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Test Report issued under the responsibility of:



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...... BL-DG21B0724-301

Date of issue.....: 2021-12-30

Total number of pages...... 23

Name of Testing Laboratory

preparing the Report.....: Dongguan BALUN Testing Technology Co., Ltd.

Address...... Room 2304-2 Block B, Zhihuijiayuan 76 Baohe Avenue Baolong

Street Shenzhen, Guangdong 518116 China

Test specification:

Standard.....: IEC 62619: 2017

Test procedure....: CB Scheme

Non-standard test method.....: N/A

Test Report Form No.....: IE62619A

Test Report Form(s) Originator....: UL(Demko)

Master TRF.....: Dated 2017-11-16

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Test item description:		Secondary Lithium-ion Battery			
Trade Mark: ZRG		ZRGP	ZRGP		
Manufacturer: Same		Same	ame as applicant.		
Model/Type reference: ZR-PB		PBX1			
Ratings : 51.2V,		V, 100Ah, 5120Wh			
'					
Resp	oonsible Testing Laboratory (as a	pplicat	ole), testing procedure	and testing location(s):	
		Dongguan BALUN Testing Technology Co., Ltd.			
Testing location/ address:			No. 6 Industrial South Road, Songshan Lake District, Dongguan, Guangdong, China		
Tested by (name, function, signature):			Van Xu (Engineer)	Van Xu	
Approved by (name, function, signature):			Simon Qi (Reviewer)	Smon Qi	
	Testing procedure: CTF Stage 1:	<u> </u>			
Testing location/ address:					
Tested by (name, function, signature):					
Approved by (name, function, signature):					
	Testing procedure: CTF Stage 2:				
Testing location/ address:					
Tested by (name + signature):					
Witnessed by (name, function, signature):					
Approved by (name, function, signature):					
	Tanting property of CTF Stage 2				
	Testing procedure: CTF Stage 3:				
Testing procedure: CTF Stage 4:					
Testing location/ address:					
Tested by (name, function, signature):					
Witnessed by (name, function, signature):					
Approved by (name, function, signature):					
Supervised by (name, function, signature) :					

List of Attachments (including a total number of pages in each attachment):						
See to ANNEX 1: PHOTOS						
Summary of testing:						
Tests performed (name of test and test clause):	Testing location:					
cl. 7.2.1 External short circuit test (cell or cell block)	Dongguan BALUN Testing Technology Co., Ltd.					
cl. 7.2.2 Impact test (cell or cell block) cl. 7.2.3 Drop test (cell or cell block, and battery	No. 6 Industrial South Road, Songshan Lake District, Dongguan, Guangdong, China					
system) cl. 7.2.4 Thermal abuse test (cell or cell block)						
cl. 7.2.5 Overcharge test (cell or cell block) cl. 7.2.6 Forced discharge test (cell or cell block)						
cl. 7.3.2 Internal short-circuit test (cell) cl. 8.2.2 Overcharge control of voltage (battery						
system) cl. 8.2.3 Overcharge control of current (battery						
system) cl. 8.2.4 Overheating control (battery system)						
Number of samples required for testing: 23 cells						
(C1-C23) and 2 batteries (B1-B2).						
Tests are made with the number of batteries specified in IEC 62619: 2017 Table 1.						
Summary of compliance with National Differences (List of countries addressed):						
N/A						