

cell chemistry: Li-Ion
cell size: AAA (10430)
cell type: round cell

Conditions

nominal output voltage: 1.5 V when SOC (state of charge) of battery is >10%
reduced output voltage: 1.05 V when SOC (state of charge) of battery is <10%

capacity

nominal: 500 mAh discharge at 0.2C
 minimum: 400 mAh discharge at 0.2C
 350 mAh discharge at 0.5C
 ta: 20°C; EV(Discharge End Voltage): 0.9V

discharge

max. continuous discharge current: 500 mA
 nom. discharge current: 100 mA
 ta: 0...45°C

charge via type-C connector (with USB charger)

supply voltage: 5 V $\pm 0.25V$
 charge current: 100 mA $\pm 10\%$
 charge time: 2.75 h $\pm 0.5h$

external charge (at battery + / - poles) is not allowed; charge battery via type-C connector only

internal resistance: n/a at 1kHz, sine wave measurement according to IEC 896-2

built-in li-ion battery: 3.7 V / 200mAh
 energy: 0.74 Wh

output protection functions

overload cut-off current: 1 A $\pm 0.3A$

deep discharge protection function

cut-off voltage of int. battery: 2.6 V $\pm 0.3V$

LED charge indicator

visible on the top side of the battery
 flashes red during charge
 lights red at end of charge (battery fully charged)



life time expectance

(C>70% of min. capacity) ≥ 1200 cycles at 0.2C charge/discharge rate

self discharge:

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

ambient temperature range:

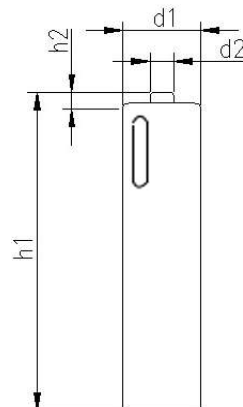
0...45 °C charge
 - 20...60 °C discharge
 - 20...25 °C storage max. 1year
 - 20...45 °C storage max. 3months

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

mechanical specifications

cell dimensions (incl. sleeve)

diameter d1: 10.5 - 0.7 mm
 diameter d2: 3.5 ± 0.5 mm
 height h1: 44.5 - 1 mm
 height h2: 1.3 ± 0.5 mm
 weight: 7 ± 1 g



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ANSMANN Specifications for model:

data sheet no. / part no.

s.n.

author / date

AAA (10430) Li-Ion Battery
1.5V 500mAh w. type-C charge

1311-0028

705163

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