

LITHIUM POLY LINE

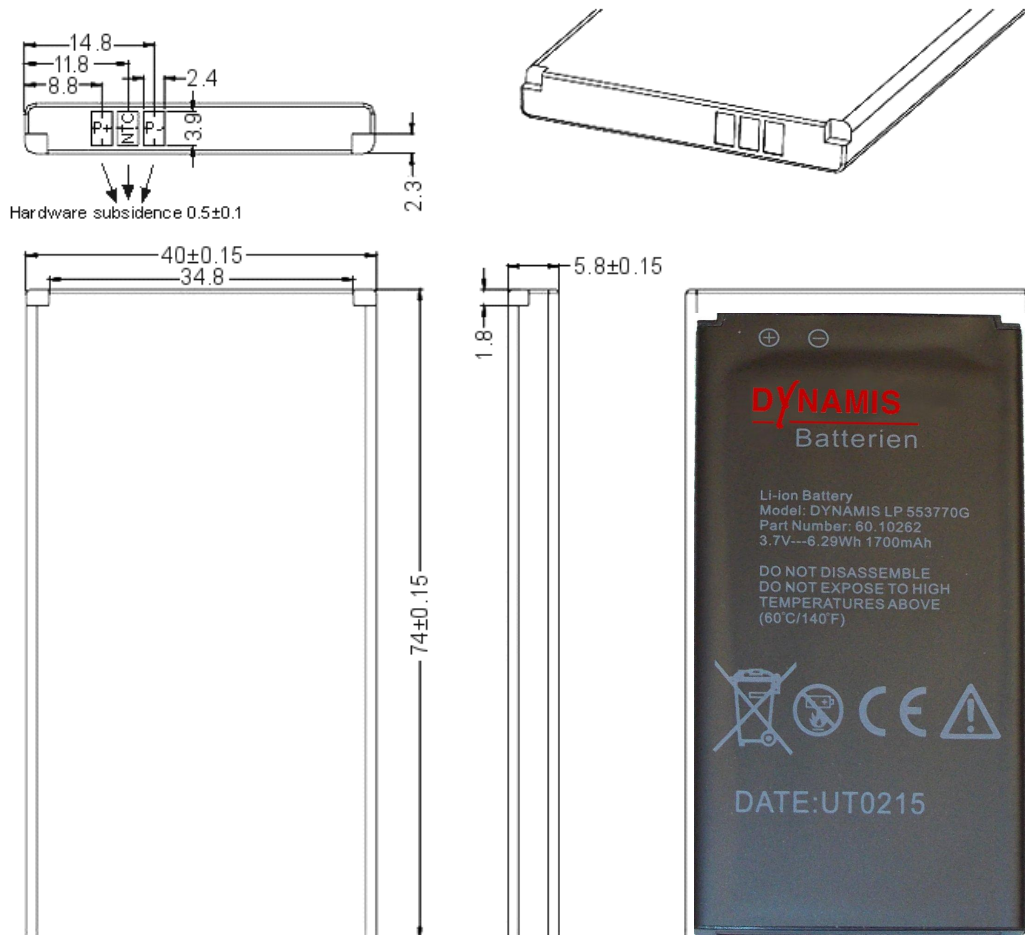
Lithium-Polymer Battery
LP 553770G

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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