

LITHIUM CELL/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 of cell / battery
Li-ion Battery ICR 18650-2000mAh For 1/2" 18V Li-ion Brushless Cordless Impact Wrench

2. Manufacturer of cell / battery	
Name	Jiangxi Yunfuheng New Energy Co.,LTD
Address	yichun economic and technological development zone,jiangxi,P.R.China
Phone	+86-15818562009
Email	13760400070@126.com
Website	http://www.yfhxny.com/

3. Test laboratory of cell / battery	
Name	Shanghai Research Institute Of Chemical Industry Testing Centre
Address	NO.345 Yunling East Road ,Shanghai City,China
Phone	021-31765555
Email	zmh@ghs.cn
Website	www.ghs.cn

4. ID-number and date			
Unique test report identification number	1120040415	Date of test report	2020-05-27

DESCRIPTION OF CELL / BATTERY

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

6. Parameters	Cell	Battery
Mass in gram (g):	43g	
Lithium ion: Indicate watt-hour rating (Wh):	7.4Wh	
Lithium metal: Indicate lithium metal content in gram (g):	1.1g	
Lithium hybrid: Indicate lithium metal content in gram (g) and watt-hour rating (Wh):		g Wh

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Name of cell/battery (taken from field 1)

Li-ion Battery ICR 18650-2000r

7. Physical description of cell / battery

ICR 18650

8. Model numbers

ICR 18650

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 / Crush	<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	<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 assembled battery testing requirements

UN38.3

N/A

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

Rev.6

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Name of cell/battery (taken from field 1)

Li-ion Battery ICR 18650-2000n

ADDITIONAL SUPPLIER INQUIRY

12. Quality management system for manufacturing cells / batteries

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
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13. Are the following parameters exceeded?

Lithium ion cell: more than 20 Wh
Lithium ion battery: more than 100 Wh
Lithium metal cell: more than 1 g Lithium
Lithium metal battery: more than 2 g Lithium
Lithium hybrid Battery: more than 1,5 g Lithium and/or more than 10 Wh

<input type="radio"/>	YES	<input type="radio"/>	NO
<input checked="" type="radio"/>		<input checked="" type="radio"/>	

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

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

<input checked="" type="radio"/>	YES	<input type="radio"/>	NO
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15. Is each cell / battery equipped with an effective means of preventing external short circuits?

<input checked="" type="radio"/>	YES	<input type="radio"/>	NO
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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.)?

<input checked="" type="radio"/>	N/A	<input type="radio"/>	YES	<input type="radio"/>	NO
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17. Only in air transport: State of Charge (SoC) for UN 3480 Lithium ion cells/batteries and Lithium polymer cells/batteries

State of Charge (SoC) max. 30 %

<input checked="" type="radio"/>	YES	<input type="radio"/>	NO
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CELLS/BATTERIES INSTALLED IN EQUIPMENT

18. Check point 18 needs to be answered when the cells / batteries are installed in articles:

18.a) Only button cells enclosed?

<input checked="" type="radio"/>	YES	<input type="radio"/>	NO
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18.b) Number of enclosed cells (other than button cells)/batteries per equipment

Enclosed cells per equipment	Enclosed batteries per equipment
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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	<input type="radio"/>	NO
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18.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 checked="" type="radio"/>	YES	<input type="radio"/>	NO
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19. Place, Date	20. Title, Surname, First name	21. Company stamp and signature
2023-3-14	Gravin Huo	Wu Yi S-Long hardware co., LTD.

武义县盛隆金属制品有限公司
WUYI S-LONG HARDWARES CO., LTD.

