

battery type:
battery size:
chemical system:

Alkaline Manganese Dioxide (mercury free)
 LR54; LR1130; AG10; 189: 389
 Zn / KOH-H₂O / MnO₂

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

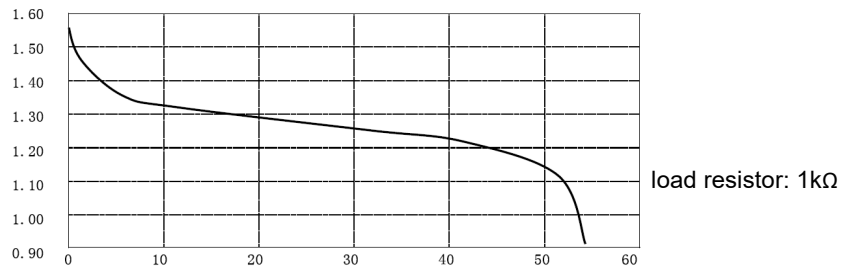
all measurements at 22 ± 2°C ambient
 discharge at 15kΩ load; 24hours/day
 End Voltage (EV): 0.9V
 discharge at 15kΩ load; 24hours/day
 End Voltage (EV): 0.9V

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

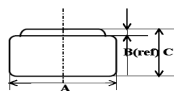
operating temperature: -20...60 °C

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.

author / date

703385

TG / 25.07.2018