



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

### 1. Basic item

Product name	Rechargeable Li-ion 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
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-2401".
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)
5B10L55039		L15M6PC0	SDS_Simplo-2401	5B10L55039_UN38.3	3.75	7.5	46	200	11.043
5B10M49824		L15M3PB0	SDS_Simplo-2401	5B10M49824_UN38.3	3.75	11.25	53	214	4.203
5B10M50528		L15M2PB1	SDS_Simplo-2401	5B10M50528_UN38.3	3.75	7.5	35	160	2.802
5B10M52740		L16M4PB1	SDS_Simplo-2401	5B10M52740_UN38.3	3.84	7.68	48	195	3.7608
5B10M55951		L16M4PB2	SDS_Simplo-2401	5B10M55951_UN38.3	3.75	15	55	235	4.41
5B10M86148		L16M2PB1	SDS_Simplo-2401	5B10M86148_UN38.3	3.70	7.4	30	140	2.448
5B10M86149		L16M2PB2	SDS_Simplo-2401	5B10M86149_UN38.3	3.75	7.5	35	140	2.802
5B10N00765		L16M4PB3	SDS_Simplo-2401	5B10N00765_UN38.3	3.84	7.68	96	200	7.5216
5B10N01565		L16M4P60	SDS_Simplo-2401	5B10N01565_UN38.3	3.84	7.68	70	260	5.472
5B10N87358		L17M3P61	SDS_Simplo-2401	5B10N87358_UN38.3	3.84	11.52	36	140	2.8494
5B10P35083		L17M4PB1	SDS_Simplo-2401	5B10P35083_UN38.3	3.84	15.36	80	320	6.222
5B10P53995		L17M2PB4	SDS_Simplo-2401	5B10P53995_UN38.3	3.84	7.68	39	150	3.048
5B10P53996		L17M2PB2	SDS_Simplo-2401	5B10P53996_UN38.3	3.84	7.68	39	140	3.048
5B10P53998		L17M2PB3	SDS_Simplo-2401	5B10P53998_UN38.3	3.75	7.5	30	140	2.4
5B10P54001		L17M2PB1	SDS_Simplo-2401	5B10P54001_UN38.3	3.75	7.5	30	140	2.4
5B10P98183		L17M2PB5	SDS_Simplo-2401	5B10P98183_UN38.3	3.84	7.68	39	180	3.048
5B10P98184		L17M2PB5	SDS_Simplo-2401	5B10P98184_UN38.3	3.84	7.68	39	180	3.048
5B10Q13163		L17M3PB0	SDS_Simplo-2401	5B10Q13163_UN38.3	3.75	11.25	42	180	3.3615
5B10Q13164		L17M3PB0	SDS_Simplo-2401	5B10Q13164_UN38.3	3.75	11.25	42	180	3.3615
5B10Q16066		L17M4PB0	SDS_Simplo-2401		3.84	7.68	46	185	3.558
5B10Q22883		L17M4PB2	SDS_Simplo-2401	5B10Q22883_UN38.3	3.84	11.52	34	140	2.6685
5B10Q38238		L16M4PB1	SDS_Simplo-2401	5B10Q38238_UN38.3	3.84	7.68	48	200	3.7608
5B10Q39199		L17M3P61	SDS_Simplo-2401	5B10Q39199_UN38.3	3.84	11.52	36	145	2.8494
5B10Q39202		L15M3PB0	SDS_Simplo-2401	5B10Q39202_UN38.3	3.75	11.25	53	215	3.645
5B10Q39204		L14M2P21	SDS_Simplo-2401	5B10Q39204_UN38.3	3.70	7.4	30	153	2.43
5B10Q41210		L17M3PH0	SDS_Simplo-2401	5B10Q41210_UN38.3	3.84	11.52	47.98	200	3.7485
5B10Q41211		L17M2PF0	SDS_Simplo-2401	5B10Q41211_UN38.3	3.75	7.5	35	140	2.802
5B10Q56954		L16M2PB1	SDS_Simplo-2401	5B10Q56954_UN38.3	3.75	7.5	30	140	2.4
5B10Q62139		L17M2PF2	SDS_Simplo-2401	5B10Q62139_UN38.3	3.84	7.68	30	150	2.346
5B10Q80766		L17M3PG1	SDS_Simplo-2401	5B10Q80766_UN38.3	3.75	11.25	52.5	212	4.203
5B10Q82426		L17M4PH1	SDS_Simplo-2401	5B10Q82426_UN38.3	3.84	15.36	60	245	4.692

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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)
5B10Q88555		L17M3PG2	SDS_Simplo-2401	5B10Q88555_UN38.3	3.84	11.52	57	212	4.4595
5B10Q88556		L17M4PG2	SDS_Simplo-2401	5B10Q88556_UN38.3	3.84	15.36	76	307.5	5.946
5B10Q88560		L17M3PG2	SDS_Simplo-2401	5B10Q88560_UN38.3	3.84	11.52	57	225	4.4595
5B10Q93737		L17M2PF3	SDS_Simplo-2401	5B10Q93737_UN38.3	3.84	7.68	39	140	3.048
5B10R24750		L17M2PF0	SDS_Simplo-2401	5B10R24750_UN38.3	3.75	7.5	35	145	2.802
5B10R32749		L17M4PE1	SDS_Simplo-2401	5B10R32749_UN38.3	3.84	11.36	42	175	3.282
5B10R33000		L17M6PF0	SDS_Simplo-2401	5B10R33000_UN38.3	3.82	11.46	48	275	3.771
5B10R37086		L17M4PH3	SDS_Simplo-2401	5B10R37086_UN38.3	3.84	7.68	60	260	3.111
5B10R38650		L17M4PF0	SDS_Simplo-2401	5B10R38650_UN38.3	3.84	15.36	45	185	3.558
5B10R51233		L18M4PG0	SDS_Simplo-2401	5B10R51233_UN38.3	3.75	7.5	56	240	4.482
5B10S73396		L17M3PB0	SDS_Simplo-2401	5B10S73396_UN38.3	3.75	11.25	42	180	3.36
5B10T04979		L18M3PG2	SDS_Simplo-2401	5B10T04979_UN38.3	3.84	11.52	57	230	4.455
5B10T07386		L18M4PC0	SDS_Simplo-2401	5B10T07386_UN38.3	3.86	7.72	52	220	1.989
5B10T09080		L18M4PF4	SDS_Simplo-2401	5B10T09080_UN38.3	3.86	15.44	50	195	3.936
5B10T09111		L18M3PG2	SDS_Simplo-2401	5B10T09111_UN38.3	3.84	11.52	57	230	4.455
5B10T11585		L18M4PH0	SDS_Simplo-2401	5B10T11585_UN38.3	3.84	7.68	60	260	4.692
5B10T30214		L17M3PG2	SDS_Simplo-2401	5B10T30214_UN38.3	3.84	11.52	57	227	4.4595
5B10T30216		L17M3PG1	SDS_Simplo-2401	5B10T30216_UN38.3	3.75	11.25	52.5	220	4.203
5B10T36866		L17M3PB0	SDS_Simplo-2401	5B10T36866_UN38.3	3.75	11.25	42	180	3.3615
5B10T83739		L18M3PFA	SDS_Simplo-2401	5B10T83739_UN38.3	3.84	11.52	60.3	240	4.7115
5B10U97772		L19M4PD2	SDS_Simplo-2401	5B10U97772_UN38.3	3.84	15.36	62.3	245	4.872
SB10T83184	5B10W13941	L18M3PG2	SDS_Simplo-2401	SB10T83184_UN38.3	3.84	11.52	57	230	4.455
SB10T83187	5B10W13944	L18M3PG2	SDS_Simplo-2401	SB10T83187_UN38.3	3.84	11.52	57	230	4.455
SB10T83188	5B10W13945	L17M3PB0	SDS_Simplo-2401	SB10T83188_UN38.3	3.75	11.25	42	180	3.3615
SB10V25256	5B10V25257	L19M2PF0	SDS_Simplo-2401	SB10V25256_UN38.3	3.75	7.5	35	150	2.802
SB10V26975	5B10V26973	L19M4PG0	SDS_Simplo-2401	SB10V26975_UN38.3	3.84	15.36	60.9	260	4.764
SB10W52015	5B10W52014	L17M3PB0	SDS_Simplo-2401	SB10W52015_UN38.3	3.75	11.25	42	180	3.3615
SB10W65282	5B10W65297	L19M4PF4	SDS_Simplo-2401	SB10W65282_UN38.3	3.84	15.36	60.8	253	4.8
SB10W67188	5B10W67371	L17M4PG2	SDS_Simplo-2401	SB10W67188_UN38.3	3.84	15.36	76	307.5	5.946
SB10W67189	5B10W67380	L17M3PG2	SDS_Simplo-2401	SB10W67189_UN38.3	3.84	11.52	57	212	4.4595
SB10W67193	5B10W67216	L17M6PF0	SDS_Simplo-2401	SB10W67193_UN38.3	3.82	11.46	48	275	3.771
SB10W67196	5B10W67238	L17M3PG1	SDS_Simplo-2401	SB10W67196_UN38.3	3.75	11.25	52.5	212	4.203
SB10W67197	5B10W67287	L18M4PG0	SDS_Simplo-2401	SB10W67197_UN38.3	3.75	7.5	56	240	4.482
SB10W67212	5B10W67292	L17M3PG2	SDS_Simplo-2401	SB10W67212_UN38.3	3.84	11.52	57	225	4.4595
SB10W67213	5B10W67356	L17M2PB5	SDS_Simplo-2401	SB10W67213_UN38.3	3.84	7.68	39	180	3.048

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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)
SB10W67225	5B10W67262	L17M2PB2	SDS_Simplo-2401	SB10W67225_UN38.3	3.84	7.68	39	140	3.048
SB10W67227	5B10W67423	L17M2PB3	SDS_Simplo-2401	SB10W67227_UN38.3	3.75	7.5	30	140	2.4
SB10W67230	5B10W67232	L14M2P21	SDS_Simplo-2401	SB10W67230_UN38.3	3.70	7.4	30	153	2.43
SB10W67231	5B10W67379	L17M2PB1	SDS_Simplo-2401	SB10W67231_UN38.3	3.70	7.4	30	153	2.43
SB10W67233	5B10W67240	L19M4PG0	SDS_Simplo-2401	SB10W67233_UN38.3	3.84	15.36	60.9	260	4.764
SB10W67237	5B10W67245	L17M2PF3	SDS_Simplo-2401	SB10W67237_UN38.3	3.84	15.36	60.9	260	4.764
SB10W67246	5B10W67163	L16M2PB1	SDS_Simplo-2401	SB10W67246_UN38.3	3.70	7.4	30	140	2.448
SB10W67248	5B10W67285	L15M3PB1	SDS_Simplo-2401	SB10W67248_UN38.3	3.70	11.1	45	210	3.645
SB10W67270	5B10W67229	L16M4PB1	SDS_Simplo-2401	SB10W67270_UN38.3	3.84	7.68	48	200	3.7608
SB10W67283	5B10W67274	L17M4PE1	SDS_Simplo-2401	SB10W67283_UN38.3	3.84	11.36	42	175	3.282
SB10W67299	5B10W67383	L17M2PB5	SDS_Simplo-2401	SB10W67299_UN38.3	3.84	7.68	39	180	3.048
SB10W67301	5B10W67273	L17M4PH1	SDS_Simplo-2401	SB10W67301_UN38.3	3.84	15.36	60	245	4.692
SB10W67317	5B10W67171	L19M2PF0	SDS_Simplo-2401	SB10W67317_UN38.3	3.75	7.5	35	150	2.802
SB10W67323	5B10W67374	L18M4PH0	SDS_Simplo-2401	SB10W67323_UN38.3	3.84	7.68	60	260	4.692
SB10W67331	5B10W67403	L17M4PB0	SDS_Simplo-2401	SB10W67331_UN38.3	3.84	7.68	60	260	4.692
SB10W67335	5B10W67318	L17M2PB4	SDS_Simplo-2401	SB10W67335_UN38.3	3.84	7.68	39	150	3.048
SB10W67337	5B10W67417	L18M4PF4	SDS_Simplo-2401	SB10W67337_UN38.3	3.86	15.44	50	195	3.936
SB10W67346	5B10W67263	L18M4PC0	SDS_Simplo-2401	SB10W67346_UN38.3	3.86	7.72	52	220	1.989
SB10W67348	5B10W67424	L19M4PD2	SDS_Simplo-2401	SB10W67348_UN38.3	3.84	15.36	62.3	245	4.872
SB10W67375	5B10W67258	L18M3PFA	SDS_Simplo-2401	SB10W67375_UN38.3	3.84	11.52	60.3	240	4.7115
SB10W67378	5B10W67165	L16M2PB2	SDS_Simplo-2401	SB10W67378_UN38.3	3.75	7.5	35	140	2.802
SB10W67382	5B10W67272	L17M2PF0	SDS_Simplo-2401	SB10W67382_UN38.3	3.75	7.5	35	140	2.802
SB10W67409	5B10W67236	L15M3PB0	SDS_Simplo-2401	SB10W67409_UN38.3	3.75	11.25	53	215	3.645
SB10W67414	5B10W67405	L17M4PF0	SDS_Simplo-2401	SB10W67414_UN38.3	3.84	15.36	45	185	3.558
SB10W67429	5B10W67249	L16M4P60	SDS_Simplo-2401	SB10W67429_UN38.3	3.84	7.68	70	260	5.472
SB10W69448	5B10W69465	L17M3PG1	SDS_Simplo-2401	SB10W69448_UN38.3	3.75	11.25	52.5	220	4.203
SB10W84711	5B10W84712	L19M4PD4	SDS_Simplo-2401	SB10W84711_UN38.3	3.84	7.68	60	243	9.2472
SB10W86191	5B10W86195	L19M4PC0	SDS_Simplo-2401	SB10W86191_UN38.3	3.86	15.44	61	220	4.752
SB10W86946	5B10W86940	L19M4PF1	SDS_Simplo-2401	SB10W86946_UN38.3	3.75	15	70	300	5.604
SB10W86952	5B10W86944	L19M3PF6	SDS_Simplo-2401	SB10W86952_UN38.3	3.84	11.52	57	222	4.5045
SB10W86953	5B10W86936	L19M3PF3	SDS_Simplo-2401	SB10W86953_UN38.3	3.80	11.4	45	230	3.582
SB10W86956	5B10W86939	L19M3PF4	SDS_Simplo-2401	SB10W86956_UN38.3	3.84	11.52	57	230	4.4235
SB10W89298	5B10W89290	L15M3PB0	SDS_Simplo-2401	SB10W89298_UN38.3	3.75	11.25	53	214	4.203
SB10X02592	5B10X02604	L19M3PF8	SDS_Simplo-2401	SB10X02592_UN38.3	3.86	11.58	38	150	2.916
SB10X18190	5B10X18187	L19M4PF2	SDS_Simplo-2401	SB10X18190_UN38.3	3.84	15.36	70	287	5.472

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SB10X49076	5B10X49072	L19M3PD6	SDS_Simplo-2401	SB10X49076_UN38.3	3.84	11.52	53	222	4.1265
SB10X65685	5B10X65680	L19M3PG1	SDS_Simplo-2401	SB10X65685_UN38.3	3.84	11.52	47	188	3.6945
SB10X82538	5B10X82537	L19M2PD7	SDS_Simplo-2401	SB10X82538_UN38.3	3.84	7.68	30	120	2.361
SB10X87838	5B10X87839	L19M4PD8	SDS_Simplo-2401	SB10X87838_UN38.3	3.84	7.68	41	160	3.246
SB10Y75088	5B10Y75090	L19M4PH0	SDS_Simplo-2401	SB10Y75088_UN38.3	3.86	7.72	64	250	5.028
SB10Z19322	5B10Z19320	L19M3PD9	SDS_Simplo-2401	SB10Z19322_UN38.3	3.84	11.52	58	225	4.5045
SB10Z33894	5B10Z33896	L19M4PH2	SDS_Simplo-2401	SB10Z33894_UN38.3	3.84	7.68	60	240	4.692
SB10Z37619	5B10Z37621	L19M4PDD	SDS_Simplo-2401	SB10Z37619_UN38.3	3.86	15.44	56	210	4.4244
SB11B36274	5B11B36279	L20M3PF0	SDS_Simplo-2401	SB11B36274_UN38.3	3.70	11.1	46	222	3.726
SB11B36282	5B11B36280	L20M2PF0	SDS_Simplo-2401	SB11B36282_UN38.3	3.84	7.68	38	149	2.973
SB11B36306	5B11B36313	L20M3PG0	SDS_Simplo-2401	SB11B36306_UN38.3	3.84	11.52	47	186	3.6945
SB11B36311	5B11B36312	L20M3PG0	SDS_Simplo-2401	SB11B36311_UN38.3	3.84	11.52	47	186	3.6945
SB11B36316	5B11B36317	L20M3PG2	SDS_Simplo-2401	SB11B36316_UN38.3	3.75	11.25	42	179	3.3597
SB11B36320	5B11B36315	L20M3PG1	SDS_Simplo-2401	SB11B36320_UN38.3	3.84	11.52	57	230	4.455
SB11B44630	5B11B44628	L20M4PE0	SDS_Simplo-2401	SB11B44630_UN38.3	3.86	7.72	41	161	3.246
SB11B44631	5B11B44633	L20M3PF1	SDS_Simplo-2401	SB11B44631_UN38.3	3.80	11.4	57	228	4.4595
SB11B48831	5B11B48816	L20M4PC0	SDS_Simplo-2401	SB11B48831_UN38.3	3.84	15.36	60	254	4.692
SB11B65324	5B11B65325	L20M4PD1	SDS_Simplo-2401	SB11B65324_UN38.3	3.87	15.48	53	206	4.11
SB11C04262	5B11C04261	L20M4PD3	SDS_Simplo-2401	SB11C04262_UN38.3	3.84	15.36	71	269	5.5464
SB11C87804	5B11C87808	L20M3PG4	SDS_Simplo-2401	SB11C87804_UN38.3	3.84	11.52	57	230	4.455
SB11D64648	5B11D64650	L21M4PG0	SDS_Simplo-2401	SB11D64648_UN38.3	3.86	7.72	42	162	3.282
SB11D70894	5B11D70895	L21M3PF0	SDS_Simplo-2401	SB11D70894_UN38.3	3.75	11.25	42	187	3.3615
SB11D96866	5B11D96864	L21M4PD0	SDS_Simplo-2401	SB11D96866_UN38.3	3.88	15.52	56	204	4.386
SB11E40211	5B11E40206	L21M3PD5	SDS_Simplo-2401	SB11E40211_UN38.3	3.88	11.64	45	200	3.609
SB11E40212	5B11E40202	L21M4PD6	SDS_Simplo-2401	SB11E40212_UN38.3	3.88	15.52	60	241	4.812
SB11F09735	5B11F09737	L21M4PD8	SDS_Simplo-2401	SB11F09735_UN38.3	3.84	15.36	71	270	5.562
SB11F09741	5B11F09734	L21M3PD7	SDS_Simplo-2401	SB11F09741_UN38.3	3.84	11.52	57	250	4.459
SB11F24146	5B11F24158	L21M4PC0	SDS_Simplo-2401	SB11F24146_UN38.3	3.86	15.44	60	255	4.812
SB11F24155	5B11F24152	L21M4PC2	SDS_Simplo-2401	SB11F24155_UN38.3	3.86	15.44	80	332	6.414
SB11F29419	5B11F29413	L21M4PE1	SDS_Simplo-2401	SB11F29419_UN38.3	3.88	15.52	99.99	361	7.734
SB11F35902	5B11F35906	L21M4PH1	SDS_Simplo-2401	SB11F35902_UN38.3	3.88	15.52	75	260	5.802
SB11F36375	5B11F36371	L21M3PC0	SDS_Simplo-2401	SB11F36375_UN38.3	3.84	11.52	45	204	3.609
SB11F38041	5B11F38042	L21M3PE0	SDS_Simplo-2401	SB11F38041_UN38.3	3.84	11.52	52.5	230	4.1265
SB11F38368	5B11F38367	L21M4PE3	SDS_Simplo-2401	SB11F38368_UN38.3	3.84	15.36	71	270	5.562
SB11F48153	5B11F48161	L21M4PH2	SDS_Simplo-2401	SB11F48153_UN38.3	3.84	15.36	76	300	6.006
SB11F52562	5B11F52561	L21M4PE4	SDS_Simplo-2401	SB11F52562_UN38.3	3.86	15.44	50	190	3.918



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)
SB11F52563	5B11F52558	L21M4PC7	SDS_Simplo-2401	SB11F52563_UN38.3	3.88	15.52	70	267	5.49
SB11F99195	5B11F99196	L21M4PG4	SDS_Simplo-2401	SB11F99195_UN38.3	3.86	7.72	51	196	3.966
SB11G00002	5B11G00000	L21M4PH3	SDS_Simplo-2401	SB11G00002_UN38.3	3.86	7.72	50.2	195	3.918
SB11H10609	5B11H10608	L21M4PH4	SDS_Simplo-2401	SB11H10609_UN38.3	3.86	15.44	69.3	264	5.316
SB11H31566	5B11H31568	L21M4PE0	SDS_Simplo-2401	SB11H31566_UN38.3	3.88	15.52	70	280	5.4852
SB11J07487	5B11J07489	L21M4PG5	SDS_Simplo-2401	SB11J07487_UN38.3	3.84	7.68	71	274	5.448
SB11J13865	5B11J13866	L21M3PE2	SDS_Simplo-2401	SB11J13865_UN38.3	3.88	11.64	59	211	4.4955
SB11J63613	5B11J63612	L22M4PF0	SDS_Simplo-2401	SB11J63613_UN38.3	3.86	15.44	60	235	4.632
SB11J63620	5B11J63623	L22M4PF1	SDS_Simplo-2401	SB11J63620_UN38.3	3.88	15.52	65	240	4.95
SB11K08655	5B11K08654	L22M3PG1	SDS_Simplo-2401	SB11K08655_UN38.3	3.84	11.52	57	226	4.356
SB11K09315	5B11K09317	L22M3PF2	SDS_Simplo-2401	SB11K09315_UN38.3	3.77	11.31	47	190	3.6855
SB11K20677	5B11K20679	L21M4PD6	SDS_Simplo-2401	SB11K20677_UN38.3	3.88	15.52	62	241	4.71
SB11K24748	5B11K24747	L22M2PG2	SDS_Simplo-2401	SB11K24748_UN38.3	3.84	7.68	38.4	156	2.9334
SB11K24756	5B11K24757	L22M4PF3	SDS_Simplo-2401	SB11K24756_UN38.3	3.89	15.56	75	274	5.67
SB11K24759	5B11K24764	L22M4PF4	SDS_Simplo-2401	SB11K24759_UN38.3	3.88	15.52	73	270	5.538
SB11K24759	5B11K24764	L22M4PF4	SDS_Simplo-2401	SB11K24759_UN38.3	3.88	15.52	71	270	5.538
SB11K24765	5B11K24773	L22M4PF5	SDS_Simplo-2401	SB11K24765_UN38.3	3.89	15.56	75	275	5.67
SB11K38531	5B11K38526	L22M4PA0	SDS_Simplo-2401	SB11K38531_UN38.3	3.86	15.44	60	252	4.812
SB11K38964	5B11K38966	L22M4PA1	SDS_Simplo-2401	SB11K38964_UN38.3	3.84	15.36	71	271	5.448
SB11K39111	5B11K39112	L22M4PA2	SDS_Simplo-2401	SB11K39111_UN38.3	3.88	15.52	73.6	272	5.592
SB11K39336	5B11K39337	L22M4PH0	SDS_Simplo-2401	SB11K39336_UN38.3	3.90	7.8	80	271	6.036
SB11K39345	5B11K39347	L22M4PG3	SDS_Simplo-2401	SB11K39345_UN38.3	3.84	15.36	71	272	5.448
SB11K39354	5B11K39361	L22M3PA4	SDS_Simplo-2401	SB11K39354_UN38.3	3.77	11.52	56.6	226	4.356
SB11K39358	5B11K39355	L22M4PA5	SDS_Simplo-2401	SB11K39358_UN38.3	3.84	15.36	75.4	297	5.808
SB11K39363	5B11K39362	L22M3PA3	SDS_Simplo-2401	SB11K39363_UN38.3	3.84	11.31	47	193	3.6855
SB11K40865	5B11K40866	L22M4PF6	SDS_Simplo-2401	SB11K40865_UN38.3	3.89	15.56	75	276	5.67
SB11K56840	5B11K56841	L22M4PF7	SDS_Simplo-2401	SB11K56840_UN38.3	3.87	15.48	70	251	5.316
SB11K63030	5B11K63029	L22M3PG5	SDS_Simplo-2401	SB11K63030_UN38.3	3.77	11.52	57	224	4.356
SB11K86442	5B11K86443	L22M3PF8	SDS_Simplo-2401	SB11K86442_UN38.3	3.77	11.31	47	190	3.69
SB11L67315	5B11L67337	L22M4PE0	SDS_Simplo-2401	SB11L67315_UN38.3	3.86	15.44	60	242	4.58
SB11L67333	5B11L67323	L22M3PE0	SDS_Simplo-2401	SB11L67333_UN38.3	3.86	11.58	45	182	3.45
SB11M35210	-	L23M4PE1	SDS_Simplo-2401	SB11M35210_UN38.3	3.90	15.6	74	238	5.58
SB11M36297	5B11M36298	L23M2PK0	SDS_Simplo-2401	SB11M36297_UN38.3	3.88	7.76	49.2	184	3.87
SB11M51929	5B11M51928	L23M4PK3	SDS_Simplo-2401	SB11M51929_UN38.3	3.77	15.08	76	296	6.048



# 新普科技股份有限公司

## SIMPLO TECHNOLOGY CO., LTD.

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)
SB11M51937	5B11M51934	L23M4PK2	SDS_Simplo-2401	SB11M51937_UN38.3	3.77	15.08	76	303	6.048
SB11M51940	5B11M51941	L23M3PK1	SDS_Simplo-2401	SB11M51940_UN38.3	3.77	11.31	57	225	4.5864
SB11M63866	5B11M63872	L23M4PF1	SDS_Simplo-2401	SB11M63866_UN38.3	3.90	15.6	84	287	6.54
SB11M64615	5B11M64608	L23M4PK4	SDS_Simplo-2401	SB11M64615_UN38.3	3.86	15.44	60	252	4.812
SB11M67490	5B11M67496	L23M4PG1	SDS_Simplo-2401	SB11M67490_UN38.3	3.89	15.6	85	287	6.414
SB11M74075	5B11M74076	L23M3PE1	SDS_Simplo-2401	SB11M74075_UN38.3	3.77	11.31	57	228	4.5864
SB11N45296	5B11N45298	L22M4PF1	SDS_Simplo-2401	SB11N45296_UN38.3	3.88	15.52	65	240	4.95
SB11N45299	5B11N45324	L22M4PF6	SDS_Simplo-2401	SB11N45299_UN38.3	3.89	15.56	75	276	5.67
SB11N45308	5B11N45307	L22M3PF2	SDS_Simplo-2401	SB11N45308_UN38.3	3.77	11.31	47	190	3.6855
SB11N45313	5B11N45339	L22M4PF5	SDS_Simplo-2401	SB11N45313_UN38.3	3.89	15.56	75	275	5.67
SB11N45322	5B11N45330	L22M4PF4	SDS_Simplo-2401	SB11N45322_UN38.3	3.88	15.52	73	270	5.538
SB11N45325	5B11N45321	L22M4PF3	SDS_Simplo-2401	SB11N45325_UN38.3	3.89	15.56	75	274	5.67
SB11N45338	5B11N45294	L22M4PF0	SDS_Simplo-2401	SB11N45338_UN38.3	3.86	15.44	60	235	4.632
SB11N45411	5B11N45433	L22M3PA4	SDS_Simplo-2401	SB11N45411_UN38.3	3.77	11.52	56.6	226	4.356
SB11N45417	5B11N45416	L22M4PF7	SDS_Simplo-2401	SB11N45417_UN38.3	3.87	15.48	70	251	5.316
SB11N45421	5B11N45437	L22M4PH0	SDS_Simplo-2401	SB11N45421_UN38.3	3.90	7.8	80	271	6.036
SB11N45422	5B11N45397	L22M4PG3	SDS_Simplo-2401	SB11N45422_UN38.3	3.84	15.36	71	272	5.448
SB11N45424	5B11N45396	L22M3PA3	SDS_Simplo-2401	SB11N45424_UN38.3	3.84	11.31	47	193	3.6855
SB11N45434	5B11N45413	L22M4PA5	SDS_Simplo-2401	SB11N45434_UN38.3	3.84	15.36	75.4	297	5.808
SB11N45960	5B11N45972	L22M4PA2	SDS_Simplo-2401	SB11N45960_UN38.3	3.88	15.52	73.6	272	5.592
SB11N45986	5B11N45996	L22M2PG2	SDS_Simplo-2401	SB11N45986_UN38.3	3.84	7.68	38.4	156	2.9334
SB11N45998	5B11N46031	L22M3PG5	SDS_Simplo-2401	SB11N45998_UN38.3	3.77	11.52	57	224	4.356
SB11N46017	5B11N45946	L22M4PA0	SDS_Simplo-2401	SB11N46017_UN38.3	3.86	15.44	60	252	4.812
SB11N46027	5B11N45944	L22M4PA1	SDS_Simplo-2401	SB11N46027_UN38.3	3.84	15.36	71	271	5.448
SB11N46037	5B11N45964	L21M4PD6	SDS_Simplo-2401	SB11N46037_UN38.3	3.88	15.52	60	241	4.812
SB11N47426	5B11N47454	L21M3PE2	SDS_Simplo-2401	SB11N47426_UN38.3	3.88	11.64	59	211	4.4955
SB11N47458	5B11N47460	L21M4PC2	SDS_Simplo-2401	SB11N47458_UN38.3	3.86	15.44	80	332	6.414
SB11N47466	5B11N47448	L21M4PH1	SDS_Simplo-2401	SB11N47466_UN38.3	3.88	15.52	75	260	5.802
SB11N47483	5B11N47442	L22M4PE0	SDS_Simplo-2401	SB11N47483_UN38.3	3.86	15.44	60	242	4.58
SB11N47487	5B11N47430	L21M4PC0	SDS_Simplo-2401	SB11N47487_UN38.3	3.86	15.44	60	255	4.812
SB11N47503	5B11N47497	L22M3PE0	SDS_Simplo-2401	SB11N47503_UN38.3	3.86	11.58	45	182	3.45
SB11N51719	5B11N51745	L21M4PH3	SDS_Simplo-2401	SB11N51719_UN38.3	3.86	7.72	50.2	195	3.918
SB11N51720	5B11N51716	L21M4PC7	SDS_Simplo-2401	SB11N51720_UN38.3	3.88	15.52	70	267	5.49
SB11N51722	5B11N51733	L21M4PH2	SDS_Simplo-2401	SB11N51722_UN38.3	3.84	15.36	76	300	6.006
SB11N51737	5B11N51735	L20M4PD3	SDS_Simplo-2401	SB11N51737_UN38.3	3.84	15.36	71	269	5.5464
SB11N51748	5B11N51759	L21M3PF0	SDS_Simplo-2401	SB11N51748_UN38.3	3.75	11.25	42	187	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)
SB11N51752	5B11N51725	L21M4PD0	SDS_Simplo-2401	SB11N51752_UN38.3	3.88	15.52	56	204	4.386
SB11N51760	5B11N51740	L21M4PE3	SDS_Simplo-2401	SB11N51760_UN38.3	3.84	15.36	71	270	5.562
SB11N52003	5B11N52044	L20M3PF0	SDS_Simplo-2401	SB11N52003_UN38.3	3.70	11.1	45.95	221.6	3.726
SB11N52006	5B11N52010	L20M3PF1	SDS_Simplo-2401	SB11N52006_UN38.3	3.80	11.4	56.5	227.6	4.4595
SB11N52034	5B11N52014	L20M2PF0	SDS_Simplo-2401	SB11N52034_UN38.3	3.84	7.68	38	149	2.973
SB11N52047	5B11N52036	L19M3PF6	SDS_Simplo-2401	SB11N52047_UN38.3	3.84	11.52	57	222	4.5045
SB11N52053	5B11N52061	L19M3PF4	SDS_Simplo-2401	SB11N52053_UN38.3	3.84	11.52	57	230	4.4235
SB11N52057	5B11N52058	L19M3PF3	SDS_Simplo-2401	SB11N52057_UN38.3	3.80	11.4	45	230	3.582
SB11N52215	5B11N52216	L21M4PE1	SDS_Simplo-2401	SB11N52215_UN38.3	3.88	15.52	99.99	361	7.734
SB11P43272	5B11P43271	L23M4PF3	SDS_Simplo-2401		3.87	7.74	70		
SB10K97635	01AV496	L17M6P51	SDS_Simplo-2401	SB10K97635_UN38.3	3.75	11.25	90	460	7.2
SB10Q76928	01AY968	L17M4P72	SDS_Simplo-2401	SB10Q76928_UN38.3	3.84	15.36	80	310	6.09
SB10K97614	01AV467	L17M2P51	SDS_Simplo-2401	SB10K97614_UN38.3	3.84	7.68	39	163	3.048
SB10K97631	01AV487	L17M3P56	SDS_Simplo-2401	SB10K97631_UN38.3	3.75	11.25	42	200.9	3.36
SB10K97626	01AV482	L17M3P55	SDS_Simplo-2401	SB10K97626_UN38.3	3.70	11.1	45	232	3.67
SB10K97623	01AV474	L17M4P71	SDS_Simplo-2401	SB10K97623_UN38.3	3.84	15.36	54	234	4.21
SB10K97618	01AV471	L17M6P71	SDS_Simplo-2401	SB10K97618_UN38.3	3.82	11.46	48	260	3.77
SB10K97621	01AV479	L17M3P71	SDS_Simplo-2401	SB10K97621_UN38.3	3.84	11.52	57	240	4.46
SB10K97611	01AV464	L17M3P53	SDS_Simplo-2401	SB10K97611_UN38.3	3.70	11.1	45	223	3.7
SB10K97607	01AV446	L17M3P51	SDS_Simplo-2401	SB10K97607_UN38.3	3.70	11.1	45	223	3.65
SB10K97603	01AV460	L16M3P72	SDS_Simplo-2401	SB10K97603_UN38.3	3.82	11.46	24	150	1.89
SB10K97636	01AV497	L17M6P52	SDS_Simplo-2401	SB10K97636_UN38.3	3.75	11.25	99	474.6	7.7
SB10K97640	02DL001	L18M3P52	SDS_Simplo-2401	SB10K97640_UN38.3	3.75	11.25	42	180	3.3615
SB10K97639	02DL000	L18M3P51	SDS_Simplo-2401	SB10K97639_UN38.3	3.75	11.25	42	180	3.3615
SB10K97650	02DL012	L18M3P71	SDS_Simplo-2401	SB10K97650_UN38.3	3.84	11.52	57	220	4.4595
SB10K97652	02DL014	L18M3PD1	SDS_Simplo-2401	SB10K97652_UN38.3	3.84	11.52	57	220	4.455
SB10K97655	02DL017	L18M6PD1	SDS_Simplo-2401	SB10K97655_UN38.3	3.82	11.46	48	225	7.542
SB10K97662	02DL026	L18M6PD3	SDS_Simplo-2401	SB10K97662_UN38.3	3.82	11.46	48	220	3.771
SB10K97664	02DL028	L18M6P90	SDS_Simplo-2401	SB10K97664_UN38.3	3.75	11.25	90	385	7.2
SB10K97643	02DL005	L18M4P72	SDS_Simplo-2401	SB10K97643_UN38.3	3.84	15.36	51	204	3.984
SB10T83129	5B10W13886	L17M3P56	SDS_Simplo-2401	SB10T83129_UN38.3	3.75	11.25	42	200.9	3.36
SB10T83133	5B10W13890	L17M3P51	SDS_Simplo-2401	SB10T83133_UN38.3	3.70	11.1	45	223	3.65
SB10T83135	5B10W13892	L17M3P55	SDS_Simplo-2401	SB10T83135_UN38.3	3.70	11.1	45	232	3.67
SB10T83138	5B10W13895	L17M3P53	SDS_Simplo-2401	SB10T83138_UN38.3	3.70	11.1	45	223	3.7
SB10T83144	5B10W13901	L18M6P90	SDS_Simplo-2401	SB10T83144_UN38.3	3.75	11.25	90	385	7.2



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)
SB10T83146	5B10W13903	L17M6P52	SDS_Simplo-2401	SB10T83146_UN38.3	3.75	11.25	99	474.6	7.7
SB10T83153	5B10W13910	L18M3PD1	SDS_Simplo-2401	SB10T83153_UN38.3	3.84	11.52	57	220	4.455
SB10T83157	5B10W13914	L18M3P71	SDS_Simplo-2401	SB10T83157_UN38.3	3.84	11.52	57	220	4.4595
SB10T83158	5B10W13915	L17M2P51	SDS_Simplo-2401	SB10T83158_UN38.3	3.84	7.68	39	163	3.048
SB10T83164	5B10W13921	L17M6P71	SDS_Simplo-2401	SB10T83164_UN38.3	3.82	11.46	48	260	3.77
SB10T83166	5B10W13923	L18M6PD1	SDS_Simplo-2401	SB10T83166_UN38.3	3.82	11.46	48	225	7.542
SB10T83174	5B10W13931	L18M4P72	SDS_Simplo-2401	SB10T83174_UN38.3	3.84	15.36	51	204	3.984
SB10T83184	5B10W13941	L18M3PG2	SDS_Simplo-2401	SB10T83184_UN38.3	3.84	11.52	57	230	4.455
SB10T83187	5B10W13944	L18M3PG2	SDS_Simplo-2401	SB10T83187_UN38.3	3.84	11.52	57	230	4.455
SB10T83188	5B10W13945	L17M3PB0	SDS_Simplo-2401	SB10T83188_UN38.3	3.75	11.25	42	180	3.3615
SB10T83195	5B10W13952	L17M6P51	SDS_Simplo-2401	SB10T83195_UN38.3	3.75	11.25	90	460	7.2
SB10X63140	5B10X63141	L19M4PG2	SDS_Simplo-2401	SB10X63140_UN38.3	3.84	7.68	51	206	3.984
SB10T83205	5B10W13962	L19M3P72	SDS_Simplo-2401	SB10T83205_UN38.3	3.86	11.58	48.2	189	3.753
SB10Z26484	5B10Z26480	L19M4PG3	SDS_Simplo-2401	SB10Z26484_UN38.3	3.86	7.72	42	160	6.564
SB10Z27863	5B10Z27861	L19M4PG4	SDS_Simplo-2401	SB10Z27863_UN38.3	3.86	7.72	42	160	6.564
SB10T83216	5B10W13973	L20M4P71	SDS_Simplo-2401	SB10T83216_UN38.3	3.86	15.44	57	216	4.332
SB11A13105	5B11A13107	L20M3P71	SDS_Simplo-2401	SB11A13105_UN38.3	3.86	11.58	52.9	196	4.0275
SB10W51919	5B10W51818	L20M4P73	SDS_Simplo-2401	SB10W51919_UN38.3	3.84	15.36	54.7	220	4.182
SB10W51922	5B10W51821	L20M4P74	SDS_Simplo-2401	SB10W51922_UN38.3	3.84	15.36	54.7	220	4.182
SB11B79215	5B11B79217	L20M4P75	SDS_Simplo-2401	SB11B79215_UN38.3	3.88	15.52	90.1	340	6.966
SB10W51931	5B10W51832	L18M3P71	SDS_Simplo-2401	SB10W51931_UN38.3	3.84	11.52	57	220	4.4595
SB10W51936	5B10W51837	L18M3PD1	SDS_Simplo-2401	SB10W51936_UN38.3	3.84	11.52	57	220	4.455
SB10W51940	5B10W51841	L18M6PD1	SDS_Simplo-2401	SB10W51940_UN38.3	3.82	11.46	48	225	7.542
SB10W51933	5B10W51834	L18M4P72	SDS_Simplo-2401	SB10W51933_UN38.3	3.84	15.36	51	204	3.984
SB11C73243	5B11C73244	L20M3PD4	SDS_Simplo-2401	SB11C73243_UN38.3	3.84	11.52	57	222	4.5045
SB11E33547	5B11E33545	L21M3PD4	SDS_Simplo-2401	SB11E33547_UN38.3	3.84	11.52	57	223	4.45
SB10W51962	5B10W51861	L21M3P71	SDS_Simplo-2401	SB10W51962_UN38.3	3.87	11.61	39.3	160	3.0528
SB10W51965	5B10W51864	L21M4P71	SDS_Simplo-2401	SB10W51965_UN38.3	3.87	15.48	52.5	202	4.0704
SB10W51970	5B10W51869	L21M4P73	SDS_Simplo-2401	SB10W51970_UN38.3	3.87	15.48	52.5	222	4.0704
SB11F21952	5B11F21953	L21M3PG2	SDS_Simplo-2401	SB11F21952_UN38.3	3.84	11.52	57	227	4.4595

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)
SB11F21949	5B11F21942	L21M3PG1	SDS_Simplo-2401	SB11F21949_UN38.3	3.75	11.25	42	204	3.3615
SB10W51954	5B10W51853	L20M4P73	SDS_Simplo-2401	SB10W51954_UN38.3	3.84	15.36	54.7	220	4.2768
SB10W51957	5B10W51856	L20M4P74	SDS_Simplo-2401	SB10W51957_UN38.3	3.84	15.36	54.7	220	4.2768
SB11F38371	5B11F38381	L21M2PG1	SDS_Simplo-2401	SB11F38371_UN38.3	3.84	7.68	30	120	2.385
SB10W51979	5B10W51878	L21M4P76	SDS_Simplo-2401	SB10W51979_UN38.3	3.87	7.74	49.5	180	3.84
SB10W51982	5B10W51881	L21M3P72	SDS_Simplo-2401	SB10W51982_UN38.3	3.88	11.64	51.5	194	4.02
SB10W51988	5B10W51887	L21M4P77	SDS_Simplo-2401	SB10W51988_UN38.3	3.88	15.52	72	270	5.568
SB11F28677	5B11F28680	L21M3P74	SDS_Simplo-2401	SB11F28677_UN38.3	3.87	11.61	49.57	194	3.843
SB11F53999	5B11F53996	L21M4PG3	SDS_Simplo-2401	SB11F53999_UN38.3	3.86	15.44	51	210	3.966
SB10W51994	5B10W51893	L21M6P70	SDS_Simplo-2401	SB10W51994_UN38.3	3.84	11.52	94	375	7.173
SB10W51998	5B10W51897	L21M3P75	SDS_Simplo-2401	SB10W51998_UN38.3	3.86	11.58	48.2	183	3.645
SB10W51996	5B10W51895	L21M3P77	SDS_Simplo-2401	SB10W51996_UN38.3	3.87	11.61	16.4	70	1.242
SB11H56245	5B11H56344	L21M3PG2	SDS_Simplo-2401	SB11H56245_UN38.3	3.84	11.52	57	227	4.46
SB11H56240	5B11H56339	L21M3PG1	SDS_Simplo-2401	SB11H56240_UN38.3	3.75	11.25	42	204	3.36
SB10W52008	5B10W51907	L21M3P76	SDS_Simplo-2401	SB10W52008_UN38.3	3.88	11.64	63	222	3.36
SB11H56246	5B11H56345	L21M3P76	SDS_Simplo-2401	SB11H56246_UN38.3	3.88	11.64	63	222	3.36
SB11K07734	5B11K07736	L20M4P75	SDS_Simplo-2401	SB11K07734_UN38.3	3.88	15.52	90.08	340	6.97
SB11H56271	5B11H56370	L22M3P76	SDS_Simplo-2401	SB11H56271_UN38.3	3.87	11.61	41	162	3.1
SB11H56267	5B11H56366	L22M4P70	SDS_Simplo-2401	SB11H56267_UN38.3	3.87	15.48	54.7	208	4.14
SB11H56274	5B11H56373	L22M4P71	SDS_Simplo-2401	SB11H56274_UN38.3	3.88	15.52	90	341	6.82
SB11H56292	5B11H56391	L22M6P70	SDS_Simplo-2401	SB11H56292_UN38.3	3.77	11.31	93.5	362	7.371
SB11M75270	5B11M75271	L23M3PG2	SDS_Simplo-2401	SB11M75270_UN38.3	3.77	11.31	57	223	4.495
SB11H56313	5B11H56412	L23M4P71	SDS_Simplo-2401	SB11H56313_UN38.3	3.87	15.44	86	361	6.636
SB11N52007	5B11N52031	L20M3PD4	SDS_Simplo-2401	SB11N52007_UN38.3	3.84	11.52	57	222	4.5045
SB11M89867	5B11M90066	L19M4PG3	SDS_Simplo-2401	SB11M89867_UN38.3	3.86	7.72	42	160	6.564
SB11M89857	5B11M90056	L20M4P71	SDS_Simplo-2401	SB11M89857_UN38.3	3.86	15.44	57	216	4.332
SB11M89877	5B11M90076	L20M3P71	SDS_Simplo-2401	SB11A13105_UN38.3	3.86	11.58	52.9	196	4.0275
SB11M89862	5B11M90061	L20M4P75	SDS_Simplo-2401	SB11M89862_UN38.3	3.88	15.52	90.1	340	6.966
SB11M89824	5B11M90023	L21M3P71	SDS_Simplo-2401	SB11M89824_UN38.3	3.87	11.61	39.3	160	3.0528
SB11M89827	5B11M90026	L21M4P71	SDS_Simplo-2401	SB11M89827_UN38.3	3.87	15.48	52.5	202	4.0704

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)
SB11M89836	5B11M90035	L21M4P73	SDS_Simplo-2401	SB11M89836_UN38.3	3.87	15.48	52.5	222	4.0704
SB11M89807	5B11M90006	L21M3PG2	SDS_Simplo-2401	SB11M89807_UN38.3	3.84	11.52	57	227	4.4595
SB11M89796	5B11H56431	L21M3PG1	SDS_Simplo-2401	SB11M89796_UN38.3	3.75	11.25	42	204	3.3615
SB11M89813	5B11M90012	L21M3P76	SDS_Simplo-2401	SB11M89813_UN38.3	3.88	11.64	63	222	3.36
SB11M89870	5B11M90069	L20M4P73	SDS_Simplo-2401	SB11M89870_UN38.3	3.84	15.36	54.7	220	4.182
SB11M89873	5B11M90072	L20M4P74	SDS_Simplo-2401	SB11M89873_UN38.3	3.84	15.36	54.7	220	4.182
SB11M89880	5B11M90079	L21M4P76	SDS_Simplo-2401	SB11M89880_UN38.3	3.87	7.74	49.5	180	3.84
SB11M89883	5B11M90082	L21M3P72	SDS_Simplo-2401	SB11M89883_UN38.3	3.88	11.64	51.5	194	4.02
SB11M89886	5B11M90085	L21M4P77	SDS_Simplo-2401	SB11M89886_UN38.3	3.88	15.52	72	270	5.568
SB11M89864	5B11M90063	L21M3P74	SDS_Simplo-2401	SB11F28677_UN38.3	3.87	11.61	49.57	194	3.843
SB11M89891	5B11M90090	L21M6P70	SDS_Simplo-2401	SB11M89891_UN38.3	3.84	11.52	94	375	7.173
SB11M89847	5B11M90046	L21M3P75	SDS_Simplo-2401	SB11M89847_UN38.3	3.86	11.58	48.2	183	3.645
SB11M89845	5B11M90044	L21M3P77	SDS_Simplo-2401	SB11M89845_UN38.3	3.87	11.61	16.4	70	1.242
SB11M89853	5B11M90052	L22M3P76	SDS_Simplo-2401	SB11M89853_UN38.3	3.87	11.61	41	162	3.1
SB11M89849	5B11M90048	L22M4P70	SDS_Simplo-2401	SB11M89849_UN38.3	3.87	15.48	54.7	208	4.14
SB11M89893	5B11M90092	L22M4P71	SDS_Simplo-2401	SB11M89893_UN38.3	3.88	15.52	90	341	6.82

# MATERIAL SAFETY DATA SHEET

Issued/Revised date: March 11 2024  
Document No.: SDS\_Simplo-2401

## 1. Product and Company Identification

Product Identification:  
Product name: Rechargeable Lithium ion 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 Oxide	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°C to 45°C (-4°F to 113°F), well-ventilated area.

Do not expose to high temperature (60°C/140°F). 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°C to 45°C (32°F to 113°F) temperature. Charge with specified charger designed for this battery.

Discharging: Discharge within the limits of -20°C to 60°C (-4 °F to 140°F) 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°C/212°F, 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
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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°C) 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] (When shipping batteries “packed with” or “contained in” equipment, use packing instruction 966 or 967 section II as appropriate.)

**Stacking Test:**

Each package offered for transport, must be capable of withstanding, without breakage or leakage of any inner packaging and without significant reduction of effectiveness, a force applied to the top surface for a duration



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of 24 hours equivalent to the total weight of identical packages if stacked to a height of 3m (including the test sample).

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 2022 Edition (Amendment 41-22)

ICAO TI: International Civil Aviation Organization (ICAO) Technical Instructions for the Safe Transport of Dangerous Goods by Air 2023-2024Edition

IATA DGR: International Air Transport Association (IATA) Dangerous Goods Regulations (65th Edition)

## **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.