

**battery type:**  
**battery size:**  
**chemical system:**

**Alkaline Manganese Dioxide (mercury free)**  
 LR54; LR1130; AG10; 189: 389  
 Zn / KOH-H<sub>2</sub>O / MnO<sub>2</sub>

**nominal voltage:** 1.5 V  
**open circuit voltage:** 1.57...1.63 V  
 1.53...1.63 V

**Conditions**  
 new battery  
 after 1 year storage at 20°C

**capacity**  
 rated: 65 mAh  
 minimum: 60 mAh

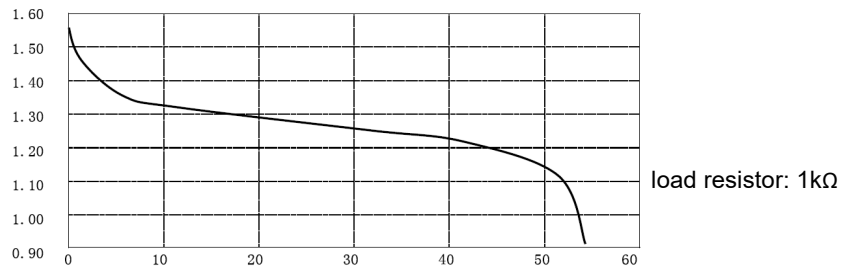
all measurements at 22 ± 2°C ambient  
 discharge at 15kΩ load; 24hours/day  
 End Voltage (EV): 0.9V  
 discharge at 15kΩ load; 24hours/day  
 End Voltage (EV): 0.9V

**Service Life**

**nominal:** 750 h at 15kΩ load new battery (tested within 60 days after production)  
 EV: 0.9V  
**MAD:** 720 h at 15kΩ load new battery (tested within 60 days after production)  
 (minimum average duration) 540 h EV: 1.2V  
 650 h at 15kΩ load after 12 months storage at room temperature  
 EV: 0.9V  
 495 h EV: 1.2V  
 ≥ 90 h at 2kΩ load for IQC measurement  
 EV: 0.9V

Discharge diagram:

**Typical Discharge Characteristics at 20°C**



**Discharge Time(hours)**

**shelf life:** 3 years under proper storage conditions (ta: ≤ 22°C; RH: 60 ± 15%)  
 ≥90 % remaining capacity after 12 months storage

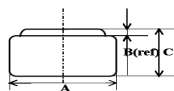
**operating temperature:** -20...60 °C

**storage temperature:** 5...25 °C (recommended)

**mechanical specifications:**

**cell dimensions:** 11.6 x 3.1mm nominal

Dimensions	Unit:mm
A	11.40-11.60
B	0.40 (ref)
C	2.90-3.10



**nominal weight:** 1.1 g

**main applications:** watch, photo, electronic



**ANSMANN Specifications for model:**

**Ansmann LR54 (AG10,LR1130)  
 Alkaline Button Cell "Hg free"**

data sheet no. / part no.

supplier no.

703385

author / date

TG / 25.07.2018