

cell type: Li-NiMnCoO₂
cell size: 18650
cell number:
configuration: 1s1p (single cell)

Conditions

nominal voltage: 3.62 V

capacity

rated: 2200 mAh discharge at 0.2C
 minimum: 2050 mAh discharge at 0.2C
 2000 mAh discharge at 1C
 ta: 20°C; EV(Discharge End Voltage): 2.5V

discharge

ta: 0...45°C
 important: avoid cell temperature above 60°C

max. continuous discharge current: 10 A EV: 2.75V

max. peak discharge current: ... A

charge

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

max. initial charge current: 1075 mA at standard charge
 2150 mA at rapid charge

charge end voltage: 4.2 V ± 0.05V

charging cut off by time: 3 h at standard charge
 2.5 h at rapid charge

by current: 43 mA (0.02C cut off current)

safety board

cut off voltage: n/a
 ... V deep discharge protection
 ... V overcharge protection
 cut off current: ... A overload (short circuit) protection

internal resistance: ≤ 35 mΩ at 1kHz, sine wave measurement, according to IEC 896-2

life expectancy: ≥ 700 cycles (>70% of rated capacity)
 0.5C charge / 1C discharge; EV: 2.75V
 ≥ 300 cycles (>80% of rated capacity)
 1C charge / 3C discharge; EV: 2.75V

charge retention: ≥ 90 % after storage at 60°C for 1 month

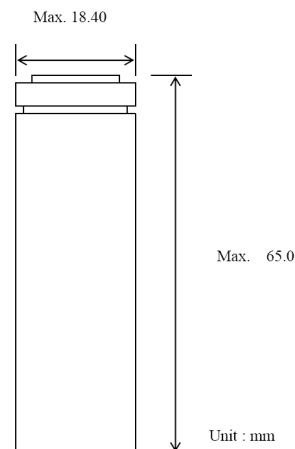
ambient temperature range:


0...45 °C charge
 - 20...60 °C discharge
 - 20...25 °C storage max. 1year
 - 20...45 °C storage max. 3months
 - 20...60 °C storage max. 1 month

ideal SOC for storage: 40...60 %

mechanical specifications

cell dimensions (incl. label)
 diameter: 18.2 ± 0.2 mm
 height: 64.8 ± 0.2 mm
 weight: 44.5 ± 2 g



	ANSMANN Specifications for model:	Samsung SDI ICR 18650 - 22P 3.7V 2200mAh single cell
	data sheet no. / part no.	2347-3004
	Version no.	
	author / date	Gramlich / 16.07.2012