

# LOGISTIC INFORMATION AND UN 38.3 TEST SUMMARY

in accordance with manual of tests and criteria

7. revised edition, amendment 1, subsection 38.3.5

N/A = Not Applicable

<b>1. Name/Description of cell</b>
CR123A Manganese Dioxide Battery

<b>2. Manufacturer of cell</b>	
Name	Huizhou Huiderui Lithium Battery Technology Co.,Ltd
Address	No. 4, Xingye Avantage, Chenjiang, Zhongkai Hi-Tech Development Zone, Huizhou, Guangdong 516029, PRC China
Phone	0752-2652536
Email	liuzq@huiderui.com
Website	www.huiderui.com

<b>2a. Manufacturer of the equipment (if the cell is contained in equipment)</b>	
Name	2direct GmbH
Address	Langenstück 5, 58579 Schalksmühle, Germany
Phone	+49235166887-0
Email	info@2direct.de
Website	www.2direct.de

<b>3. Test laboratory of cell</b>	
Name	Shanghai Institute of Chemical Industry Testing Co., Ltd
Address	No.345 East Yunling Road, Putuo, Shanghai 200062, PRC China
Phone	86-21-31765555
Email	battery@ghs.cn
Website	www.ghs.cn

<b>4. ID number and date</b>			
Unique test report identification number	1122110495	Date of test report	2022-12-31

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## DESCRIPTION OF CELL

<b>5. Mark the type of cell with an "•"</b> Note: Single cell batteries (1S1P) are treated as cells, i.e. using this logistic information form is correct.	
<input type="radio"/> Lithium ion cell	Lithium metal cell <input checked="" type="radio"/>

<b>6. Parameters</b>	
Weight of the cell in gram (g) or kilogram (kg)	16.8 g
Lithium ion: Nominal energy in Watt-hours (Wh) or kilo Watt-hours (kWh)	Wh
Lithium metal: Lithium metal content in gram (g) or kilogram (kg)	0.51 g

<b>7. Physical description of cell</b>
cylindrical cell 1600mAh

<b>8. Model numbers</b>
Logilink SC0123

## TESTS AND RESULTS

9. List of tests conducted and results - Mark N/A, pass or fail with an "•"	N/A	pass
T1 - Altitude simulation		✓
T2 - Thermal Test		✓
T3 - Vibration		✓
T4 - Shock		✓
T5 - External Short Circuit		✓
T6 - Impact - for cylindrical cells having a diameter of at least 18 mm	✓	
T6 - Crush - for prismatic cells, pouch cells, button cells and cylindrical cells having a diameter of less than 18 mm		✓
T7 - Overcharge	✓	
T8 - Forced Discharge		✓



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

## ADDITIONAL SUPPLIER INQUIRY

<b>11. Quality management system for manufacturing cells</b> Does the manufacturer of the cell/battery manufacture the products based on a documented quality management system according to transport regulations?	<input checked="" type="radio"/>	YES	NO	<input type="radio"/>
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<b>12. Are the following parameters exceeded?</b> Lithium ion cell: more than 20 Wh Lithium metal cell: more than 1 g Lithium	<input type="radio"/>	YES	NO	<input checked="" type="radio"/>
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<b>Check point 13 – 15 need to be answered when 12 has been ticked "YES":</b>				
<b>13.</b> Does each cell incorporate a safety venting device or is designed to preclude a violent rupture under normal conditions of carriage?	<input checked="" type="radio"/>	YES	NO	<input type="radio"/>
<b>14.</b> Is each cell equipped with an effective means of preventing external short circuits?	<input checked="" type="radio"/>	YES	NO	<input type="radio"/>
<b>15.</b> 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.)		Not relevant for cells	N/A	<input checked="" type="radio"/>

## CELLS INSTALLED IN EQUIPMENT

<b>16. Check point 16 needs to be answered when the cells are installed in articles:</b>						
<b>16.a)</b> Only button cells enclosed?	<input type="radio"/>	YES	NO	<input checked="" type="radio"/>		
<b>16.b)</b> Number of enclosed cells (other than button cells) per equipment	1					
<b>When the equipment is intentionally active/switched on during transport e.g. data loggers:</b>						
<b>16.c)</b> Confirmation that no dangerous amount of heat is emitted from the equipment	<input checked="" type="radio"/>	N/A	<input type="radio"/>	YES	NO	<input type="radio"/>
<b>16.d)</b> 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"/>

<b>17. Place, Date</b>	<b>18. Name and title of the responsible person</b>
Schalksmühle, 08.08.2024	Marcus Grüter Productmanager

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