="text-align: center;">0 to 65</td> <td style="text-align: center;">0 to 55</td> </tr> <tr> <td style="text-align: center;">Discharge temperature Range(°C)</td> <td style="text-align: center;">-30 to 65</td> <td style="text-align: center;">-20 to 60</td> </tr> <tr> <td style="text-align: center;">Nominal mass(kg)</td> <td style="text-align: center;">1.98±0.1</td> <td style="text-align: center;">44.915</td> </tr> <tr> <td style="text-align: center;">External dimensions(mm)</td> <td style="text-align: center;">49.9±1.0*160.0±1.0*118.5±1.0</td> <td style="text-align: center;">480±1.0*460±1.0*145±1.0</td> </tr> </tbody> </table>				Cell	Battery	Model	LF100LA	EBS 48100E	Rated capacity(Ah)	102	100	Nominal voltage(V)	3.2	51.2	Recommended Charge Current(A)	50	20	Maximum Charge Current(A)	100	95	Recommended Discharge Current(A)	50	20	Maximum Discharge Current(A)	250	100	Maximum Charge Voltage(V)	3.9	58.4	End-of-discharge Voltage(V)	1.9	40	Charge temperature Range(°C)	0 to 65	0 to 55	Discharge temperature Range(°C)	-30 to 65	-20 to 60	Nominal mass(kg)	1.98±0.1	44.915	External dimensions(mm)	49.9±1.0*160.0±1.0*118.5±1.0	480±1.0*460±1.0*145±1.0
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1) At the request of the customer, add applicants and change their corresponding models, other information remains unchanged;																																												
2) Change the applicant's name from " Shenzhen Lead New Energy Co., Ltd " to " I-BAN International Corp. ", See Page 1;																																												
3) Change model from " LD BOX51.2V100Ah " to " EBS 48100E ", See Page 1;																																												
For above change, No related test was considered necessary.																																												

Product Photo

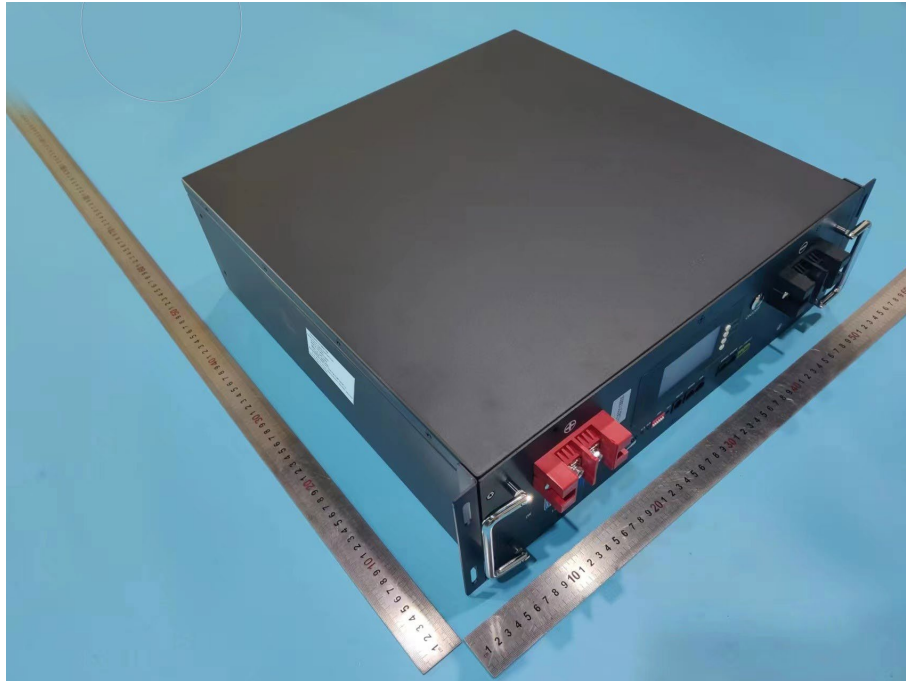


Figure 1 Front view of battery system

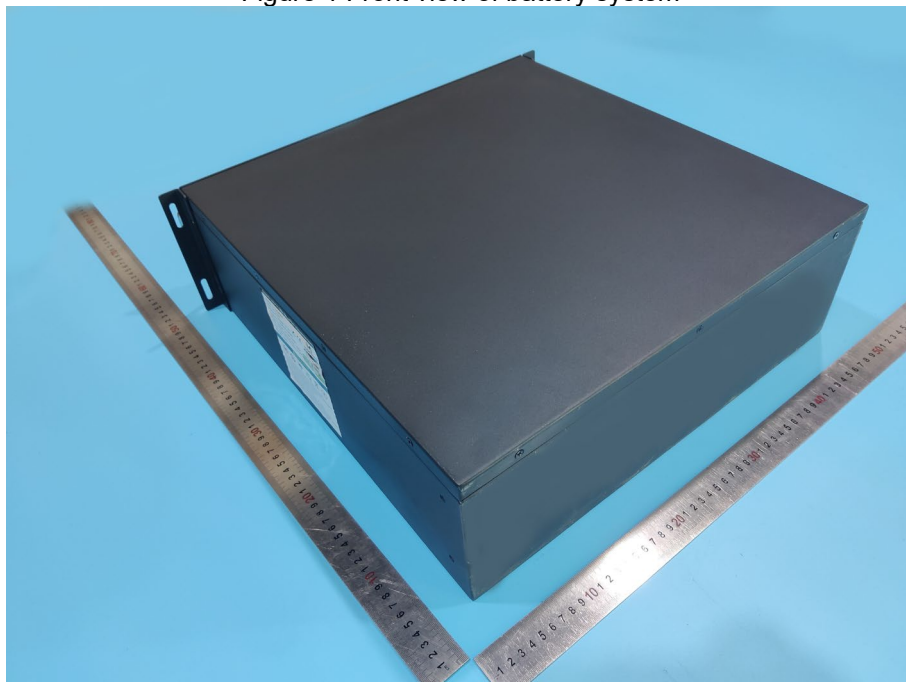


Figure 2 Back view of battery system

Amendment sheet:

Revision	Issue Date	Revision Content	Revised By
0	2024-01-29	Original report	Sean Xie
1	2024-01-31	At the request of the customer, add applicants and change their corresponding models, other information remains unchanged. This report is based on the report No. TSZ24010334-P01-R01, there is no need to retest, this report is invalid without the original report	Sean Xie