LITHIUM CELL TEST SUMMARY AND SUPPLIER INQUIRY

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

	Name/Description of cell		
BT-X23			
Manufacturer of cell			
Name	Dongguang Zhechang Industrial Co.		
Address	No.8 Jiangnan West road Xiagang Industry park Chang An Town Dongguang		
	Guangdong Provice		
Phone	+86 769 85348900		
E-Mail	zecsep@zhechang.com		
Website	www.zhechangcn.com		
	Manufacturer of the equipment (if the cell is contained in equipment)		
Name	Dongguang Zhechang Industrial Co.		
Address	No.8 Jiangnan West road Xiagang Industry park Chang An Town Dongguang		
	Guangdong Provice		
Phone	+86 769 85348900		
E-Mail	zecsep@zhechang.com		
Website	www.zhechangcn.com		
	Test laboratory of cell		

Name	Shenzhen LCS Compliance Testing Laboralory Ltd.
Address	1/F Xingyuan Industrial Park Tongda Road Baoan Avenue Baoan District
	Shenzhen
Phone	+86 755 8259 1330
E-Mail	Jane.lee@lcs-cert.com
Website	http://www.lcs-cert.com

ID-number and date		
Unique test report identification number	LCS181226095ASA	
Date of test report	2019-01-18	
DESCRIPTION OF CELL	(Mark with an"X")	
Lithium ion cell	X	
Lithium metal cell		
Paramo	eters	
Mass in gram (g):	8.9g	
Lithium ion: Indicate watt-hour rating (Wh):	1.11Wh	
Lithium metal: Indicate lithium metal content in gram (g):		

Physical description of cell

Model numbers

TESTS AND RESULTS

List of tests conducted and results		Pass	Fail
- Mark N/A, pass or fail with an "X"			
T1 - Altitude simulation		Х	
T2 - Thermal Test		Х	
T3 – Vibration		Х	
T4 – Shock		Х	

T5 - External Short Circuit	Х	
T6 - Impact - for cylindrical cells having a diameter of at least 18 mm	Х	
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		

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

	ADDITIONAL SUPPLIER INQ	UIRY			
Mark Yes or no with an "X"				No)
Quality management system for manufacturing cells			Х		
Does the manufacturer of the cell/bat	Does the manufacturer of the cell/battery manufacture the products based on a				
documented quality management sys	stem according to transport regulation	ns?			
Are the following parameters exceed	led?		Х		
Lithium ion cell: more than 20 Wh					
Lithium metal cell: more than 1 g Lith					
	t 13 – 15 need to be answered when	12 has been ti	cked "Y	ES":	
Mark Yes or no with an "X"			Yes	No)
Does each cell incorporates a safety v	enting device or is designed		Х		
to preclude a violent rupture under n	ormal conditions of carriage?				
Is each cell equipped with an effective	e means of preventing external short	circuits?	Х		
Is each battery containing cells or seri			Х		
equipped with effective means as neo	cessary to prevent dangerous reverse				
current flow (e.g. diodes, fuses, etc.)	Not relevant for cells				
Only in air transport: St	ate of Charge (SoC) for UN 3480 Lithi	um ion cells a	nd lithiu	m polyn	ner cells
State of Charge (SoC) max. 30 %			Х		
	CELLS INSTALLED IN EQUIPM				
Check point 17 needs to be answered	when the cells are installed in article	s: Mark	N/A	Pass	Fail
N/A, pass or fail with an "X"					
17c) Only button cells enclosed?				Х	
17b) Number of enclosed cells (other	than button cells) per equipment				
When the equipment is intentionally	active/switched on during transport e	e.g. data logge	rs:		
17c) Confirmation that no dangerous	amount of heat is emitted from the e	quipment		Х	
17d)Confirmation that the equipment	t when transported by air fulfills the c	lefined air		Х	
transport standards for electromagne	tic radiation according to DO-160				
Please markt he correct column with	an X				
	T				
Single Cell or Battery Build in Cell/Battery Over 100			Wh		
LITHIUM - METALL	LITHIUM - IONEN	LITHIUN	I - IONE	N	
	Ĥ.A	BATTE	RIE mit		
		MEHR al	s 100 Wh		
	UN 344 bit and the second seco				
Einzel Zelle / Batterie	Zelle / Batterie				
	in Ausrüstungen	~	9		
	х				

Place, Date	Pascal Pekcan	Company stamp and Signature		
2019-12-05	AM	Technaxx Deutschland GmbH & Co. KG Kruppstr. 105 60388 Frankfurt a.M. Fon +49(0)69/90 47 55 2-0 · Fax-16		