

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: 1.75...1.85 V new battery
 1.70...1.85 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: 2850 mAh discharge at 35mA constant current
 End Voltage (EV): 0.8V
 2700 mAh discharge at 1000mA const. current
 End Voltage (EV): 0.8V

typical service output (new batteries)

≥ 960 cycles discharge at 1000mA; EV: 0.9V
 discharge 10s/m 1h/d
 ≥ 84 h load resistor: 43ohms; EV: 0.9V
 discharge 4h/d
 ≥ 170 min discharge at 1000mA; EV: 0.9V
 discharge 24h/d
 ≥ 20.3 h load resistor: 10ohms; EV: 0.9V
 discharge 24h/d
 ≥ 12.0 h discharge at 250mA; EV: 0.9V
 discharge 1h/d

internal resistance: ≤ 350 mΩ at 1kHz, sine wave measurement
 full battery

max. discharge current: 2000 mA continuous
 3000 mA pulse

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

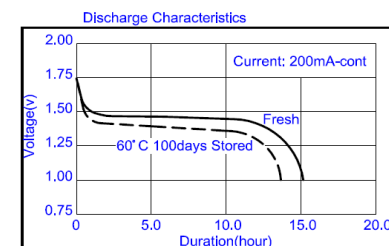
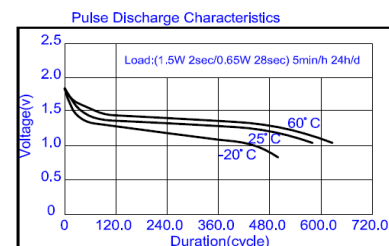
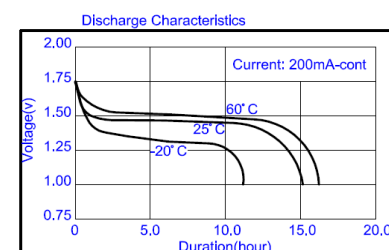
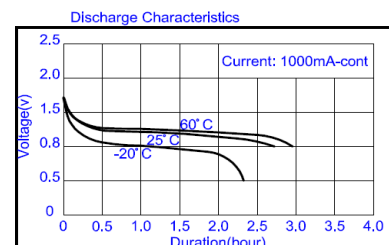
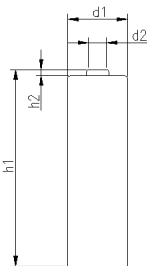
recommended storage conditions: -20....40 °C ambient temperature
 45...75 % rel. humidity

mechanical specifications

washer: yes, with white washer

cell dimensions

diameter d1: 14.3 - 0.4 mm
 diameter d2: 5.2 - 0.5 mm
 height h1: 50.4 - 0.4 mm
 height h2: 1.7 - 0.5 mm
 weight: 15 ± 2 g



ANSMANN Specifications for model:

data sheet no. / part no.

supplier no.

author / date

Ansmann Lithium Battery
"Industrial" AA - size 10pcs box

1502-0005

703331

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