新普科技股份有限公司
新世電子(常熟)有限公司
新普科技(重慶)有限公司
華普電子(常熟)有限公司
Simplo Technology Co., Ltd.
Simplo Technology(Changshu)Inc.
Simplo Technology(Chongqing)Inc.
Huapu Technology(Changshu)Inc.

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Explanatory sheet about safety of product for transportation (Safety Data Sheet for transportation)

1. Basic item

Product name :	Lithium-Ion Rechargeable Battery Pack
UN number:	3480
Product code:	Refer to Table 1.
model name :	Refer to Table 1.
Manufacturer Name:	Simplo Technology Co., Ltd.
Address:	No. 471, Sec. 2, Bade Rd., Hu Kou Township, Hsinchu County, 30348, Taiwan (R.O.C)
Phone number:	+886-3-5695920
Fax number:	+886-3-5695931

2. Product information

Basic composition of the product This product is a battery which consists of such main component as core battery pack assembled with some Lithium ion cells. And it consists of any combination of plastic casing, tube casing, protection circuit boards, safety devices and interface terminals

3. Safety Information

SMP certifies the battery has passed and satisfied the UN Manual of Tests and Criteria Part III, sub-section 38.3 testing in SMP shipping. - SMP manufactured the battery under the quality management program required in UN Model regulations 2.9.4(e).

3-1: Battery pack

1. The Watt-hour rating of the battery is not more than 100Wh.
   The Watt-hour rating of the component Lithium ion cells is not more than 20Wh.
   Refer to Appendix “SDS_Simplo-2101”.
2. Packages of the battery satisfy the following conditions when SMP ships.
   (1) The package has passed the drop test from the height of 1.2m.
   (2) The package net weight is not more than 10kg.
   (3) The package is marked and labeled according to requirement of Packing Instruction 965 Section IB stated in ICAO’s and IATA’s dangerous goods regulations.
3. The battery is not defective for safety reasons, not damaged. It is not collected battery for recycling or disposal.
4. The battery is not subject to the fully regulated requirements for Dangerous Goods in ocean and ground transportation.
5. The battery should be transported by Cargo aircraft as UN3480, Class 9 Dangerous Goods, and state of charge not exceeding 30%, according to Packing Instruction 965 Section IB stated in ICAO’s and IATA’s dangerous goods regulations.

Table. 1 Model list of application

Battery Part Numbers			Battery Information						
Lenovo ASM Lenovo PN Part Number	Lenovo FRU Part Number	Lenovo Model Name	MSDS Type #	UN DOT 38.3 Test Certificate	Cell Voltage (V)	Battery Voltage (V)	Watt hour Rating (Wh)	Weight (grams)	Equivalent Lithium Content (grams)
31507328		L14M4PA0	SDS_Simplo-2101	31507328_UN38.3	3.7	14.8	50	282	4.07
121500032		N/A	SDS_Simplo-2101	121500032_UN38.3	3.7	3.7	28	170	2.30
121500035		N/A	SDS_Simplo-2101	121500035_UN38.3	3.7	3.7	14	95	1.15
121500069		N/A	SDS_Simplo-2101	121500069_UN38.3	3.7	14.8	42	250	3.41
121500103		N/A	SDS_Simplo-2101	121500103_UN38.3	3.7	3.7	25	130	2.04
121500156		N/A	SDS_Simplo-2101	121500156_UN38.3	3.7	7.4	55	310	4.44
121500183		N/A	SDS_Simplo-2101	121500183_UN38.3	3.7	3.7	25	130	2.03
121500223		N/A	SDS_Simplo-2101	121500223_UN38.3	3.7	7.4	34	190	2.76
121500264		L13M4P71	SDS_Simplo-2101	121500264_UN38.3	3.8	7.6	45	218	3.54
5B10H09632		L14M2P22	SDS_Simplo-2101	5B10H09632 _UN38.3	3.7	7.4	30	143	2.43
121001044		N/A	SDS_Simplo-2101	121001044_UN38.3	3.7	14.8	40	235	3.24
121001054		N/A	SDS_Simplo-2101	121001054_UN38.3	3.7	7.4	41	170	2.22
121500057		N/A	SDS_Simplo-2101	121500057_UN38.3	3.7	7.4	28	160	2.24
121500058		N/A	SDS_Simplo-2101	121500058_UN38.3	3.7	11.1	46	245	3.74
121500059		N/A	SDS_Simplo-2101	121500059_UN38.3	3.7	7.4	59	325	4.84
121500082		N/A	SDS_Simplo-2101	121500082_UN38.3	3.7	11.1	45	225	3.65
121500093		N/A	SDS_Simplo-2101	121500093_UN38.3	3.7	14.8	55	310	4.44
121500157		N/A	SDS_Simplo-2101	121500157_UN38.3	3.7	14.8	42	260	3.41
121500161		N/A	SDS_Simplo-2101	121500161_UN38.3	3.7	7.4	45	250	3.66
121500163		N/A	SDS_Simplo-2101	121500163_UN38.3	3.7	7.4	53	300	4.26
121500199		N/A	SDS_Simplo-2101	121500199_UN38.3	3.7	7.4	53	280	4.26
121500205		N/A	SDS_Simplo-2101	121500205_UN38.3	3.7	3.7	18	88	1.42
121500207		N/A	SDS_Simplo-2101	121500207_UN38.3	3.65	3.65	23	120	1.86
121500227		N/A	SDS_Simplo-2101	121500227_UN38.3	3.7	3.7	25	125	2.03
121500229		N/A	SDS_Simplo-2101	121500229_UN38.3	3.7	11.1	50	280	4.07
121500233		N/A	SDS_Simplo-2101	121500233_UN38.3	3.7	7.4	36	180	2.93
121500248		L13M4P01	SDS_Simplo-2101	121500248_UN38.3	3.7	7.4	49	271	3.96
121500250		L13M4P02	SDS_Simplo-2101	121500250_UN38.3	3.7	7.4	55	284	4.44
121500252		N/A	SDS_Simplo-2101	121500252_UN38.3	3.65	7.3	45	230	3.72
121500254		L13M6P61	SDS_Simplo-2101	121500254_UN38.3	3.7	11.1	35	174	2.83
5B10G52141		L14M4P71	SDS_Simplo-2101	5B10G52141_UN38.3	3.75	7.5	35	169	2.79
5B10G75095		L14M4P72	SDS_Simplo-2101	5B10G75095_UN38.3	3.7	7.4	46	232	3.77
5B10G78611		L14M3P21	SDS_Simplo-2101	5B10G78611_UN38.3	3.7	11.1	45	210	3.65

Table. 1 Model list of application

Battery Part Numbers			Battery Information						
Lenovo ASM Lenovo PN Part Number	Lenovo FRU Part Number	Lenovo Model Name	MSDS Type #	UN DOT 38.3 Test Certificate	Cell Voltage (V)	Battery Voltage (V)	Watt hour Rating (Wh)	Weight (grams)	Equivalent Lithium Content (grams)
5B10G78611		L14M3P21	SDS_Simplo-2101	5B10G78611 _UN38.3	3.7	11.1	45	216	3.65
5B10G78612		L14M2P21	SDS_Simplo-2101	5B10G78612_UN38.3	3.7	7.4	30	151	2.43
5B10H09629		L14M3P22	SDS_Simplo-2101	5B10H09629_UN38.3	3.7	11.1	45	226	3.65
5B10H09630		L14M2P22	SDS_Simplo-2101	5B10H09630_UN38.3	3.7	7.4	30	143	2.43
5B10H09631		L14M4P21	SDS_Simplo-2101	5B10H09631_UN38.3	3.7	7.4	60	284	4.86
5B10H13092		L14M2P24	SDS_Simplo-2101	5B10H13092_UN38.3	3.8	7.6	31	153	2.43
5B10H13095		L14M2P23	SDS_Simplo-2101	5B10H13095_UN38.3	3.7	7.4	30	145	2.43
5B10H13100		L14M4P22	SDS_Simplo-2101	5B10H13100_UN38.3	3.8	7.6	24	123	1.89
5B10H22084		L14M4P23	SDS_Simplo-2101	5B10H22084_UN38.3	3.7	14.8	60	300	4.86
5B10H35531		L14M6P21	SDS_Simplo-2101	5B10H35531_UN38.3	3.7	11.1	90	520	7.29
5B10H41181		L14M3P24	SDS_Simplo-2101	5B10H41181_UN38.3	3.7	11.1	45	235	3.65
5B10H43261		L14M4P24	SDS_Simplo-2101	5B10H43261_UN38.3	3.75	7.5	66	285	5.28
5B10H54715		L14M4PB0	SDS_Simplo-2101	5B10H54715_UN38.3	3.75	15	60	285	4.86
5B10J46561		L15M2PB0	SDS_Simplo-2101	5B10J46561_UN38.3	3.8	7.6	35	145	2.77
5B10J50662		L15M4P20	SDS_Simplo-2101	5B10J50662_UN38.3	3.83	7.66	52	215	4.07
5B10K10166		L14M4P71	SDS_Simplo-2101	5B10K10166_UN38.3	3.75	7.5	34	170	2.79
5B10K10168		L14M2P22	SDS_Simplo-2101	5B10K10168_UN38.3	3.7	7.4	30	140	2.43
5B10K10171		L14M2P23	SDS_Simplo-2101	5B10K10171_UN38.3	3.7	7.4	30	145	2.43
5B10K10178		L14M2P24	SDS_Simplo-2101	5B10K10178_UN38.3	3.8	7.6	35	140	2.77
5B10K10181		L13M4P71	SDS_Simplo-2101	5B10K10181_UN38.3	3.8	7.6	45	215	3.54
5B10K10182		L14M2P21	SDS_Simplo-2101	5B10K10182_UN38.3	3.7	7.4	30	154	2.43
5B10K10186		L14M3P21	SDS_Simplo-2101	5B10K10186_UN38.3	3.7	11.1	45	210	3.65
5B10K10190		L13M4P02	SDS_Simplo-2101	5B10K10190_UN38.3	3.7	7.4	55	293	4.44
5B10K10215		L14M4P73	SDS_Simplo-2101	5B10K10215_UN38.3	3.8	7.6	40	185	3.16
5B10K10223		L14M4P22	SDS_Simplo-2101	5B10K10223_UN38.3	3.7	7.4	23	120	1.89
5B10K10224		L14M4P72	SDS_Simplo-2101	5B10K10224_UN38.3	3.7	7.4	46	230	3.77
5B10K13850		L15M6P11	SDS_Simplo-2101	5B10K13850 _UN38.3	3.8	11.4	48	235	3.83
5B10K84291		L15M4PC0	SDS_Simplo-2101	5B10K84291_UN38.3	3.75	7.5	46	210	7.36
5B10K84494		L15M3PB0	SDS_Simplo-2101	5B10K84494_UN38.3	3.75	11.25	51	210	4.08
5B10K87712		L15M2PB2	SDS_Simplo-2101	5B10K87712_UN38.3	3.7	7.4	30	140	2.45
5B10K87713		L15M2PB4	SDS_Simplo-2101	5B10K87713_UN38.3	3.84	7.68	38	140	2.97
5B10K87714		L15M2PB2	SDS_Simplo-2101	5B10K87714_UN38.3	3.7	7.4	30	140	2.40

Table. 1 Model list of application

Battery Part Numbers			Battery Information						
Lenovo ASM Lenovo PN Part Number	Lenovo FRU Part Number	Lenovo Model Name	MSDS Type #	UN DOT 38.3 Test Certificate	Cell Voltage (V)	Battery Voltage (V)	Watt hour Rating (Wh)	Weight (grams)	Equivalent Lithium Content (grams)
5B10K87720		L15M2PB5	SDS_Simplo-2101	5B10K87720_UN38.3	3.84	7.68	39	153	3.05
5B10K87721		L15M2PB3	SDS_Simplo-2101	5B10K87721_UN38.3	3.7	7.4	30	140	2.45
5B10K87722		L15M2PB3	SDS_Simplo-2101	5B10K87722_UN38.3	3.7	7.4	30	150	2.40
5B10K88047		L15M3PB1	SDS_Simplo-2101	5B10K88047_UN38.3	3.7	11.1	45	210	3.65
5B10K90767		L15M4PC1	SDS_Simplo-2101	5B10K90767_UN38.3	3.8	7.6	40	180	3.16
5B10K90778		L15M4PC2	SDS_Simplo-2101	5B10K90778_UN38.3	3.82	7.64	53	227	4.18
5B10K90780		L15M3PB2	SDS_Simplo-2101	5B10K90780_UN38.3	3.75	11.25	44	200	3.51
5B10L02190		L15M4P23	SDS_Simplo-2101	5B10L02190_UN38.3	3.84	7.68	76	286	6.13
5B10L13949		L15M2PB6	SDS_Simplo-2101	5B10L13949_UN38.3	3.75	7.5	30	150	2.40
5B10L22508		L15M4P23	SDS_Simplo-2101	5B10L22508_UN38.3	3.84	7.68	76	286	6.13
5B10L55039		L15M6PC0	SDS_Simplo-2101	5B10L55039_UN38.3	3.75	7.5	46	200	11.04
5B10L72502		L15M4PC3	SDS_Simplo-2101	5B10L72502_UN38.3	3.84	7.68	41	165	3.20
5B10M33724		L16M4PB0	SDS_Simplo-2101	5B10M33724_UN38.3	3.7	14.8	58	305	4.69
5B10M41934		L16M3P24	SDS_Simplo-2101	5B10M41934_UN38.3	3.84	11.52	45	225	3.52
5B10M49823		L14M2P21	SDS_Simplo-2101	5B10M49823_UN38.3	3.7	7.4	30	155	2.43
5B10M49824		L15M3PB0	SDS_Simplo-2101	5B10M49824_UN38.3	3.75	11.25	53	214	4.20
5B10M50528		L15M2PB1	SDS_Simplo-2101	5B10M50528_UN38.3	3.75	7.5	35	160	2.80
5B10M52211		L16M4PB1	SDS_Simplo-2101	5B10M52211_UN38.3	3.84	7.68	48	190	3.76
5B10M52740		L16M4PB1	SDS_Simplo-2101	5B10M52740_UN38.3	3.84	7.68	48	195	3.76
5B10M52814		L14M3P21	SDS_Simplo-2101	5B10M52814_UN38.3	3.7	11.1	45	216	3.65
5B10M52818		L14M2P21	SDS_Simplo-2101	5B10M52818_UN38.3	3.7	7.4	30	154	2.43
5B10M55951		L16M4PB2	SDS_Simplo-2101	5B10M55951_UN38.3	3.75	15	55	235	4.41
5B10M86147		L16M2PB3	SDS_Simplo-2101	5B10M86147_UN38.3	3.84	7.68	30	140	2.35
5B10M86148		L16M2PB1	SDS_Simplo-2101	5B10M86148_UN38.3	3.7	7.4	30	140	2.45
5B10M86149		L16M2PB2	SDS_Simplo-2101	5B10M86149_UN38.3	3.75	7.5	35	140	2.80
5B10N00765		L16M4PB3	SDS_Simplo-2101	5B10N00765_UN38.3	3.84	7.68	96	200	7.52
5B10N00788		L14M6P21	SDS_Simplo-2101	5B10N00788_UN38.3	3.7	11.1	90	515	7.29
5B10N01565		L16M4P60	SDS_Simplo-2101	5B10N01565_UN38.3	3.84	7.68	70	260	5.47
5B10N87358		L17M3P61	SDS_Simplo-2101	5B10N87358_UN38.3	3.84	11.52	36	140	2.85
5B10P35083		L17M4PB1	SDS_Simplo-2101	5B10P35083_UN38.3	3.84	15.36	80	320	6.22
5B10P53995		L17M2PB4	SDS_Simplo-2101	5B10P53995_UN38.3	3.84	7.68	39	150	3.05
5B10P53996		L17M2PB2	SDS_Simplo-2101	5B10P53996_UN38.3	3.84	7.68	39	140	3.05
5B10P53998		L17M2PB3	SDS_Simplo-2101	5B10P53998_UN38.3	3.75	7.5	30	140	2.40
5B10P54001		L17M2PB1	SDS_Simplo-2101	5B10P54001_UN38.3	3.75	7.5	30	140	2.40
5B10P98183		L17M2PB5	SDS_Simplo-2101	5B10P98183_UN38.3	3.84	7.68	39	180	3.05

Table. 1 Model list of application

Battery Part Numbers			Battery Information						
Lenovo ASM Lenovo PN Part Number	Lenovo FRU Part Number	Lenovo Model Name	MSDS Type #	UN DOT 38.3 Test Certificate	Cell Voltage (V)	Battery Voltage (V)	Watt hour Rating (Wh)	Weight (grams)	Equivalent Lithium Content (grams)
5B10P98184		L17M2PB5	SDS_Simplo-2101	5B10P98184_UN38.3	3.84	7.68	39	180	3.05
5B10Q13164		L17M3PB0	SDS_Simplo-2101	5B10Q13164_UN38.3	3.75	11.25	42	180	3.36
5B10Q16066		L17M4PB0	SDS_Simplo-2101	5B10Q16066_UN38.3	3.84	7.68	46	185	3.56
5B10Q22883		L17M4PB2	SDS_Simplo-2101	5B10Q22883_UN38.3	3.84	11.52	34	140	2.67
5B10Q38238		L16M4PB1	SDS_Simplo-2101	5B10Q38238_UN38.3	3.84	7.68	48	200	3.76
5B10Q39199		L17M3P61	SDS_Simplo-2101	5B10Q39199_UN38.3	3.84	11.52	36	145	2.85
5B10Q39202		L15M3PB0	SDS_Simplo-2101	5B10Q39202_UN38.3	3.75	11.25	53	215	3.65
5B10Q39204		L14M2P21	SDS_Simplo-2101	5B10Q39204_UN38.3	3.7	7.4	30	153	2.43
5B10Q41211		L17M2PF0	SDS_Simplo-2101	5B10Q41211_UN38.3	3.75	7.5	35	140	2.80
5B10Q56954		L16M2PB1	SDS_Simplo-2101	5B10Q56954_UN38.3	3.75	7.5	30	140	2.40
SB10K10386		L14M4PA0	SDS_Simplo-2101	SB10K10386_UN38.3	3.7	14.8	50	274	4.07
SB10K10389		L15M6PA1	SDS_Simplo-2101	SB10K10389_UN38.3	3.75	11.25	50	470	3.96
SB18C15130		L15M3PB1	SDS_Simplo-2101	SB18C15130_UN38.3	3.7	11.1	45	200	3.65
5B10N87358		L17M3P61	SDS_Simplo-2101	5B10N87358_UN38.3	3.84	11.52	36	145	2.85
5B10Q13163		L17M3PB0	SDS_Simplo-2101	5B10Q13163_UN38.3	3.75	11.25	42	180	3.36
5B10Q62139		L17M2PF2	SDS_Simplo-2101	5B10Q62139_UN38.3	3.84	7.68	30	150	2.35
5B10Q41210		L17M3PH0	SDS_Simplo-2101	5B10Q41210 _UN38.3	3.84	11.52	47.98	200	3.75
5B10Q82426		L17M4PH1	SDS_Simplo-2101	5B10Q82426_UN38.3	3.84	15.36	60	245	4.69
5B10Q80766		L17M3PG1	SDS_Simplo-2101	5B10Q80766_UN38.3	3.75	11.25	52.5	212	4.20
5B10Q88556		L17M4PG2	SDS_Simplo-2101	5B10Q88556_UN38.3	3.84	15.36	76	307.5	5.95
5B10Q88555		L17M3PG2	SDS_Simplo-2101	5B10Q88555_UN38.3	3.84	11.52	57	212	4.46
5B10Q88560		L17M3PG2	SDS_Simplo-2101	5B10Q88560_UN38.3	3.84	11.52	57	225	4.46
5B10Q93737		L17M2PF3	SDS_Simplo-2101	5B10Q93737_UN38.3	3.84	7.68	39	140	3.05
5B10R33000		L17M6PF0	SDS_Simplo-2101	5B10R33000_UN38.3	3.82	11.46	48	275	3.77
5B10R32749		L17M4PE1	SDS_Simplo-2101	5B10R32749_UN38.3	3.84	11.36	42	175	3.28
5B10R24750		L17M2PF0	SDS_Simplo-2101	5B10R24750_UN38.3	3.75	7.5	35	145	2.80
5B10R37086		L17M4PH3	SDS_Simplo-2101	5B10R37086_UN38.3	3.84	7.68	60	260	3.11
5B10R51233		L18M4PG0	SDS_Simplo-2101	5B10R51233_UN38.3	3.75	7.5	56	240	4.48
5B10R38650		L17M4PF0	SDS_Simplo-2101	5B10R38650_UN38.3	3.84	15.36	45	185	3.56
5B10S73396		L17M3PB0	SDS_Simplo-2101	5B10S73396_UN38.3	3.75	11.25	42	180	3.36
5B10T09080		L18M4PF4	SDS_Simplo-2101	5B10T09080_UN38.3	3.86	15.44	50	195	3.936
5B10T04979		L18M3PG2	SDS_Simplo-2101	5B10T04979_UN38.3	3.84	11.52	57	230	4.455
5B10T09111		L18M3PG2	SDS_Simplo-2101	5B10T09111_UN38.3	3.84	11.52	57	230	4.455
5B10T07386		L18M4PC0	SDS_Simplo-2101	5B10T07386_UN38.3	3.86	7.72	52	220	1.989

新普科技股份有限公司
新世電子(常熟)有限公司
新普科技(重慶)有限公司
華普電子(常熟)有限公司
Simplo Technology Co., Ltd.
Simplo Technology(Changshu)Inc.
Simplo Technology(Chongqing)Inc.
Huapu Technology(Changshu)Inc.

Table. 1 Model list of application

Battery Part Numbers			Battery Information						
Lenovo ASM Lenovo PN Part Number	Lenovo FRU Part Number	Lenovo ModelName	MSDS Type #	UN DOT 38.3 Test Certificate	Cell Voltage (V)	Battery Voltage (V)	Watt hour Rating (Wh)	Weight (grams)	Equivalent Lithium Content (grams)
5B10T30216		L17M3PG1	SDS_Simplo-2101	5B10T30216_UN38.3	3.75	11.25	52.5	220	4.203
5B10T30214		L17M3PG2	SDS_Simplo-2101	5B10T30214_UN38.3	3.84	11.52	57	227	4.4595
5B10T36866		L17M3PB0	SDS_Simplo-2101	5B10T36866_UN38.3	3.75	11.25	42	180	3.3615
5B10T11585		L18M4PH0	SDS_Simplo-2101	5B10T11585_UN38.3	3.84	7.68	60	260	4.692
5B10T83739		L18M3PFA	SDS_Simplo-2101	5B10T83739_UN38.3	3.84	11.52	60.3	240	4.7115
5B10U97772		L19M4PD2	SDS_Simplo-2101	5B10U97772_UN38.3	3.84	15.36	62.3	245	4.872
SB10V26975	5B10V26973	L19M4PG0	SDS_Simplo-2101	SB10V26975_UN38.3	3.84	15.36	60.9	260	4.764
SB10V25256	5B10V25257	L19M2PF0	SDS_Simplo-2101	SB10V25256_UN38.3	3.75	7.5	35	150	2.802
SB10W65282	5B10W65297	L19M4PF4	SDS_Simplo-2101	SB10W65282_UN38.3	3.84	15.36	60.8	253	4.8
SB10W52015	5B10W52014	L17M3PB0	SDS_Simplo-2101	SB10W52015_UN38.3	3.75	11.25	42	180	3.3615
SB10W86191	5B10W86195	L19M4PC0	SDS_Simplo-2101	SB10W86191_UN38.3	3.86	15.44	61	220	4.752
SB10W86952	5B10W86944	L19M3PF6	SDS_Simplo-2101	SB10W86952_UN38.3	3.84	11.52	57	110	4.5045
SB10W86946	5B10W86940	L19M4PF1	SDS_Simplo-2101	SB10W86946_UN38.3	3.75	15	70	300	5.604
SB10W86956	5B10W86939	L19M3PF4	SDS_Simplo-2101	SB10W86956_UN38.3	3.84	11.52	57	230	4.4235
SB10W86953	5B10W86936	L19M3PF3	SDS_Simplo-2101	SB10W86953_UN38.3	3.80	11.4	45	230	3.582
SB10T83184	5B10W13941	L18M3PG2	SDS_Simplo-2101	SB10T83184_UN38.3	3.84	11.52	57	230	4.455
SB10T83187	5B10W13944	L18M3PG2	SDS_Simplo-2101	SB10T83187_UN38.3	3.84	11.52	57	230	4.455
SB10T83188	5B10W13945	L17M3PB0	SDS_Simplo-2101	SB10T83188_UN38.3	3.75	11.25	42	180	3.3615
SB10W84711	5B10W84712	L19M4PD4	SDS_Simplo-2101	SB10W84711_UN38.3	3.84	7.68	60	243	9.2472
SB10W67188	5B10W67371	L17M4PG2	SDS_Simplo-2101	SB10W67188_UN38.3	3.84	15.36	76	307.5	5.95
SB10W67189	5B10W67380	L17M3PG2	SDS_Simplo-2101	SB10W67189_UN38.3	3.84	11.52	57	212	4.46
SB10W67193	5B10W67216	L17M6PF0	SDS_Simplo-2101	SB10W67193_UN38.3	3.82	11.46	48	275	3.77
SB10W67196	5B10W67238	L17M3PG1	SDS_Simplo-2101	SB10W67196_UN38.3	3.75	11.25	52.5	212	4.20
SB10W67197	5B10W67287	L18M4PG0	SDS_Simplo-2101	SB10W67197_UN38.3	3.75	7.5	56	240	4.48
SB10W67212	5B10W67292	L17M3PG2	SDS_Simplo-2101	SB10W67212_UN38.3	3.84	11.52	57	225	4.46
SB10W67213	5B10W67356	L17M2PB5	SDS_Simplo-2101	SB10W67213_UN38.3	3.84	7.68	39	180	3.05
SB10W67225	5B10W67262	L17M2PB2	SDS_Simplo-2101	SB10W67225_UN38.3	3.84	7.68	39	140	3.05
SB10W67227	5B10W67423	L17M2PB3	SDS_Simplo-2101	SB10W67227_UN38.3	3.75	7.5	30	140	2.40
SB10W67230	5B10W67232	L14M2P21	SDS_Simplo-2101	SB10W67230_UN38.3	3.7	7.4	30	153	2.43

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Battery Part Numbers			Battery Information						
Lenovo ASM Lenovo PN Part Number	Lenovo FRU Part Number	Lenovo ModelName	MSDS Type #	UN DOT 38.3 Test Certificate	Cell Voltage (V)	Battery Voltage (V)	Watt hour Rating (Wh)	Weight (grams)	Equivalent Lithium Content (grams)
SB10W67231	5B10W67379	L17M2PB1	SDS_Simplo-2101	SB10W67231_UN38.3	3.7	7.4	30	153	2.43
SB10W67233	5B10W67240	L19M4PG0	SDS_Simplo-2101	SB10W67233_UN38.3	3.84	15.36	60.9	260	4.764
SB10W67237	5B10W67245	L17M2PF3	SDS_Simplo-2101	SB10W67237_UN38.3	3.84	15.36	60.9	260	4.764
SB10W67246	5B10W67163	L16M2PB1	SDS_Simplo-2101	SB10W67246_UN38.3	3.7	7.4	30	140	2.45
SB10W67248	5B10W67285	L15M3PB1	SDS_Simplo-2101	SB10W67248_UN38.3	3.7	11.1	45	210	3.65
SB10W67270	5B10W67229	L16M4PB1	SDS_Simplo-2101	SB10W67270_UN38.3	3.84	7.68	48	200	3.76
SB10W67283	5B10W67274	L17M4PE1	SDS_Simplo-2101	SB10W67283_UN38.3	3.84	11.36	42	175	3.28
SB10W67299	5B10W67383	L17M2PB5	SDS_Simplo-2101	SB10W67299_UN38.3	3.8	7.68	39	180	3.05
SB10W67301	5B10W67273	L17M4PH1	SDS_Simplo-2101	SB10W67301_UN38.3	3.84	15.36	60	245	4.69
SB10W67317	5B10W67171	L19M2PF0	SDS_Simplo-2101	SB10W67317_UN38.3	3.75	7.5	35	150	2.802
SB10W67323	5B10W67374	L18M4PH0	SDS_Simplo-2101	SB10W67323_UN38.3	3.84	7.68	60	260	4.692
SB10W67331	5B10W67403	L17M4PB0	SDS_Simplo-2101	SB10W67331_UN38.3	3.84	7.68	60	260	4.692
SB10W67335	5B10W67318	L17M2PB4	SDS_Simplo-2101	SB10W67335_UN38.3	3.84	7.68	39	150	3.05
SB10W67337	5B10W67417	L18M4PF4	SDS_Simplo-2101	SB10W67337_UN38.3	3.86	15.44	50	195	3.936
SB10W67346	5B10W67263	L18M4PC0	SDS_Simplo-2101	SB10W67346_UN38.3	3.86	7.72	52	220	1.989
SB10W67348	5B10W67424	L19M4PD2	SDS_Simplo-2101	SB10W67348_UN38.3	3.84	15.36	62.3	245	4.872
SB10W67375	5B10W67258	L18M3PFA	SDS_Simplo-2101	SB10W67375_UN38.3	3.84	11.52	60.3	240	4.7115
SB10W67378	5B10W67165	L16M2PB2	SDS_Simplo-2101	SB10W67378_UN38.3	3.75	7.5	35	140	2.80
SB10W67382	5B10W67272	L17M2PF0	SDS_Simplo-2101	SB10W67382_UN38.3	3.75	7.5	35	140	2.80
SB10W67409	5B10W67236	L15M3PB0	SDS_Simplo-2101	SB10W67409_UN38.3	3.75	11.25	53	215	3.65
SB10W67414	5B10W67405	L17M4PF0	SDS_Simplo-2101	SB10W67414_UN38.3	3.84	15.36	45	185	3.56
SB10W67429	5B10W67249	L16M4P60	SDS_Simplo-2101	SB10W67429_UN38.3	3.84	7.68	70	260	5.47
SB10W69448	5B10W69465	L17M3PG1	SDS_Simplo-2101	SB10W69448_UN38.3	3.75	11.25	52.5	220	4.203
SB10W89296	5B10W89300	L15M4PC3	SDS_Simplo-2101	SB10W89296_UN38.3	3.84	7.68	41	165	3.20
SB10W89298	5B10W89290	L15M3PB0	SDS_Simplo-2101	SB10W89298_UN38.3	3.75	11.25	53	214	4.20
SB10X02592	5B10X02604	L19M3PF8	SDS_Simplo-2101	SB10X02592_UN38.3	3.86	11.58	38	150	2.92
SB10X49076	5B10X49072	L19M3PD6	SDS_Simplo-2101	SB10X49076_UN38.3	3.84	11.52	53	222	4.13
SB10X82538	5B10X82537	L19M2PD7	SDS_Simplo-2101	SB10X82538_UN38.3	3.84	7.68	30	120	2.36
SB10X87838	5B10X87839	L19M4PD8	SDS_Simplo-2101	SB10X87838_UN38.3	3.84	7.68	41	171	3.246

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Table. 1 Model list of application

Battery Part Numbers			Battery Information						
Lenovo ASM Lenovo PN Part Number	**Lenovo FRU Part Number**	**Lenovo ModelName**	**MSDS Type #**	**UN DOT 38.3 Test Certificate**	**Cell Voltage (V)**	**Battery Voltage (V)**	**Watt hour Rating (Wh)**	**Weight (grams)**	**Equivalent Lithium Content (grams)**
SB10Y75088	5B10Y75090	L19M4PH0	SDS_Simplo-2101	SB10Y75088_UN38.3	3.86	7.72	63.5	250	5.03
SB10Z19322	5B10Z19320	L19M3PD9	SDS_Simplo-2101	SB10Z19322_UN38.3	3.84	11.52	57.5	225	4.50
SB10Z33894	5B10Z33896	L19M4PH2	SDS_Simplo-2101	SB10Z33894_UN38.3	3.84	7.68	60	240	4.692
SB10Z37619	5B10Z37621	L19M4PDD	SDS_Simplo-2101	SB10Z37619_UN38.3	3.86	15.44	56	210	4.4244
SB10X65685	5B10X65680	L19M3PG1	SDS_Simplo-2101	SB10X65685_UN38.3	3.84	11.52	47	188	3.6945
SB10X18190	5B10X18187	L19M4PF2	SDS_Simplo-2101	SB10X18190_UN38.3	3.84	15.36	70	287	5.472
SB11A25391	5B11A25394	L19M3PG1	SDS_Simplo-2101	SB11A25391_UN38.3	3.84	11.52	47	186	3.6945

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Battery Part Numbers			Battery Information						
Lenovo ASM Lenovo PN Part Number	Lenovo FRU Part Number	Lenovo Model Name	MSDS Type #	UN DOT 38.3 Test Certificate	Cell Voltage (V)	Battery Voltage (V)	Watt hour Rating (Wh)	Weight (grams)	Equivalent Lithium Content (grams)
SB10K97614	01AV467	L17M2P51	SDS_Simplo-2101	SB10K97614_UN38.3	3.84	7.68	39	163	3.048
SB10K97631	01AV487	L17M3P56	SDS_Simplo-2101	SB10K97631_UN38.3	3.75	11.25	42	200.9	3.36
SB10K97626	01AV482	L17M3P55	SDS_Simplo-2101	SB10K97626_UN38.3	3.7	11.1	45	232	3.67
SB10K97623	01AV474	L17M4P71	SDS_Simplo-2101	SB10K97623_UN38.3	3.84	15.36	54	234	4.21
SB10K97618	01AV471	L17M6P71	SDS_Simplo-2101	SB10K97618_UN38.3	3.82	11.46	48	260	3.77
SB10K97621	01AV479	L17M3P71	SDS_Simplo-2101	SB10K97621_UN38.3	3.84	11.52	57	240	4.46
SB10K97611	01AV464	L17M3P53	SDS_Simplo-2101	SB10K97611_UN38.3	3.7	11.1	45	223	3.7
SB10K97607	01AV446	L17M3P51	SDS_Simplo-2101	SB10K97607_UN38.3	3.7	11.1	45	223	3.65
SB10K97603	01AV460	L16M3P72	SDS_Simplo-2101	SB10K97603_UN38.3	3.82	11.46	24	150	1.89
SB10K97602	01AV459	L16M3P71	SDS_Simplo-2101	SB10K97602_UN38.3	3.82	11.46	24	135	1.89
SB10K97597	01AV452		SDS_Simplo-2101	SB10K97597_UN38.3	3.82	11.46	24	150	1.89
SB10K97567	01AV458		SDS_Simplo-2101	SB10K97567_UN38.3	3.82	15.28	56	253	4.4
SB10K97596	01AV443		SDS_Simplo-2101	SB10K97596_UN38.3	3.75	11.25	42	200	3.36
SB10K97593	01AV436		SDS_Simplo-2101	SB10K97593_UN38.3	3.75	11.25	42	230	3.41
SB10K97587	01AV430		SDS_Simplo-2101	SB10K97587_UN38.3	3.84	11.52	57	245	4.46
SB10K97590	01AV433		SDS_Simplo-2101	SB10K97590_UN38.3	3.82	15.28	51	242	4.01
SB10K97578	01AV421		SDS_Simplo-2101	SB10K97578_UN38.3	3.82	11.46	24	130	1.89
SB10L84122	00UR891		SDS_Simplo-2101	SB10L84122_UN38.3	3.82	15.28	32	165	2.51
SB10K97570	01AV413		SDS_Simplo-2101	SB10K97570 _UN38.3	3.7	11.1	45	223	3.67
SB10K97572	01AV415		SDS_Simplo-2101	SB10K97572_UN38.3	3.82	15.28	32	179	2.51
SB10J79003	01AV406		SDS_Simplo-2101	SB10J79003_UN38.3	3.82	11.46	27	135	2.05
SB10J78994	00HW046		SDS_Simplo-2101	SB10J78994_UN38.3	3.75	7.5	37	168	2.96
SB10H45076	00NY491		SDS_Simplo-2101	SB10H45076_UN38.3	3.75	15	66	370	5.28
SB10H45078	00NY493		SDS_Simplo-2101	SB10H45078_UN38.3	3.75	11.25	90	460	7.20
SB10F46461	00HW023		SDS_Simplo-2101	SB10F46461_UN38.3	3.8	11.4	24	140	1.86
SB10F46463	00HW025		SDS_Simplo-2101	SB10F46463_UN38.3	3.8	11.4	24	135	1.86
SB10F46465	00HW027		SDS_Simplo-2101	SB10F46465_UN38.3	3.8	15.2	44	242	3.47
SB10F46467	01AV439		SDS_Simplo-2101	SB10F46467_UN38.3	3.8	15.2	52	253	4.11
SB10J78998	01AV401		SDS_Simplo-2101	SB10J78998_UN38.3	3.75	11.25	42	191	3.36
SB10J78992	00HW044		SDS_Simplo-2101	SB10J78992_UN38.3	3.75	11.25	42	201	3.36
SB10F46455	00HW017		SDS_Simplo-2101	SB10F46455_UN38.3	3.75	7.5	32	155	2.52
SB10F46445	00HW007		SDS_Simplo-2101	SB10F46445_UN38.3	3.7	7.4	26	154	2.11
SB10F46441	00HW003		SDS_Simplo-2101	SB10F46441_UN38.3	3.8	15.2	50	266	3.95
45N1750	45N1751		SDS_Simplo-2101	45N1750_UN38.3	3.7	7.4	34	170	2.76

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Lenovo ASM Lenovo PN Part Number	Lenovo FRU Part Number	Lenovo ModelName	MSDS Type #	UN DOT 38.3 Test Certificate	Cell Voltage (V)	Battery Voltage (V)	Watt hour Rating (Wh)	Weight (grams)	Equivalent Lithium Content (grams)
SB10F46439	00HW001		SDS_Simplo-2101	SB10F46439_UN38.3	3.7	14.8	56	281	4.54
45N1728	45N1729		SDS_Simplo-2101	45N1728_UN38.3	3.75	3.75	33	158	2.64
45N1706	45N1707		SDS_Simplo-2101	45N1706_UN38.3	3.7	14.8	47	248	3.82
45N1702	45N1703		SDS_Simplo-2101	45N1702_UN38.3	3.7	14.8	45	259	3.65
45N1138	45N1139		SDS_Simplo-2101	45N1138_UN38.3	3.7	14.8	46	248	3.73
45N1102	45N1103		SDS_Simplo-2101	45N1102_ UN38.3	3.7	11.1	42	205	3.41
45N1100	45N1101		SDS_Simplo-2101	45N1100_UN38.3	3.7	14.8	28	176	2.27
45N1086	45N1087		SDS_Simplo-2101	45N1086_UN38.3	3.7	14.8	48	250	3.96
45N1070	45N1071		SDS_Simplo-2101	45N1070_UN38.3	3.7	14.8	46	270	3.73
SB10K97635	01AV496	L17M6P51	SDS_Simplo-2101	SB10K97635_UN38.3	3.75	11.25	90	460	7.2
SB10Q76928	01AY968	L17M4P72	SDS_Simplo-2101	SB10Q76928_UN38.3	3.84	15.36	80	310	6.09
SB10K97636	01AV497	L17M6P52	SDS_Simplo-2101	SB10K97636_UN38.3	3.75	11.25	99	474.6	7.7
SB10J78998	01AV401	N/A	SDS_Simplo-2101	SB10J78998_UN38.3	3.75	11.25	42	180	3.36
SB10K97640	02DL001	L18M3P52	SDS_Simplo-2101	SB10K97640_UN38.3	3.75	11.25	42	180	3.36
SB10K97639	02DL000	L18M3P51	SDS_Simplo-2101	SB10K97639_UN38.3	3.75	11.25	42	180	3.36
SB10K97650	02DL012	L18M3P71	SDS_Simplo-2101	SB10K97650_UN38.3	3.84	11.52	57.08	220	4.4595
SB10K97652	02DL014	L18M3PD1	SDS_Simplo-2101	SB10K97652_UN38.3	3.84	11.52	57	220	4.455
SB10K97655	02DL017	L18M6PD1	SDS_Simplo-2101	SB10K97655_UN38.3	3.82	11.46	48	225	7.542
SB10K97664	02DL028	L18M6P90	SDS_Simplo-2101	SB10K97664_UN38.3	3.75	11.25	90	385	7.2
SB10K97662	02DL026	L18M6PD3	SDS_Simplo-2101	SB10K97662_UN38.3	3.82	11.46	48	220	3.771
SB10K97643	02DL005	L18M4P72	SDS_Simplo-2101	SB10K97643_UN38.3	3.84	15.36	50	204	3.984
SB10T83129	5B10W13886	L17M3P56	SDS_Simplo-2101	SB10T83129_UN38.3	3.75	11.25	42	200.9	3.36
SB10T83133	5B10W13890	L17M3P51	SDS_Simplo-2101	SB10T83133_UN38.3	3.7	11.1	45	223	3.65
SB10T83135	5B10W13892	L17M3P55	SDS_Simplo-2101	SB10T83135_UN38.3	3.7	11.1	45	232	3.67
SB10T83138	5B10W13895	L17M3P53	SDS_Simplo-2101	SB10T83138_UN38.3	3.7	11.1	45	223	3.70
SB10T83144	5B10W13901	L18M6P90	SDS_Simplo-2101	SB10T83144_UN38.3	3.75	11.25	90	385	7.2
SB10T83146	5B10W13903	L17M6P52	SDS_Simplo-2101	SB10T83146_UN38.3	3.75	11.25	99	474.6	7.70
SB10T83153	5B10W13910	L18M3PD1	SDS_Simplo-2101	SB10T83153_UN38.3	3.84	11.52	57	220	4.455
SB10T83157	5B10W13914	L18M3P71	SDS_Simplo-2101	SB10T83157_UN38.3	3.84	11.52	57.08	220	4.4595
SB10T83158	5B10W13915	L17M2P51	SDS_Simplo-2101	SB10T83158_UN38.3	3.84	7.68	39	163	3.05
SB10T83164	5B10W13921	L17M6P71	SDS_Simplo-2101	SB10T83164_UN38.3	3.82	11.46	48	260	3.77
SB10T83166	5B10W13923	L18M6PD1	SDS_Simplo-2101	SB10T83166_UN38.3	3.82	11.46	48	225	7.542
SB10T83174	5B10W13931	L18M4P72	SDS_Simplo-2101	SB10T83174_UN38.3	3.84	15.36	50	204	3.984
SB10T83184	5B10W13941	L18M3PG2	SDS_Simplo-2101	SB10T83184_UN38.3	3.84	11.52	57	230	4.455
SB10T83187	5B10W13944	L18M3PG2	SDS_Simplo-2101	SB10T83187_UN38.3	3.84	11.52	57	230	4.455
SB10T83188	5B10W13945	L17M3PB0	SDS_Simplo-2101	SB10T83188_UN38.3	3.75	11.25	42	180	3.3615

Table. 1 Model list of application

Battery Part Numbers			Battery Information						
Lenovo ASM Lenovo PN Part Number	**Lenovo FRU Part Number**	**Lenovo ModelName**	**MSDS Type #**	**UN DOT 38.3 Test Certificate**	**Cell Voltage (V)**	**Battery Voltage (V)**	**Watt hour Rating (Wh)**	**Weight (grams)**	**Equivalent Lithium Content (grams)**
SB10T83195	5B10W13952	L17M6P51	SDS_Simplo-2101	SB10T83195_UN38.3	3.75	11.25	90	460	7.20
SB10X63140	5B10X63141	L19M4PG2	SDS_Simplo-2101	SB10X63140_UN38.3	3.84	7.68	51	205	3.98
SB10T83205	5B10W13962	L19M3P72	SDS_Simplo-2101	SB10T83205_UN38.3	3.86	11.58	48	189	3.753
SB10Z26484	5B10Z26480	L19M4PG3	SDS_Simplo-2101	SB10Z26484_UN38.3	3.86	7.72	42	160	6.564
SB10Z27863	5B10Z27861	L19M4PG4	SDS_Simplo-2101	SB10Z27863_UN38.3	3.86	7.72	42	160	6.564
SB10T83216	5B10W13973	L20M4P71	SDS_Simplo-2101	SB10T83216_UN38.3	3.86	15.44	57	216	4.332
SB11A13105	5B11A13107	L20M3P71	SDS_Simplo-2101	SB11A13105_UN38.3	3.86	11.58	52.9	196	4.028
SB10W51919	5B10W51818	L20M4P73	SDS_Simplo-2101	SB10W51919_UN38.3	3.84	15.36	54.7	220	4.182
SB10W51922	5B10W51821	L20M4P74	SDS_Simplo-2101	SB10W51922_UN38.3	3.84	15.36	54.7	220	4.182
SB11B79215	5B11B79217	L20M4P75	SDS_Simplo-2101	SB11B79215_UN38.3	3.88	15.52	90.08	340	6.966
SB10W51931	5B10W51832	L18M3P71	SDS_Simplo-2101	SB10W51931_UN38.3	3.84	11.52	57.08	220	4.460
SB10W51936	5B10W51837	L18M3PD1	SDS_Simplo-2101	SB10W51936_UN38.3	3.84	11.52	57	220	4.455
SB10W51940	5B10W51841	L18M6PD1	SDS_Simplo-2101	SB10W51940_UN38.3	3.82	11.46	48	225	7.542
SB10W51933	5B10W51834	L18M4P72	SDS_Simplo-2101	SB10W51933_UN38.3	3.84	15.36	50	204	3.984

新普科技股份有限公司
新世電子(常熟)有限公司
新普科技(重慶)有限公司
華普電子(常熟)有限公司
Simplo Technology Co., Ltd.
Simplo Technology(Changshu)Inc.
Simplo Technology(Chongqing)Inc.
Huapu Technology(Changshu)Inc.

MATERIAL SAFETY DATA SHEET

Issued/Revised date :January 01 2021
Document No. : SDS_Simplo-2101

1. Product and Company Identification

Product Identification :
Product name: Lithium ion rechargeable battery cell
Product code: All Polymer models ATL manufactured
Cell manufacturers: Amperex Technology Limited

2. Hazards Identification

Class Name : Not applicable for regulated class
Hazard : It may cause heat generation or electrolyte leakage if battery terminals contact with other metals. Electrolyte is flammable. In case of electrolyte leakage, move the battery from fire immediately.
Toxicity : Vapor generated from burning batteries, may make eyes, skin and throat irritate.

3. Composition / Identification on Ingredients

IMPORTANT NOTE:
The battery should not be opened or burned since the following ingredients contained within the battery that could be harmful under some circumstance if exposed or misused.
The cell contains neither metallic lithium nor lithium alloy.

Composition :
CAS Number: Not specified (3-1 and 3-2)

3-1. Cases: Plastic Material Not dangerous
3-2. Printed Circuit Board Assembly: Not dangerous
3-3. Lithium Ion Cell :

Hazardous Ingredients	%	CAS Number
Graphite	7-25	7782-42-5
Lithium cobalt	15-40	12190-79-3
Lithium Nickel Cobalt Manganese Oxide	5-40	182442-95-1
Lithium Hexafluorophosphate	0-5	21324-40-3
Acetylene Black	0-2	1333-86-4
Diethyl Carbonate	0-15	105-58-8
Dimethyl Carbonate	0-15	616-38-6
Ethyl Methyl Carbonate	0-15	623-53-0
Propylene Carbonate	0-15	108-32-7
Ethylene Carbonate	0-15	96-49-1

4. First Aid Measures

Batteries do not present a health hazard under normal use and handling. First-aid measures in the event of exposure to internal cell contents are:

Inhalation :	Remove to fresh air immediately. If breathing is difficult, seek emergency medical attention.
Skin contact :	May cause skin irritation , Remove contaminated clothes and shoes immediately. Wash extraneous matter or contact region with soap and plenty of water immediately.
Eye contact :	May cause eye irritation , Do not rub one's eyes. Immediately flush eyes with water continuously for at least 15 minutes. Seek medical attention immediately.
Ingestion :	Ingestion of battery chemicals can be harmful, Make the victim vomit. When it is impossible or the feeling is not well after vomiting, seek medical attention.

5. Fire Fighting Measures

Use specified extinguishers (gas, foam, powder) and extinguishing system under the Fire Defense Law.
Since corrosive gas may be produced at the time of fire extinguishing, use an air inhalator when danger is predicted.
Use a large amount of water as a supportive measure in order to get cooling effect if needed. (Indoor/outdoor fire hydrant)
Carry away flammable materials immediately in case of fire.
Move batteries to a safer place immediately in case of fire.

6. Accidental Release Measures

Wipe off with dry cloth
Keep away from fire
Wear safety goggles, safety gloves as needed

7. Precautions for Safe Handling and Use

Storage:	Store within the recommended limit of -20℃ to 45℃ (-4℉ to 113℉), well-ventilated area. Do not expose to high temperature (60℃/140℉). Since short circuit can cause burn hazard or gas release, do not store with metal jewelry, metal covered tables, or metal belt. The lithium ion battery should be between 25% and 75% of full charge when stored for a long period of time. Store in a cool, dry, well-ventilated area. And temperature above 100 Celsius degree can result in loss of battery performance, leakage, or rust. Do not expose the battery to open flames..
Handling :	Do not disassemble, remodel, or solder. Do not short + and - terminals with a metal. Do not open the battery.
Charging:	Charge within the limits of 0℃ to 45℃ (32℉ to 113℉) temperature. Charge with specified charger designed for this battery.
Discharging :	Discharge within the limits of -20℃ to 60℃ (-4 ℉ to 140℉) temperature. Disposal : Dispose in accordance with applicable federal, state and local regulations. Caution : Fire, Explosion, and Severe Burn Hazard. Do not Crush, Disassemble, Heat Above 100℃/212℉, or Incinerate.

8. Exposure Controls / Personal Protection (In case electrolyte is leaked from battery)

Acceptable concentration : Not specified in ACGIH. Facilities : Provide appropriate ventilation such as local ventilation system in the storage. Protective clothing : Gas mask for organic gases, safety goggle, safety glove.

9. Physical and Chemical Properties

State	Solid

Odor	N/A
PH	N/A
Vapor pressure	N/A
Vapor density	N/A
Boiling point	N/A
Solubility in water	Insoluble
Specific gravity	N/A
Density	N/A

10.Stability and Reactivity

External short-circuit, deformation by crush, high temperature (over 100℃) exposure of a battery cause generation of heat and ignition.

11.Toxicological Information

Acute toxicity : No information as a battery.
Local effects : No information as a battery.

12.Ecological Information

When exhausted battery is buried in the ground, corrosion may be caused on the outer case of battery and electrolyte may be oozed. There is no information on environmental influence.

13.Disposal Consideration

When battery is disposed, isolate positive (+) and negative (-) terminals of the battery to avoid those terminals from touching each other. Batteries may be short-circuited when piled up or mixed with the other batteries in disorder. Dispose in accordance with applicable federal, state and local regulations

14.Transport Information

In the case of transportation, avoid exposure to high temperature and prevent the formation of any condensation. Take in a cargo of them without falling, dropping and breakage. Prevent collapse of cargo piles and wet by rain. The container must be handled carefully. Do not give shocks that result in a mark of hitting on a cell. Please refer to Section 7-HANDLING AND STORAGE also.

UN regulation

UN number: 3480 (3481 when the battery is contained in equipment or packed with equipment) Proper shipping name: Lithium ion batteries (“lithium ion batteries contained in equipment” or “lithium ion batteries packed with equipment”) Class: 9 * * Although this product meets the criteria of “dangerous goods” and are classified as “lithium ion batteries”, depending on the battery’s total capacity in the packaging, etc., they may not be subject to the fully regulated provisions.

Regulation depends on region and transportation mode

Worldwide - Air transportation:
ICAO/IATA-DGR [packing instruction 965 section IB or II] (When shipping batteries “packed with” or “contained in” equipment, use packing instruction 966 or 967 as appropriate.)

Worldwide - Ocean transportation:
IMO-IMDG Code [special provision 188 and 230]

Europe - Ground transportation: ADR [special provision 188 and 230]

** Instructions or provisions in the box brackets are conditions to make the battery cell exempted from full regulation.*

15.Regulatory Information

IMDG Code: International Maritime Dangerous Goods (IMDG) Code 2020 Edition (Amendment 40-20)
ICAO TI: International Civil Aviation Organization (ICAO) Technical Instructions for the Safe Transport of Dangerous Goods by Air 2021-2022 Edition
IATA DGR: International Air Transport Association (IATA) Dangerous Goods Regulations (62nd Edition, 2021)

16.Other Information

The information contained herein is furnished without warranty of any kind, Users should consider this data only as a supplement to other information gathered by them and must make independent determinations of the suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers.