

battery type:
battery size:
chemical system:

Alkaline Manganese (Mercury free)
IEC: LR6; JIS: AM-3; ANSI: AA; MN1500; Mignon
 Zn / KOH-H₂O / MnO₂

Conditions

nominal voltage: 1.5 V
open circuit voltage: 1.57...1.62 V (new battery)
 1.55...1.62 V (after 1 year storage at 20°C)

capacity rated: 2700 mAh (all measurements at 20°C ambient discharge at 10mA load; 24hours/day End Voltage (EV): 0.8V)
 2400 mAh (discharge at 75ohms load; 24hours/day End Voltage (EV): 0.8V)

minimum: 2200 mAh (discharge at 35mA constant current End Voltage (EV): 0.8V)
 700 mAh (discharge at 1000mA constant current End Voltage (EV): 0.8V)

typical service output (new batteries)

≥ 330 cycles (discharge at 1000mA; EV: 0.9V discharge 10s/m 1h/d)
 ≥ 79 h (load resistor: 43ohms; EV: 0.9V discharge 4h/d)
 ≥ 38 min (discharge at 1000mA; EV: 0.9V discharge 24h/d)
 ≥ 17.5 h (load resistor: 10ohms; EV: 0.9V discharge 24h/d)
 ≥ 6.2 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: 7 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:

- 10...50 °C

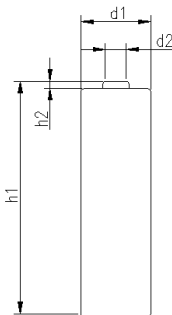
recommended storage conditions:


5...25 °C (ambient temperature)
 45...75 % (rel. humidity)

mechanical specifications

cell dimensions

diameter d1: 14.4 - 0.5 mm
 diameter d2: 5.4 - 0.5 mm
 height h1: 50.4 - 0.5 mm
 height h2: 1.7 - 0.5 mm
 weight: 23 ± 2 g



	ANSMANN Specifications for model:	Ansmann Alkaline battery set 20pcs AA + 20pcs AAA in white box
	data sheet no. / part no.	1520-0003
	supplier no.	701381
	author / date	TG / 13.06.2014

battery type:
battery size:
chemical system:

Alkaline Manganese (Mercury free)
IEC: LR03; JIS: AM-4; ANSI: AAA; MN2400; Micro
 Zn / KOH-H₂O / MnO₂

nominal voltage: 1.5 V
open circuit voltage: 1.57...1.62 V new battery
 1.55...1.62 V after 1 year storage at 20°C

capacity rated: 1200 mAh all measurements at 20°C ambient
 discharge at 10mA load; 24hours/day
 End Voltage (EV): 0.8V
 1070 mAh discharge at 75ohms load; 24hours/day
 End Voltage (EV): 0.8V

minimum: 1050 mAh discharge at 20mA constant current
 End Voltage (EV): 0.8V
 300 mAh discharge at 500mA constant current
 End Voltage (EV): 0.8V

typical service output (new batteries)

- ≥ 560 cycles load resistor 3.6ohms; EV: 0.9V
discharge 15s/m 24h/d
- ≥ 180 min load resistor: 5.1ohms; EV: 0.9V
discharge 4min/h 8h/d
- ≥ 414 min load resistor: 10ohms; EV: 0.9V
discharge 1h/d
- ≥ 16 h load resistor: 20ohms; EV: 0.9V
discharge 24h/d
- ≥ 37 h load resistor: 43ohms; EV: 0.9V
discharge 4h/d

internal resistance: ≤ 0.3 Ω at 1kHz, sine wave measurement
 according to IEC 896-2

shelf life: 7 years under proper storage conditions

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

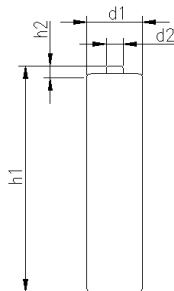
ambient temperature range: - 10...50 °C


recommended storage conditions: 5...25 °C ambient temperature
 45...75 % rel. humidity

mechanical specifications

cell dimensions
 diameter d1: 10.4 - 0.5 mm
 diameter d2: 3.6 - 0.4 mm
 height h1: 44.4 - 0.6 mm
 height h2: 1.2 - 0.35 mm
 weight: 11.5 ± 1.5 g

40pcs. box
 dimensions: 149 x 74 x 54 mm
 weight (incl. batteries): 710 ± 25 g



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