TEST SUMMARY FOR LITHIUM BATTERIES AND SUPPLIER INQUIRY

ACCORDING TO SUBSECTION 38.3 OF THE UN TESTING MANUAL

N/A = not applicable

1. Name / designation of the battery

LI-ION BATTERY DCLi20, 18V, 4.0Ah (TJEP #124204-all versions)

1a. Name / designation of the cells contained in the battery

HIGHSTAR 3.7V 2000mAh ISR18650-2000 LI-ION

The test summary of the cells within the battery must either also be submitted or at Points 9 and 9a must be confirmed that the UN 38.3 examination summary for the cells is available.

Z. Manurac	cturer of the battery	
Name	JIANGSU HIGHSTAR BATTERY MANUFACTURING CO., LTD.	
Address	No. 899, Nanyuan West Road, Qidong, Jiangsu	
Phone	0086 -513-83312776	
Email	highstar@highstar.net.cn	The Swill
Website	http://www.highstar.net.cn	

2a. Manufa	cturer of the device (if battery is installed in the device)
Name	TAIZHOU XINDALU ELECTRONIC TECHNOLOGY CO, LTD.
Address	NO. 167, NANHUAN ROAD, WENLING, ZHEJIANG, CHINA
Phone	0086-576-86229788
Email	Sales01@xdldz.com
Website	www.xdldz.com

3. Test lab	oratory
Name	Shanghai Research Institute of Chemical Industry Testing Co., Ltd.
Address	No. 345, East Yunling Road, Shanghai
Phone	0086-21-31765555
Email	zmb@ghs.cn
Website	www.ghs.cn

4. ID number and date					
Unique test report identification no.	1119090378	Date of report	2019-12-18		



TEST SUMMARY FOR LITHIUM BATTERIES AND SUPPLIER INQUIRY

ACCORDING TO SUBSECTION 38.3
OF THE UN TESTING MANUAL

Name/designation	of	battery	(from	field 1))	
				8	

DESCRIPTION OF THE BATTERY

5. Mark the battery type with "x" •	
X Lithium-ion battery	Lithium metal battery
Lithium hydride battery	
6. Parameters	
Mass in grams (g):	584
Lithium-ion: Watt hour rating (Wh):	72 *
Lithium metal: Lithium content in grams (g):	
Lithium hybrid: lithium content in grams (g) and watt	-hour rating (Wh) g Wh
7. Physical description of the battery	ŧ
Black plastic shell, rechargeable Lithium-ion batte	rry
8. Model numbers	
DCLI20, VB0172EU, 72700196	

TESTS AND RESULTS

9. List of tests and results carried out Mark 'N/A', 'passed' or 'failed' with "x" •	N/A	Passed	Failed
T1 - Height simulation	0	Ox	0
T2 - Thermal test	0	Ох	0
T3 - Vibration	0	Ox	0
T4 - Impact/blow	0	Ох	0
T5 - External short circuit	0	Ох	0
T6 - Impact-for cylindrical cells with a diameter of at least 18 mm See points 1a and 9a	0	Ох	0
T6 - Pinch - for prismatic cells, pouch cells, button cells and cylindrical ones	0	0	0
T7 - Overload	0	Ох	0
T8 - Forced discharge, only applies to the cells, see items 1a and 9a	0	Ох	0

TEST SUMMARY FOR LITHIUM BATTERIES AND SUPPLIER INQUIRY Name/designation of battery (from field 1)) **ACCORDING TO SUBSECTION 38.3** OF THE UN TESTING MANUAL 9a. UN 38.3 Test confirmation for the cells inside the battery Cell If no separate document is provided for the battery cells, this field cell UN 38.3 confirms that the cells inside the battery (see point 1.a.) have UN 38.3 test successfully passed the UN38.3 test series. In this case, Point 9 test NOT (T.6) and (T.8) must be marked as "passed". Furthermore Point 9.a. passed passed must be marked "Cell UN 38.3 test passed". 10. Reference to test requirements for assembled batteries N/A 11. Reference to the revised version of the manual used for reviews and criteria and any changes to ST/SG/AC.10/11/Rev.6 Amend.1 38.3 UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS" Manual of Tests and Criteria ST/SG/AC.10/11/REV.6 Amend.1 Section 38.3 ADDITIONAL SUPPLIER INQUIRIES 12. Quality management system for the manufacture of batteries Are the battery manufactured according to a documented QM system, No that meets the requirements of the regulations? 13. Have the following parameters been exceeded? Yes No Lithium-ion battery: more than 100 Wh Lithium metal battery: more than 2 g of lithium Lithium hybrid battery: more than 1.5 g of lithium and/or more than 10 Wh Points 14-16 must be answered if the parameters in point 13 are exceeded: 14. Is every battery provided with a protective device against internal



overpressure or designed so that a violent breach under normal

15. Is every battery equipped with an effective device for preventing

16. Is each battery equipped with cells connected in parallel or rows of

protectiion against dangerous reverse current (e.g. diodes, fuses, etc.)?

cells connected in parallel which are equipped with an active

transportation conditions is prevented?

short circuits?

Version 2/2019



Yes

Yes

Yes

No

No

No

TEST SUMMARY FOR LITHIUM BATTERIES AND SUPPLIER INQUIRY

17. Only for air freight of lithium-ion batteries and lithium-polymer batteries:

ACCORDING TO SUBSECTION 38.3 OF THE UN TESTING MANUAL

Name/designation	of battery (from field 1))
		,

Charge level (SoC) f	or UN 3480				
Charge level (So	C) max. 30%		O N/A	O _x Yes	No O
BATTERIES BUILT I	NTO DEVICES				
18. Point 18 must be	answered if batteries are installed i	in devices :			
18.a) Only include b	18.a) Only include button cell batteries?				,No X
18.b) Number of bat	18.b) Number of batteries included (without button cell batteries) per device				
When the device is i	ntentionally active / switched on dur	ing transport	, e.g. Data Logg	er:	
18.c) Confirmation tha	t the device does not generate dangerou	us heat.	O N/A	O _x Yes	No
18.d) Confirmation th standards for ele	at the device for air shipment meets the ectromagnetic radiation according to D	ne defined 10-160	O N/A	O _x Yes	No
19. Place, Date	20. Name		21. Company stan		
Zhejiang, Wenling 2020-06-04	Zheng Qinxian		台州市新大 TAIZHOUXINDALUI	陆电子科型 LECTRONIC IX	有限公司 NO LOGY CO, LTD
					19.00