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
LINDHAUS/Mod. Li.36/6 36V/6.0 Ah/10S2P

2. Manufacturer of cell / battery	
Name	AKKU POWER GMBH Batteries
Address	Paul-Strähle-Straße 26, 73614 Schorndorf, Germany
Phone	+49 7181 97735-0
Email	info@akku-power.com
Website	akku.power.com

3. Test laboratory of cell / battery	
Name	SLG Prüf- und Zertifizierungs GmbH
Address	Burgstädter Str. 20, 09232 Hartmannsdorf, Germania
Phone	0372 73230
Email	service@slg.de.com
Website	slg.de.com

4. ID-number and date			
Unique test report identification number	1093-16-MM-16-PP002	Date of test report	12/10/2016

DESCRIPTION OF CELL / BATTERY

5. Mark the type of cell/battery with an "•"			
○	Lithium ion cell	Lithium metal cell	○
●	Lithium ion battery	Lithium metal battery	○
○	Lithium hybrid battery		

6. Parameters	Cell	Battery
Mass in gram (g):	47g	1260g
Lithium ion: Indicate watt-hour rating (Wh):	10,8Wh	216Wh
Lithium metal: Indicate lithium metal content in gram (g):		
Lithium hybrid: Indicate lithium metal content in gram (g) and watt-hour rating (Wh):		g Wh

LITHIUM BATTERY SERVICE

LITHIUM CELL/BATTERY TEST SUMMARY AND SUPPLIER INQUIRY

IN ACCORDANCE WITH SUB-SECTION 38.3
OF MANUAL OF TESTS AND CRITERIA

Name of cell/battery (taken from field 1)
LINDHAUS/Mod. Li.36/6 36V/6

7. Physical description of cell / battery
Small , rectangular plastic case

8. Model numbers
025350000 or Battery installed in equipment

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 / Crush	•	○	○
T7 - Overcharge	○	•	○
T8 - Forced Discharge	•	○	○
	○	○	○
	○	○	○

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
UN Manual of Tests and Criteria , Part III, Sub-Section 38.3, Rev. 5 A2

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Name of cell/battery (taken from field 1)
LINDHAUS/Mod. Li.36/6 36V/6

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?	●	YES	NO	○

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	●	YES	NO	○

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?			●	YES	NO ○
15. Is each cell / 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 cells/batteries and lithium polymer cells/batteries				
State of Charge (SoC) max. 30 %	●	YES	NO	○

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?			○	YES	NO ●
18.b) Number of enclosed cells (other than button cells)/batteries per equipment					
	Enclosed cells per equipment		Enclosed batteries per equipment		1
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	NO ○
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	NO ○

19. Place, Date	20. Title, Surname, First name	21. Company stamp and signature
Padova, 10/01/2020	Michele Massaro, Legal Representative	LINDHAUS S.R.L. Via Belgio, 22 - 35127 PADOVA IT Tel. +39 049 [illegible] Fax +39 049 8700505 [illegible]

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