

**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:** 34 h at 3.9ohms constant resistance discharge  
 (for IQC measurement) 24h/d; End Voltage (EV): 0.9V

**typical service output**

Discharge Condition			IEC60086-2: 2011 Standard:	Discharge Time			
Load	Test mode	End Voltage		Initial		After 1 year at 20±2°C	
				MAD	Normal	MAD	Normal
2.2Ω	1h/d	0.8V	16h	23.5h	24.5h	22.5h	23.5h
600mA	2h/d	0.9V	11h	15h	16h	14h	15h
2.2Ω	4m/15m-8h/d	0.9V	750m	1330m	1400m	1250m	1300m
3.9Ω reference	24h/d	0.9V	/	37.0h	39.0h	35.0h	37.0h
Remarks	<ul style="list-style-type: none"> <li>● MAD- Minimum Average Discharge m- minute h- hour d-day</li> <li>● Actual performance for each lot perhaps will be slightly different with normal performance.</li> </ul>						

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

**shelf life:** 7 years under proper storage conditions

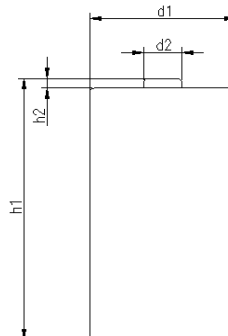
**leakage resistance**  
 over discharge: no leakage 10ohms continuous discharge for 48h; ta: 20°C; RH: 60±15%  
 high temperature: no leakage store 20days at ta: 60°C; RH:90±5%

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

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

**mechanical specifications**

cell dimensions  
 diameter d1: 33.8 - 1.0 mm  
 diameter d2: 9.5 - 1.0 mm  
 height h1: 61.5 - 1.5 mm  
 height h2: 1.5 + 1.0 mm  
 weight: 142 ± 5 g



	<b>ANSMANN Specifications for model:</b>	<b>Super Quality Alkaline Battery D - size</b>
	data sheet no. / part no.	
	s.n.	704413
	author / date	TG / 09.10.2019