

LITHIUM BATTERY TEST SUMMARY AND SUPPLIER INQUIRY

IN ACCORDANCE WITH SUB-SECTION 38.3
OF MANUAL OF TESTS AND CRITERIA

N/A = Not Applicable

1. Name/Description of battery
LiFePO4

1a. Name/Description of the cells inside the battery
Li-on cells

The test summary of the cells inside the battery must either be presented or under checkpoint 9 and 9a it must be confirmed that the UN 38.3 test summary for the cells is available.

2. Manufacturer of battery	
Name	Shandong Goldencell Electronics Technology Co., Ltd.
Address	Fuyuan 5 Road, Thailand Industrial Park, Hi-Tech District, Zaozhuang, Shandong, China
Phone	5 Fuyuan Road, Hi-Tech District, Zaozhuang, Shandong, P.R. China
Email	od02@goldencell.biz
Website	http://www.goldencellbattery.cn

2a. Manufacturer of the equipment (if the battery is contained in equipment)	
Name	Haotian Electronic Co., Ltd
Address	No.23 Taiyu Road, Taifeng Industrial Area, Xiaolan Town, Zhongshan City, Guangdong Province, China
Phone	+86 760 22180561
Email	jessie@howtim.com
Website	www.howtim.com

3. Test laboratory of battery	
Name	Vkan Certification & Testing Co., Ltd.
Address	No.3, Tiantaiyi Road, Kaitai Avenue, Science City, Guangzhou P. R. China.
Phone	86-020-32293888
Email	office@cvc.org.cn
Website	http://www.cvc.org.cn

4. ID-number and date			
Unique test report identification number	RZUN2019-0202-TS	Date of test report	2019-01-22

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DESCRIPTION OF BATTERY

5. Mark the type of battery with an "●"

<input checked="" type="radio"/> Lithium ion battery	Lithium metal battery <input type="radio"/>
<input type="radio"/> Lithium hybrid battery	

6. Parameters

Mass in gram (g):	40g
Lithium ion: Indicate watt-hour rating (Wh):	≤ 100
Lithium metal: Indicate lithium metal content in gram (g):	
Lithium hybrid: Indicate lithium metal content in gram (g) and watt-hour rating (Wh):	g Wh

7. Physical description of battery

LiFePO4

8. Model numbers

IFR18650

TESTS AND RESULTS

9. List of tests conducted and results - Mark N/A, pass or fail with an "●"	N/A	pass	fail
T1 - Altitude simulation	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
T2 - Thermal Test	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
T3 - Vibration	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
T4 - Shock	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
T5 - External Short Circuit	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
T6 - Impact - for cylindrical cells having a diameter of at least 18 mm See check point 1a and 9a.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
T6 - Crush - for prismatic cells, pouch cells, button cells and cylindrical cells having a diameter of less than 18 mm. See check point 1a and 9a.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
T7 - Overcharge	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
T8 - Forced Discharge, only valid for cells. See check point 1a and 9a.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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9a. UN 38.3 Test Confirmation for the Cells inside the battery

When no separate document for the cells is provided, this confirms that the cells inside the battery (see checkpoint 1.a.) have successfully passed the UN 38.3 test. In this case under checkpoint 9 the T.6 and T.8 must be marked as „passed“ and here under 9.a. „Cell UN 38.3 Test confirmed“ needs to be ticked.



Cell
UN 38.3 Test
confirmed

Cell
UN 38.3 Test
NOT
confirmed



10. Reference to assembled battery testing requirements

N/A



11. Reference to the revised edition of the Manual of Tests and Criteria used and to amendments thereto

N/A

ADDITIONAL SUPPLIER INQUIRY

12. Quality management system for manufacturing batteries

Does the manufacturer of the battery manufacture the products based on a documented quality management system according to transport regulations?



YES

NO



13. Are the following parameters exceeded?

Lithium ion battery: more than 100 Wh

Lithium metal battery: more than 2 g Lithium

Lithium hybrid Battery: more than 1,5 g Lithium and/or more than 10 Wh



YES

NO



Check point 14 – 16 need to be answered when 13 has been ticked "YES":

14. Does each battery incorporate a safety venting device or is designed to preclude a violent rupture under normal conditions of carriage?



YES

NO



15. Is each battery equipped with an effective means of preventing external short circuits?



YES

NO



16. Is each battery containing cells or series of cells connected in parallel equipped with effective means as necessary to prevent dangerous reverse current flow (e.g. diodes, fuses, etc.)?



N/A



YES

NO



17. Only in air transport: State of Charge (SoC) for UN 3480 Lithium ion batteries and lithium polymer batteries

State of Charge (SoC) max. 30 %



N/A



YES

NO



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BATTERIES INSTALLED IN EQUIPMENT

18. Check point 18 needs to be answered when the batteries are installed in articles:				
18.a) Only button cells enclosed?	<input type="radio"/>	YES	NO	<input checked="" type="radio"/>
18.b) Number of enclosed batteries per equipment	1			
When the equipment is intentionally active/switched on during transport e.g. data loggers:				
18.c) Confirmation that no dangerous amount of heat is emitted from the equipment	<input type="radio"/>	N/A	<input checked="" type="radio"/>	YES
			NO	<input type="radio"/>
18.d) Confirmation that the equipment when transported by air fulfills the defined air transport standards for electromagnetic radiation according to DO-160	<input checked="" type="radio"/>	N/A	<input type="radio"/>	YES
			NO	<input type="radio"/>

19. Place, Date	20. Title, Surname, First name	21. Company stamp and signature
Zhongshan 2020-7-31	Sales Jessie Lee	