

**battery type:** Alkaline Manganese Dioxide (mercury free)  
**battery size:** IEC: LR1; JIS: AM-5; ANSI: N; Lady  
**chemical system:** Zn / KOH-H<sub>2</sub>O / MnO<sub>2</sub>

**Conditions**

**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)

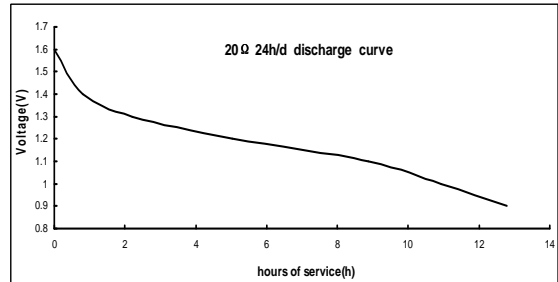
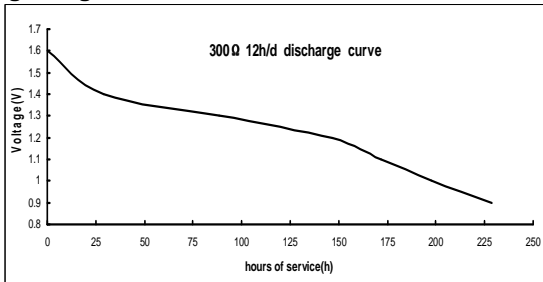
all measurements at 22 ± 2°C ambient

**capacity**  
 rated: 940 mAh (discharge under 300Ω load; 12hours/day; End Voltage (E.V.): 0.9V)  
 minimum: 750 mAh (at 5mA constant current discharge; E.V.: 0.8V)  
 550 mAh (at 60mA constant current discharge; E.V.: 0.8V)

**typical service output**

new battery:	norm.	12.5 h	at 20Ω load; discharge 24h/d; E.V.: 0.9V
	min.	10.5 h	
after 1 year storage:	norm.	10.0 h	at 20Ω load; discharge 24h/d; E.V.: 0.9V
	min.	8.5 h	
new battery:	norm.	140 min	at 5.1Ω load; discharge 5min/d; E.V.: 0.9V
	min.	110 min	
after 1 year storage:	norm.	110 min	at 5.1Ω load; discharge 5min/d; E.V.: 0.9V
	min.	80 min	
new battery:	norm.	215 h	at 300Ω load; discharge 12h/d; E.V.: 0.9V
	min.	208 h	
after 1 year storage:	norm.	200 h	at 300Ω load; discharge 12h/d; E.V.: 0.9V
	min.	185 h	

**Discharge diagrams:**



**internal resistance:** ≤ 0.3 Ω (at 1kHz, sine wave measurement according to IEC 896-2)

**shelf life:** 5 years (under proper storage conditions (ta: ≤ 22°C; RH: 60 ± 15%))

**leakage resistance**

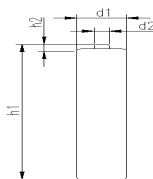
over discharge: no leakage (20Ω continuous discharge for 48h; ta: 20°C; RH: 60±15%)  
 high temperature: no leakage (store 20days at ta: 60°C; RH:90±5%)

**operating temperature range:**

- 20...60 °C

**mechanical specifications:**

cell dimensions  
 diameter d1: 12.0 - 1.1 mm  
 diameter d2: 3.7 - 0.4 mm  
 height h1: 30.2 - 1.1 mm  
 height h2: 1.3 - 0.4 mm  
 weight: 9 ± 1 g



blister card  
 dimensions: 56 x 72mm  
 weight: 11.5g (incl. battery)

	<b>ANSMANN Specifications for model:</b>	<b>LR1 (N) Alkaline Battery</b>
	data sheet no. / part no.	5015453
	supplier no.	701381
	author / date	TG / 05.06.2013