

cell type: Li-Ion
cell size: 18650
built-in cell: LG INR 18650 F1L

Conditions

nominal voltage: 3.6 V

capacity

nominal: 3500 mAh discharge at 0.2C
 minimum: 3250 mAh discharge at 0.2C
 3000 mAh discharge at 1C
 ta: 20°C; EV(Discharge End Voltage): 2.50V

discharge

max. continuous discharge current: 4875 mA ta: 5...45°C
 1625 mA ta: -20...5°C
important: avoid cell temperature above 60°C

discharge end voltage: ≥ 2.5 V (recommended)
important: avoid long time deep discharge

charge

charging method: CC - CV (Constant Current - Constant Voltage)

charge current: 650 mA at standard charge
 max. charge current: 1625 mA at rapid charge

charge end voltage: 4.2 V ± 50mV

charge cut off

by time: 6 h at standard charge
 2.75...3.25 h at rapid charge
 by current drop: 50 mA end current - cut off

internal resistance: ≤ 100 mOhms at 1kHz, sine wave measurement according to IEC 896-2

energy: 12.24 Wh

safety board protection functions

overcharge cut off voltage: 4.3 V ± 0.05V
 deep disch.cut off voltage: 2.5 V ± 0.1V
 overload cut off current: 10 A ± 2.5A

life time expectance

(C>75% 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

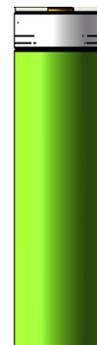
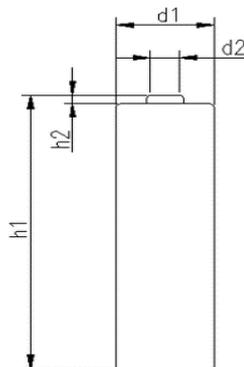
ambient temperature range:

0...45 °C charge
 - 20...50 °C discharge
 - 20...20 °C storage max. 1year
 - 20...45 °C storage max. 3months

preferred charge state for long time storage: 30...50%

mechanical specifications

cell dimensions (incl. sleeve)
 diameter d1: 18.5 ± 0.3 mm
 diameter d2: 6 ± 1 mm
 height h1: 70.0 - 2 mm
 height h2: 1.0 ± 0.3 mm
 weight: 49 ± 3 g



	ANSMANN Specifications for model:	Li - Ion Battery 3.6V 3500mAh with inside Protection Board (PCB)
	data sheet no. / part no.	
	supplier no.	704507
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