

LITHIUM CELL 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 cell
Keepower 18500; 1500 mAh

2. Manufacturer of cell	
Name	Keepower Technology CO., Limited
Address	5F, Bldg 4, Fenmenao Industrial Park, Bantian, Long Gang, Shenzhen 518129, China
Phone	+86 75589956056807
Email	info@keepower.com.cn
Website	www.keppower.com.cn

2a. Manufacturer of the equipment (if the cell is contained in equipment)	
Name	
Address	
Phone	
Email	
Website	

3. Test laboratory of cell	
Name	Shenzhen SEM. Test Technology Co.,Ltd
Address	1/F, Building A. Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen
Phone	+86 75533663308
Email	sem@semtest.com.cn
Website	www.semtest.com.cn

4. ID-number and date			
Unique test report identification number	STR170391595	Date of test report	14.03.2017

DESCRIPTION OF CELL

5. Mark the type of cell with an "•"	
<input checked="" type="radio"/> Lithium ion cell	<input type="radio"/> Lithium metal cell

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6. Parameters	Cell
Mass in gram (g):	39,6
Lithium ion: Indicate watt-hour rating (Wh):	5,55
Lithium metal: Indicate lithium metal content in gram (g):	

7. Physical description of cell
Li-Ion

8. Model numbers
1ICR19/49

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	<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	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
T7 - Overcharge	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
T8 - Forced Discharge	<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"/>

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

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ADDITIONAL SUPPLIER INQUIRY

11. Quality management system for manufacturing cells 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	<input type="radio"/>	NO	<input type="radio"/>
12. Are the following parameters exceeded? Lithium ion cell: more than 20 Wh Lithium metal cell: more than 1 g Lithium	<input type="radio"/>	YES	<input type="radio"/>	NO	<input checked="" type="radio"/>
Check point 13 – 15 need to be answered when 12 has been ticked "YES":					
13. Does each cell incorporate a safety venting device or is designed to preclude a violent rupture under normal conditions of carriage?	<input type="radio"/>	YES	<input type="radio"/>	NO	<input type="radio"/>
14. Is each cell equipped with an effective means of preventing external short circuits?	<input type="radio"/>	YES	<input type="radio"/>	NO	<input type="radio"/>
15. 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 type="radio"/>
16. Only in air transport: State of Charge (SoC) for UN 3480 Lithium ion cells and lithium polymer cells					
State of Charge (SoC) max. 30 %	<input type="radio"/>	N/A	<input checked="" type="radio"/>	YES	<input type="radio"/>

CELLS INSTALLED IN EQUIPMENT

17. Check point 17 needs to be answered when the cells are installed in articles:					
17.a) Only button cells enclosed?	<input type="radio"/>	YES	<input type="radio"/>	NO	<input type="radio"/>
17.b) Number of enclosed cells (other than button cells) per equipment					
When the equipment is intentionally active/switched on during transport e.g. data loggers:					
17.c) Confirmation that no dangerous amount of heat is emitted from the equipment	<input type="radio"/>	N/A	<input type="radio"/>	YES	<input type="radio"/>
17.d) Confirmation that the equipment when transported by air fulfills the defined air transport standards for electromagnetic radiation according to DO-160	<input type="radio"/>	N/A	<input type="radio"/>	YES	<input type="radio"/>

18. Place, Date	19. Title, Surname, First name	20. Company stamp and signature
Schonach, 20.12.2019	Wernet Armin	<div> <div> Wiha Werkzeuge GmbH Oberteilstraße 3-7 76136 Schonach/Germany Tel. +49 7722 959-0 Fax +49 7722 959-159 info.de@wiha.com </div> <div>   www.wiha.com </div> </div>