

battery type: Alkaline Manganese (Mercury free)
battery size: IEC: LR6; JIS: AM-3; ANSI: AA; MN1500; Mignon
chemical system: 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: 2900 mAh all measurements at 20 °C ambient
 discharge at 10mA load; 24hours/day
 End Voltage (EV): 0.8V
 2700 mAh discharge at 75ohms load; 24hours/day
 End Voltage (EV): 0.8V
 minimum: 2550 mAh discharge at 35mA constant current
 End Voltage (EV): 0.8V
 800 mAh discharge at 1000mA constant current
 End Voltage (EV): 0.8V

typical service output (new batteries)

≥470 cycles discharge at 1000mA; EV: 0.9V
 discharge 10s/m 1h/d
 ≥ 88 h discharge at 43Ω resistive load; EV: 0.9V
 discharge 4h/d
 ≥ 46 min discharge at 1000mA constant current; EV: 0.9V
 discharge 24h/d
 ≥ 19 h discharge at 10Ω resistive load; EV: 0.9V
 discharge 24h/d
 ≥ 7.3 h discharge at 250mA; EV: 0.9V
 discharge 1h/d

internal resistance: ≤ 0.2 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

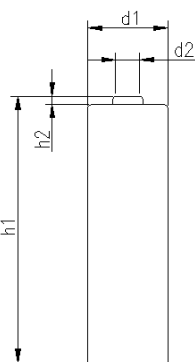
mechanical specifications

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

shrink package

dimensions: 29 x 51 mm
 weight: 47 g



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	ANSMANN Specifications for model:	Ansmann XPower Alkaline battery
	data sheet no. / part no.	AA - size 2pcs shrink package
	Version no.	5015731
	author / date	Gramlich / 21.07.2010

Manufacturer reserves the right to alter or amend the design, model and specification without prior notice