# 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
	3.6V 1.5Ah Li-Ion Battery Pack (model # EY9L10) for Panasonic cordless power tool

2. Manufac	2. Manufacturer of cell / battery					
Name Panasonic Corporation						
Address	1006 Kadoma Oaza Kadoma-shi, Osaka 571-8501, Japan					
Phone	+81 6 6908 1121					
Email						
Website	https://www.panasonic.com/jp/home.html					

3. Test labo	oratory of cell / battery
Name	Sanyo Electric Co., Ltd.
Address	2-1-61 Shiromi, Chuou-ku, Osaka 540-6226, Japan
Phone	+81 6 6991 1181
Email	
Website	https://www.panasonic.com/jp/corporate/profile/group-companies/sanyo.html

4. ID-number and date			
Unique test report identification number	E1623269	Date of test report	18-11-2016

### **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):		
Lithium ion: Indicate watt-hour rating (Wh):		5.4
Lithium metal: Indicate lithium metal content in gram (g):		
Lithium hybrid: Indicate lithium metal content in gram (g) and watt-hour rating (Wh):		g WI



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Name of cell/battery (taken from field 1)

3.6V 1.5Ah Li-Ion Battery Pack

7. Physical description of cell / battery			
3.6V 1.5Ah Li-Ion Battery Pack (model # EY9L10) for Pana	sonic cordle	ess power t	ool
8. Model numbers			
EY9L10			
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	0	0	0
T2 - Thermal Test	O	0	O
T3 - Vibration	0	0	0
T4 - Shock	0	0	0
T5 - External Short Circuit	0	0	0
T6 - Impact / Crush	0	0	0
T7 - Overcharge	0	0	0
T8 - Forced Discharge	0	0	0
	0	0	O
			Ŏ

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II. Ken	rence to the	revised edition	or the Mani	ial or rests a	na Criteria uset	i and to amer	ndments thereto

"Cells and batteries manufactured according to a type meeting the

requirements of sub-section 38.3 of the Manual of Tests and Criteria,

(21st edition) Article # 2.9.4 Lithium Batteries (a)

Revision 3, Amendment 1 or any subsequent revision"

UN38.3 Revision 5A1



N/A

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Name of cell/battery (taken from field 1)

3.6V 1.5Ah Li-Ion Battery Pack

### ADDITIONAL SUPPLIER INQUIRY

State of Charge (SoC) max. 30 %	0	YES	NO O
<ol> <li>Only in air transport: State of Charge (SoC) for UN 3480 Lithium ion cells/batteries and lithium polymer cells/batteries</li> </ol>			
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.)?		YES	NO
<b>15.</b> Is each cell / battery equipped with an effective means of preventing external short circuits	?	YES	NO O
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
Check point 14 – 16 need to be answered when 13 has been ticked "YES":			
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
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

### CELLS/BATTERIES INSTALLED IN EQUIPMENT

18. Check p	oint 18 needs to be answered when the cells / t	atteries are installed	l in arti	cles:			
18.a) Only b	outton cells enclosed?		Mari		0	YES	NO O
18.b) Numb	er of enclosed cells (other than button cells)/bat	teries per equipment				10000	
	Enclosed cells per equipment	Enclos	ed batt	eries p	er equip	oment	
When the e	quipment is intentionally active/switched on dur	ing transport e.g. data	a logge	rs:			
18.c) Confirm	mation that no dangerous amount of heat is emitted	I from the equipment		N/A	•	YES	NO
	mation that the equipment when transported by a nsport standards for electromagnetic radiation a		•	N/A		YES	NO

19. Place, Date	20. Title, Surname, First name	21. Company stamp and signature
Ottobrunn/Germany 21-1-2020	General Manager Nedachi, Kunihiko	le Nadadi

Panasonic Electric Works Europe AG Rudolf-Diesel-Ring 2 · 83607 Holzkirchen · Germany Tel. +49 (0) 80 24-6 48-0 · Fax +49 (0) 80 24-6 48-111

