

cell type: Li-Ion
cell size: 26650
built-in cell: BE26-20R000

Conditions

nominal voltage: 3.6 V

capacity

nominal: 5000 mAh discharge at 0.2C
 minimum: 4950 mAh discharge at 0.2C
 4500 mAh discharge at 1C
 ta: 20°C; EV(Discharge End Voltage): 2.5V

discharge

max. continuous discharge current: 20 A 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: 1000 mA at standard charge
 max. charge current: 5000 mA at fast charge
 charge end voltage: 4.2 V ± 0.05 V
 charge cut off by time: 5.5...6 h at standard charge
 1.6...1.8 h at fast charge
 by current drop: 50...100 mA end current - cut off

charge via type-C connector (with USB charger)

supply voltage: 5 V ± 0.25 V
 charge current: 1000 mA ± 200 mA
 charge time: 5.5...6 h at 1A charge
internal resistance: ≤ 100 m Ω at 1kHz, sine wave measurement according to IEC 896-2

energy: 18 Wh

protection functions

overcharge cut off voltage: 4.3 V ± 0.05 V
 deep disch.cut off voltage: 2.5 V ± 0.1 V
 overload cut off current: 28...42 A

LED charge indicator

(w. type-C charge) flashes red during charge
 lights up red end of charge; battery fully charged

life time expectance

(C>80% of initial capacity) ≥ 300 cycles at 0.5C charge / 1C 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
 - 10...25 °C storage max. 6months
 - 10...35 °C storage max. 3months
 - 10...50 °C storage max. 1month

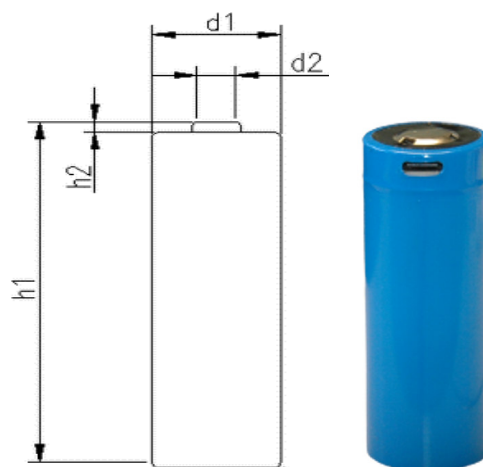
recommended SOC:

(SOC = state of charge) 30...50 % for long-time storage

mechanical specifications

cell dimensions (incl. sleeve)

diameter d1: 26.7 ± 0.2 mm
 diameter d2: 10 ± 1 mm
 height h1: 71.5 ± 0.5 mm
 height h2: 0.8 ± 0.5 mm
 weight: 100 ± 3 g



111

	ANSMANN Specifications for model:	Protected 26650 Li-Ion Battery
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Manufacturer reserves the right to alter or amend the design, model and specification without prior notice