

battery type: Alkaline Manganese (Mercury free)
battery size: IEC: LR20; JIS: AM-1; ANSI: D; MN1300; Mono
chemical system: 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: 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

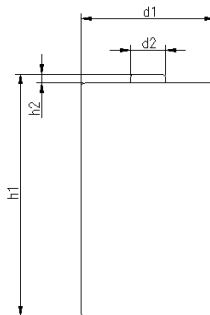
leakage resistance
 over discharge: no leakage 2.2ohms continuous discharge for 48h; ta: 20 °C; RH: 60±15%
 high temperature: no leakage store 20days at ta: 60 °C; RH:90±5%

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



shrink package:
 dimensions: 125 x 61 mm
 weight (incl. batteries): 565 ± 25 g



	ANSMANN Specifications for model:	Ansmann RED Alkaline battery
		D - size 4pcs shrink
	data sheet no. / part no.	5015581
	author / date	Gramlich / 22.07.2010