

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
Protected 18500; 1500mAh

1a. Name/Description of the cells inside the battery
ICR18500

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	Keeppower Technology Co. LTD
Address	5F, Bldg 4, Fengmenao Industrial Park, Bantian, Longgang District, Shenzhen 518129, China
Phone	+86 755 8995 6056
Email	info@keeppower.com.cn
Website	https://www.keeppower.com.cn

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

3. Test laboratory of battery	
Name	Shenzhen SEM. Test Technology Co., LTD
Address	1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen
Phone	+86 755 3366 3308
Email	sem@semtest.com.cn
Website	http://en.semtest.com.cn/

4. ID-number and date			
Unique test report identification number	STR18059028S	Date of test report	04.05.2018

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DESCRIPTION OF BATTERY

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

☒	Lithium ion battery	Lithium metal battery	☐
☐	Lithium hybrid battery		

6. Parameters

Mass in gram (g):	39,6
Lithium ion: Indicate watt-hour rating (Wh):	5,55
Lithium metal: Indicate lithium metal content in gram (g):	<0,9
Lithium hybrid: Indicate lithium metal content in gram (g) and watt-hour rating (Wh):	g Wh

7. Physical description of battery

Li-Ion

8. Model numbers

Protected 18500; 1500mAh
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	☐	☒	☐
T2 - Thermal Test	☐	☒	☐
T3 - Vibration	☐	☒	☐
T4 - Shock	☐	☒	☐
T5 - External Short Circuit	☐	☒	☐
T6 - Impact - for cylindrical cells having a diameter of at least 18 mm See check point 1a and 9a.	☐	☒	☐
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.	☐	☒	☐
T7 - Overcharge	☐	☒	☐
T8 - Forced Discharge, only valid for cells. See check point 1a and 9a.	☐	☒	☐
	☐	☐	☐
	☐	☐	☐

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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

UN38.3
Rev.6/Amend.1

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 incorporates 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?	☐	YES	☐	NO	☐
18.b) Number of enclosed batteries per equipment					
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	☐	N/A	☐	YES	☐
18.d) Confirmation that the equipment when transported by air fulfills the defined air transport standards for electromagnetic radiation according to DO-160	☐	N/A	☐	YES	☐

19. Place, Date	20. Title, Surname, First name	21. Company stamp and signature
Schonach, 12.02.2020	Wernet, Armin	 Wiha Werkzeuge GmbH Obertastraße 3-7 78136 Schonach/Germany Tel. +49 7722 959-0 Fax +49 7722 959-159 info.de@wiha.com <i>i.v. A. Wernet</i> www.wiha.com