

**DYNAMIS**

**LITHIUM-POLY-LINE**

### Lithium Polymer Battery LP553770 1S1P

#### Electrical characteristics

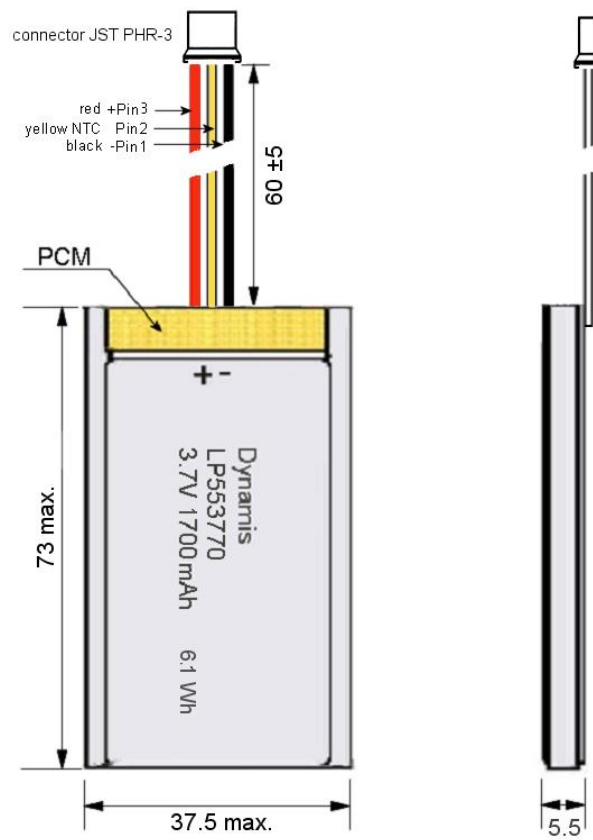
Order no. 60.10273

|                                    |                                                                                                                                                                                                                                                                                              |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rating [ @ 0.2C = 330 mA]          | 1700 mAh (typical)<br><b>1650 mAh (minimum)</b>                                                                                                                                                                                                                                              |
| Nominal Voltage                    | 3.7 V                                                                                                                                                                                                                                                                                        |
| Charging Voltage                   | 4.20 V $\pm$ 0.05 V                                                                                                                                                                                                                                                                          |
| Max. Charge Current                | 1C = 1650 mA                                                                                                                                                                                                                                                                                 |
| Charging Method                    | CCCV Standard (0.2C) = 330 mA CC to 4.20 V,<br>then CV 4.2 V for 2.0 h or 32.5 mA cut-off (max 6.5 h);<br>CCCV Quick (1.0C) = 1650 mA CC to 4.20 V,<br>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)               | $\leq 170 \text{ m}\Omega$                                                                                                                                                                                                                                                                   |
| Capacity Ratings                   | 0.5C Rating = 0.5 h after standard charge<br>Discharge 0.5C - Discharge time $\geq 105 \text{ min}$ to 3.0 V<br><br>Retention = 0.2C discharge after 28 days storage at RT<br>at open circuit (std charge before storage)<br>Discharge 0.2C - Discharge time $\geq 255 \text{ min}$ to 3.0 V |
| Cycle Life                         | Cycles 0.5C/0.5C, capacity retention $\geq 80 \%$ after<br>300 cycles                                                                                                                                                                                                                        |
| Operating Temperatures             | -20 °C to +60 °C (discharge)<br>0 °C to +45 °C (charge)<br>Operation @ 60 $\pm$ 25 % rel. humidity                                                                                                                                                                                           |
| Typical Storage Condition/Delivery | 50 % SOC (charged status)<br>Long Term Storage @ full charge (4.2V) not<br>recommended                                                                                                                                                                                                       |
| Storage Temperatures               | < 6 months: -10 °C to +35 °C                                                                                                                                                                                                                                                                 |
| Energy Content                     | 6.1 Wh                                                                                                                                                                                                                                                                                       |
| NTC                                | 10k $\Omega$ $\pm$ 1% (B=3435)                                                                                                                                                                                                                                                               |

### Dimensions & Tolerances (mm)

|                 |                          |
|-----------------|--------------------------|
| Length max.     | 73                       |
| Width max.      | 37.5                     |
| Thickness max.  | 5.5 (delivery status)    |
|                 | max. 5.8 (after cycling) |
| Wire length     | 60 ±5, AWG26             |
| Weight, approx. | 30 g                     |

### Drawing



The information (subject to change without notice) contained in this document is for reference only and should not be used as a basis for product guaranty or warranty. For applications other than those described here, please consult your nearest DYNAMIS Sales or Marketing Office or Distributors.