# LITHIUM CELL TEST SUMMARY AND SUPPLIER INQUIRY IN ACCORDANCE WITH SUB-SECTION 38.3 OF MANUAL OF TESTS AND CRITERIA

	Name/Description of cell / mode	In o. of Product			
Lithium Battery		K-28			
,		urer of cell			
Name	Shenzhen Hangjun Electronic.Co.Ltd				
Address	302, 3rd Floor, Building 1, Hekeng Industrial park, Langkou Community,				
	Dalang Office, Longhua New District, Shenzhen				
Phone	18127038885				
E-Mail	jijun2508@163.com	jijun2508@163.com			
Website	www.hangjun.net				
		facturer			
Name		Technaxx Deutschland GmbH & Co. KG			
Address	Kruppstraße 105, 60388 Frankfurt an	n Main			
Phone	+49 [69] 90 47552 0				
E-Mail	Zentrale@technaxx.de				
Website	http://www.technaxx.de/				
		atory of cell			
Name	Dongguan ZRLK Testing Technology C				
Address	Building D, No.2, Jinyuyuan Mansion, N	lo.18, Industrial West Road	l, Songsha	in Lake H	igh-
		tech Industrial Development Zone, Dongguan, Guangdong, China			
Phone	+86-769-26621775				
E-Mail	admin@zrlklab.com				
Website	www.zrlklab.com				
	ID-numb	er and date			
Unique test report identification number ZKS191200980-1					
Date of test report	rt 2020-04-09				
	DESCRIPTION OF CE	LL ( Mark with an"X")			
Lithium ion cell					
Lithium metal cell X					
	Para	neters			
Mass in gram (g):					
Lithium ion: Indicate watt-hour rating (Wh): 11.84Wh					
Lithium metal: Indic	ate lithium metal content in gram (g):	24.5g			
	Physical des	cription of cell			
Lithium Battery					
HJ 405060	Model	numbers			
113 403000					
	TESTS AN	D RESULTS			
List of tests conduct	ed and results		N/A	Pass	Fail
- Mark N/A, pass or	fail with an "X"		-		1
T1 - Altitude simulat			1	х	+
T2 - Thermal Test			1	X	1
T3 – Vibration				X	1
T4 – Shock				х	1
T5 - External Short C	ircuit		1	Х	
				1	1

T5 - External Short Circuit 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

Х

Х

Х

#### ADDITIONAL SUPPLIER INQUIRY

Mark Yes or no with an "X"		No
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?		
Are the following parameters exceeded?		Х
Lithium ion cell: more than 20 Wh		
Lithium metal cell: more than 1 g Lithium		

## Check point 13 – 15 need to be answered when 12 has been ticked "YES":

Mark Yes or no with an "X"	Yes	No
Does each cell incorporates a safety venting device or is designed		
to preclude a violent rupture under normal conditions of carriage?		
Is each cell equipped with an effective means of preventing external short circuits?	Yes	
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		

# Only in air transport: State of Charge (SoC) for UN 3480 Lithium ion cells and lithium polymer cells

State of Charge (SoC) max. 30 %		

### **CELLS INSTALLED IN EQUIPMENT**

Check point 17 needs to be answered when the cells are installed in articles: Mark		Pass	Fail
N/A, pass or fail with an "X"			
17c) Only button cells enclosed?			
17b) Number of enclosed cells (other than button cells) per equipment			
When the equipment is intentionally active/switched on during transport e.g. data loggers:			
17c) Confirmation that no dangerous amount of heat is emitted from the equipment		Х	
17d)Confirmation that the equipment when transported by air fulfills the defined air		Х	1
transport standards for electromagnetic radiation according to DO-160			

Please markt he correct column with	X	
Single Cell or Battery	Build in Cell/ Battery	Over 100Wh
LITHIUM - METALL UN 3090 Emzel Zelle / Batterie	LITHIUM - IONEN With a state UN 3481 UN 3481 Telle / Batterie in Ausrüstungen	LITHIUM - IONEN BATTERIE mit MEHR als 100 Wh C

Place, Date	Signature	Company stamp and Signature
Frankfurt, 06.07.2020	PUL	Technax Deutschland GmbH & Co. KG Kruppstr. 105 60388 Frankfurt a.M. Fon +49(0)69/90 47 55 2-0 Fax -16