

**battery type:** Alkaline Manganese (Mercury free)  
**battery size:** IEC: LR20; JIS: AM-1; ANSI: D; MN1300; Mono  
**chemical system:** Zn / KOH-H<sub>2</sub>O / MnO<sub>2</sub>

**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: 18000 mAh (all measurements at 20°C ambient discharge at 25mA load; 24h/day End Voltage (EV): 0.8V)  
 15000 mAh (discharge at 10ohms load; 24h/day End Voltage (EV): 0.9V)  
 minimum: 14000 mAh (discharge at 100mA constant current End Voltage (EV): 0.8V)  
 5500 mAh (discharge at 1000mA constant current End Voltage (EV): 0.8V)

**typical service output (new batteries)**  
 ≥ 20 h (discharge at 2.2Ω resistive load; EV: 0.9V discharge 4min/h 8h/d)  
 ≥ 21 h (discharge at 2.2Ω resistive load; EV: 0.8V discharge 1h/d)  
 ≥ 14 h (discharge at 600mA constant current discharge 2h/d)  
 ≥ 17.5 h (discharge at 2.2Ω resistive load; EV: 0.9V discharge 24h/d)  
 ≥ 122 h (discharge at 10Ω resistive load; EV: 0.9V discharge 4h/d)

**internal resistance:** ≤ 0.15 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 (2.2ohms continuous discharge for 48h; ta: 20 °C; RH: 60±15%)  
 high temperature: no leakage (store 20days at ta: 60 °C; RH:90±5%)

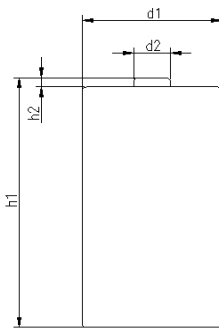
**ambient temperature range:** - 10...50 °C

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


**mechanical specifications**

cell dimensions  
 diameter d1: 34.0 - 1.0 mm  
 diameter d2: 9.0 - 1.0 mm  
 height h1: 61.0 - 1.4 mm  
 height h2: 3.0 - 0.5 mm  
 weight: 140 ± 5 g

blister card dimensions: 120 x 85 mm  
 weight (incl. batteries): 280 ± 15 g



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	<b>ANSMANN Specifications for model:</b> <b>Ansmann XPower Alkaline battery</b> <b>D - size 2pcs blister</b>
	data sheet no. / part no. 5015633
	Version no.
	author / date Gramlich / 19.07.2010

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