

**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>

**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

**Conditions**

**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:** 13000 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

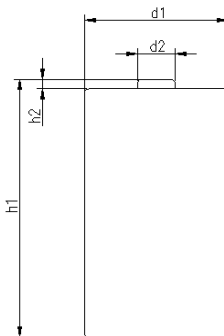
**leakage resistance**  
 over discharge: no leakage 2.2ohms continuous discharge for 48h; ta: 20°C; RH: 60±15%  
 high temperature: no leakage store 20days at ta: 60°C; RH:90±5%


**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



	<b>ANSMANN Specifications for model:</b>	<b>Ansmann XPower Alkaline battery D - size bulk package</b>
	data sheet no. / part no.	5015701
	supplier no.	701381
	author / date	TG / 04.01.2018