

LITHIUM POLY LINE

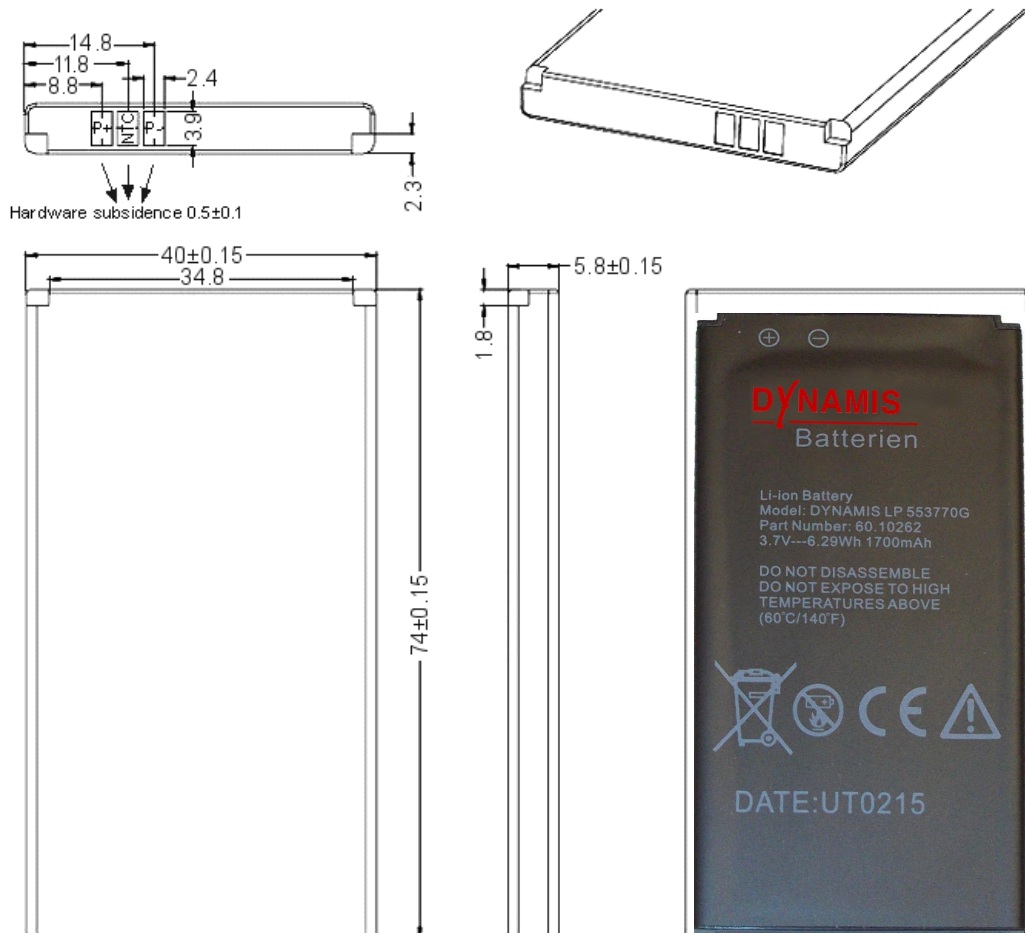
Lithium-Polymer Battery
LP 553770G

Order no. 60.10262

1. Cell Data

Rating [@ 0.2C = 330 mA]	1700 mAh (typical) 1650 mAh (minimum)
Nominal Voltage	3.7 V
Charging Voltage	4.20 V ± 0.05 V
Max. Charge Current	1C = 1650 mA
Charging Method	<u>CCCV Standard (0.2C)</u> = 330 mA CC to 4.20 V, then CV 4.2 V for 2.0 h or 32.5 mA cut-off (max 6.5 h); <u>CCCV Quick (1.0C)</u> = 1650 mA CC to 4.20 V, then CV 4.2 V for 2.0 h or 32.5 mA cut-off
Max. Continuous Discharge	1C = 1650 mA
Discharge cut-off Voltage	3.0 V
Impedance (AC, 1kHz)	< 160 mΩ
Capacity Ratings	0.5C Rating = 0.5 h after standard charge Discharge 0.5C - Discharge time ≥ 105 min to 3.0 V Retention = 0.2C discharge after 28 days storage at RT at open circuit (std charge before storage) Discharge 0.2C - Discharge time ≥ 255 min to 3.0 V
Cycle Life	Cycles 0.5C/0.5C, capacity retention ≥ 80 % after 300 cycles
Operating Temperatures	-20 °C to +60 °C (discharge) 0 °C to +45 °C (charge) Operation @ 60 ± 25 % rel. humidity
Typical Storage Condition/Delivery	50 % SOC (charged status) Long Term Storage @ full charge (4.2V) not recommended
Storage Temperatures	< 6 months: -10 °C to +35 °C
Energy Content	6.1 Wh

Dimensions & Tolerances (mm)



2. PCM Data

	Min.	Typ.	Max.
Overcharge Detection Voltage [V]	4.255	4.28	4.305
Overcharge Detection Delay Time [s]	0.8	1.0	1.2
Overdischarge Detection Voltage / [V]	2.9	3.0	3.1
Overdischarge Detection Delay Time / [ms]	16	20	24
Overcurrent Detection [A]	3.1	4.2	6.0
Overcurrent Detection Delay Time / [ms]	5	9	11
Short Circuit Detection Time / [μs]	280	320	560
Quiescent Current Drain [μA]	/	2	8
Impedance of PCM / [mΩ]	/	47	65

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