

battery type: Lithium - Iron Disulfide
battery size: IEC: FR6; ANSI: AA; L91; Mignon
chemical system: Li-FeS₂

Conditions

nominal voltage: 1.5 V
open circuit voltage: 1.79...1.89 V new battery
 1.75...1.89 V after 1 year storage at 20°C

capacity rated: 3000 mAh all measurements at 20°C ambient
 discharge at 75ohms load; 24hours/day
 End Voltage (EV): 0.9V

minimum: 2800 mAh discharge at 35mA constant current
 End Voltage (EV): 0.9V

2700 mAh discharge at 1000mA constant current
 End Voltage (EV): 0.8V

typical service output (new batteries)

≥ 900 cycles discharge at 1000mA; EV: 0.9V
 discharge 10s/m 1h/d

≥ 79 h load resistor: 43ohms; EV: 0.9V
 discharge 4h/d

≥ 160 min discharge at 1000mA; EV: 0.9V
 discharge 24h/d

≥ 19 h load resistor: 10ohms; EV: 0.9V
 discharge 24h/d

≥ 11.2 h discharge at 250mA; EV: 0.9V
 discharge 1h/d

internal resistance: ≤ 0.25 Ω at 1kHz, sine wave measurement
 according to IEC 896-2

shelf life: 10 years under proper storage conditions

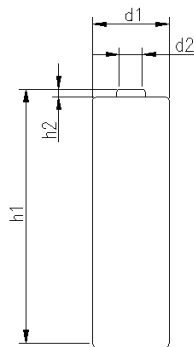
leakage resistance
 over discharge: no leakage 10ohms continuous discharge for 48h; ta: 20°C; RH: 60±15%
 high temperature: no leakage store 20days at ta: 60°C; RH:90±5%

ambient temperature range: - 40...60 °C

recommended storage conditions: -20....40 °C ambient temperature
 45...75 % rel. humidity


mechanical specifications

cell dimensions
 diameter d1: 14.3 - 0.5 mm
 diameter d2: 5.4 - 0.7 mm
 height h1: 50.4 - 0.5 mm
 height h2: 1.7 - 0.5 mm
 weight: 15 ± 2 g



blister card dimensions: 85 x 120 mm
weight (incl. batteries): 43 ± 2 g

approvals: UL 1642 tested

	ANSMANN Specifications for model:	Ansmann Lithium Battery
		AA - size 2pcs blister
	data sheet no. / part no.	5021003
	Version no.	
	author / date	Gramlich / 28.09.2010