

**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

**capacity rated:** 16000 mAh all measurements at 20°C ambient discharge at 25mA load; 24h/day End Voltage (EV): 0.8V  
 13500 mAh discharge at 10ohms load; 24h/day End Voltage (EV): 0.9V  
**minimum:** 11500 mAh discharge at 100mA constant current End Voltage (EV): 0.8V  
 4500 mAh discharge at 1000mA constant current End Voltage (EV): 0.8V

**typical service output (new batteries)**  
 ≥ 18.5 h load resistor 2.2ohms; EV: 0.9V discharge 4min/h 8h/d  
 ≥ 35 h load resistor: 3.9ohms; EV: 0.9V discharge 1h/d  
 ≥ 20.5 h load resistor: 2.2ohms; EV: 0.8V discharge 1h/d  
 ≥ 16.5 h load resistor: 2.2ohms; EV: 0.9V discharge 24h/d  
 ≥ 112 h load resistor: 10ohms; EV: 0.9V discharge 4h/d

**internal resistance:** ≤ 0.15 Ω at 1kHz, sine wave measurement according to IEC 896-2

**shelf life:** 5 years under proper storage conditions

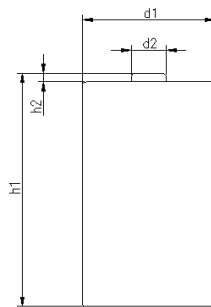
**leakage resistance**  
 over discharge: no leakage 2.2ohms continuous discharge for 48h; ta: 20°C; RH: 60±15%  
 high temperature: no leakage store 20days at ta: 60°C; RH:90±5%

**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: 138 ± 7 g



**blister package:**  
 dimensions: 120 x 85 mm  
 weight (incl. batteries): 284 ± 15 g

	<b>ANSMANN Specifications for model:</b>	<b>Ansmann RED Alkaline battery</b>
		<b>D - size 2pcs blister</b>
	data sheet no. / part no.	1514-0000
	author / date	Gramlich / 22.07.2010