



Hilti Corporation
Feldkircherstrasse 100
9494 Schaan, LI
www.hilti.com

Lithium Cell/Battery UN38.3 Test Summary Report
IN ACCORDANCE WITH SUB-SECTION 38.3 OF MANUAL OF TESTS AND CRITERIA

Battery model name		B36/5.2 Li-Ion (01)	Li-Ion battery (rechargeable)
Manufacturer	<i>Hilti Corporation</i> Feldkircherstrasse 100 LI – 9494 Schaan Liechtenstein www.hilti.com Phone: +1 352 323 3500	Responsible contact person at Hilti	<i>Mr. Stefan Tobler</i> Transport Manager Dangerous Goods GLD Global Transport & Warehousing E-Mail: Stefan.Tobler@hilti.com Phone: +41 79 893 8789


Cell model name	muRata (Sony) US18650 VTC5A / INR19/66	Test laboratory	Name	SLG Prüf- u. Zertifizierungs GmbH
			Address	Burgstädter Str. 20, 09232 Hartmannsdorf, Germany
			Phone	+49(0)3722 7323-0
			E-Mail	service@slg.de.com
			website	www.slg.de.com
		Test report ID	1035-15-MM-16-PP006	
		Report Date	2015-06-25	

DESCRIPTION OF BATTERY			
Model number(s)	B36/5.2 Li-Ion (01)		
Type of battery	Li-Ion battery (rechargeable)	Mass of battery [g]	1350
Configuration battery	10s2p	Total number of cells per battery	20
Nominal voltage battery [V]	36.0	Rated Power per cell [Wh]	9.36
Rated capacity battery [Ah]	5.2	Rated Power per battery [Wh]	187.2
Hilti manufactures all cells/batteries under a quality management system as required by this regulation			

TESTS AND RESULTS				
List of tests conducted and results - Mark N/A, pass or fail with a "X"		N/A	Pass	Fail
38.3.4.1	T1 – Altitude simulation		X	
38.3.4.2	T2 – Thermal test		X	
38.3.4.3	T3 – Vibration		X	
38.3.4.4	T4 – Shock		X	
38.3.4.5	T5 – External Short Circuit		X	
38.3.4.6	T6 – Impact/Crush (cell only)		X	
38.3.4.7	T7 – Overcharge		X	
38.3.4.8	T8 – Forced discharge (cell only)		X	
		N/A	UN38.3.3(f)	UN38.3.3(g)
Reference to assembled battery testing requirements UN 38.3.3			X	

TEST REFERENCE		
UN Manual of Test and Criteria, Part III, sub-section 38.3 as applicable at the date of the type testing.		
	Cell	Battery
Revision	ST/SG/AC.10/11Rev.5/Amend.1&	ST/SG/AC.10/11Rev.5/Amend.1&
Amendment	Amend.2 UN 38.3	Amend.2 UN 38.3

The manufacture of the cell / battery is in accordance with the documented quality management system as required by the regulations.

Signatory		
Place, Date	Name, Title	Company stamp and signature
Schaan, 2019-08-26	Stefan Tobler Transport Manager Dangerous Goods GLD Global Transport & Warehousing	 Hilti Aktiengesellschaft Feldkircherstrasse 100 9494 Schaan Fürstentum Liechtenstein



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

Battery model name		B36/5.2 Li-Ion (01)	Li-Ion battery (rechargeable)
Manufacturer	<i>Hilti Corporation</i> Feldkircherstrasse 100 LI – 9494 Schaan Liechtenstein www.hilti.com Phone: +1 352 323 3500	Responsible contact person at Hilti	<i>Mr. Stefan Tobler</i> Transport Manager Dangerous Goods GLD Global Transport & Warehousing E-Mail: Stefan.Tobler@hilti.com Phone: +41 79 893 8789


Cell model name	Panasonic (Sanyo) UR18650NSX	Test laboratory	Name	SLG Prüf- u. Zertifizierungs GmbH
	INR19/66		Address	Burgstädter Str. 20, 09232 Hartmannsdorf, Germany
			Phone	+49(0)3722 7323-0
			E-Mail	service@slg.de.com
			website	www.slg.de.com
		Test report ID	1035-15-MM-16-PP009	
		Report Date	2016-02-16	

DESCRIPTION OF BATTERY			
Model number(s)	B36/5.2 Li-Ion (01)		
Type of battery	Li-Ion battery (rechargeable)	Mass of battery [g]	1309
Configuration battery	10s2p	Total number of cells per battery	20
Nominal voltage battery [V]	36.0	Rated Power per cell [Wh]	9.36
Rated capacity battery [Ah]	5.2	Rated Power per battery [Wh]	187.2
Hilti manufactures all cells/batteries under a quality management system as required by this regulation			

TESTS AND RESULTS				
List of tests conducted and results - Mark N/A, pass or fail with a "X"		N/A	Pass	Fail
38.3.4.1	T1 – Altitude simulation		X	
38.3.4.2	T2 – Thermal test		X	
38.3.4.3	T3 – Vibration		X	
38.3.4.4	T4 – Shock		X	
38.3.4.5	T5 – External Short Circuit		X	
38.3.4.6	T6 – Impact/Crush (cell only)		X	
38.3.4.7	T7 – Overcharge		X	
38.3.4.8	T8 – Forced discharge (cell only)		X	
Reference to assembled battery testing requirements UN 38.3.3		N/A	UN38.3.3(f)	UN38.3.3(g)
			X	

TEST REFERENCE		
UN Manual of Test and Criteria, Part III, sub-section 38.3 as applicable at the date of the type testing.		
	Cell	Battery
Revision	ST/SG/AC.10/11Rev.5/Amend.1&	ST/SG/AC.10/11Rev.5/Amend.1&
Amendment	Amend.2 UN 38.3	Amend.2 UN 38.3

The manufacture of the cell / battery is in accordance with the documented quality management system as required by the regulations.

Signatory		
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Schaan, 2019-08-26	Stefan Tobler Transport Manager Dangerous Goods GLD Global Transport & Warehousing	 Hilti Aktiengesellschaft Feldkircherstrasse 100 9494 Schaan Fürstentum Liechtenstein