

**battery type:** Alkaline Manganese (Mercury free)  
**battery size:** IEC: LR20; JIS: AM-1; ANSI: 13A; MN1300; Mono  
**chemical system:** Zn / KOH-H<sub>2</sub>O / MnO<sub>2</sub>

**nominal voltage:** 1.5 V  
**open circuit voltage:** 1.58...1.68 V (new battery)  
 1.55...1.68 V (after 1 year storage at 20°C)

**Conditions**

**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 2.2ohms load; 1h/day End Voltage (EV): 0.8V)  
**minimum:** 17.7 h (for IQC measurement) (at 2.2ohms constant resistance discharge 24h/d; End Voltage (EV): 0.9V)

**typical service output**

Load	2.2Ω	600mA	1.5Ω	2.2Ω	10Ω	2.2Ω	
Test mode	24h/d	2h/d	4m/15m, 8h/d	1h/d	4h/d	4m/15m, 8h/d	
End voltage	0.9V	0.9V	0.9V	0.8V	0.9V	0.9V	
Unit	h	h	h	h	h	h	
Applications	Reference	Portable stereo	Portable lighting	Toy	Radio	Portable lighting	
Initial	MAD	17.7	15.5	13.0	23.0	124	21
	Normal	19.5	17.0	14.7	25.7	132	23
Stored 1 year	MAD	17.0	14.0	12.0	20.5	122	20.5
	Normal	18.5	16.0	14.0	24.0	128	21.5

m: minute h: hour d: day

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

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

**leakage resistance**

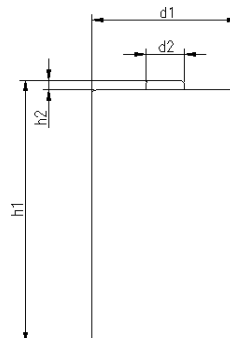
over discharge: no leakage (10ohms continuous discharge for 48h; ta: 20°C; RH: 60±15%)  
 high temperature: no leakage (store 20days at ta: 60°C; RH:90±5%)


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

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

**mechanical specifications**

cell dimensions  
 diameter d1: 34.2 - 1.9 mm  
 diameter d2: max. 9.5 mm  
 height h1: 61.5 - 2.0 mm  
 height h2: min. 1.5 mm  
 weight: 142 ± 5 g



 SINDS 2005	<b>Specifications for model:</b>	<b>Super Quality Alkaline Battery D - size</b>
	data sheet no. / part no.	
	s.n.	701381
	author / date	TG / 19.04.2021