



THE DATASHEET OF
1300-0015-XX



cell chemistry: Li-Ion
cell size: 16340
cell type: round cell

Conditions

nominal voltage: 3.6 V

capacity
 nominal: 850 mAh discharge at 0.2C
 minimum: 800 mAh discharge at 0.2C
 760 mAh discharge at 1C
 ta: 20°C; EV(Discharge End Voltage): 2.75V

discharge
 max. continuous discharge current: 1600 mA ta: 0...45°C
important: avoid cell temperature above 60°C
 discharge end voltage: ≥ 2.75 V (recommended)

external charge (at +/- poles)
 charging method: CC - CV (Constant Current - Constant Voltage)
 charge current: 160 mA at standard charge
 max. charge current: 800 mA at fast charge
 charge end voltage: 4.2 V ± 50mV
 charge cut off by time: 6 h at standard charge
 1.5...2.0 h at fast charge
 by current drop: 16 mA end current - cut off

charge via type-C connector (with USB charger)
 supply voltage: 5 V ± 0.25V
 charge current: ≤ 460 mA
 charge time: 2.5 - 3.0 h at 460mA charge

internal resistance: ≤ 150 mΩ at 1kHz, sine wave measurement according to IEC 896-2

energy: 3.06 Wh

protection functions
 overcharge cut off voltage: 4.27 V ± 0.05V
 deep disch.cut off voltage: 2.4 V ± 0.1V
 overload cut off current: 3.0 A ± 1A

LED charge indicator
 (w. micro USB charge) lights red during charge
 lights green end of charge; battery fully charged

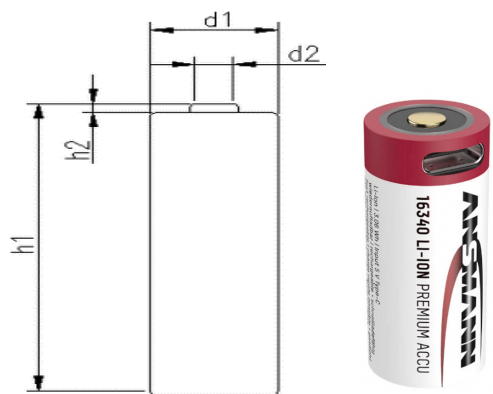
life time expectance
 (C>70% of min. capacity) ≥ 300 cycles at 0.5C charge/discharge rate


self discharge: ≤ 2 %/month at 20°C
 ≤ 5 %/month at 30°C
 ≤ 10 %/month at 40°C

ambient temperature range:
 0...45 °C charge
 - 20...60 °C discharge
 - 20...25 °C storage max. 1year
 - 20...45 °C storage max. 3months

recommended SOC: 30...50 % for long-time stoarge
 (SOC = state of charge)

mechanical specifications
 cell dimensions (incl. sleeve)
 diameter d1: 17.0 - 1 mm
 diameter d2: max. 9.6 mm
 height h1: 36.0 - 1 mm
 height h2: min. 1 mm
 weight: 19 ± 1.5 g



	ANSMANN Specifications for model: Protected 16340 Li-Ion Battery 3.6V 850mAh with Type-C Charge
	data sheet no. / part no.
	s.n. 704507
	author / date TG / 04.01.2024

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