

battery type: Alkaline Manganese Dioxide (mercury free)
battery size: A23; 8LR23; MN21; 8LR932; LR1028
chemical system: Zn / KOH-H₂O / MnO₂

nominal voltage: 12 V
open circuit voltage: 12.3...12.9 V new battery
 12.2...12.9 V after 1 year storage at 20°C

Conditions

all measurements at 22 ± 2°C ambient

capacity
 rated: 50 mAh discharge under 10kΩ load; 24hours/day
 End Voltage (EV): 6.0V
 minimum: 47 mAh discharge under 10kΩ load; 24hours/day
 End Voltage (EV): 6.0V

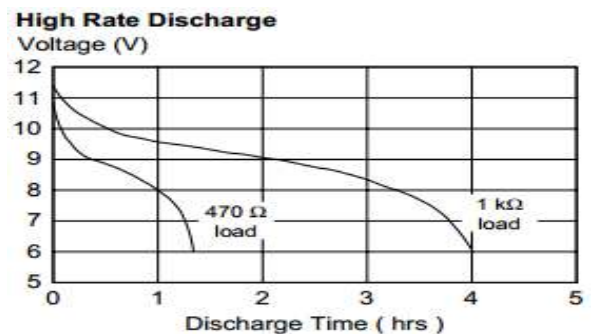
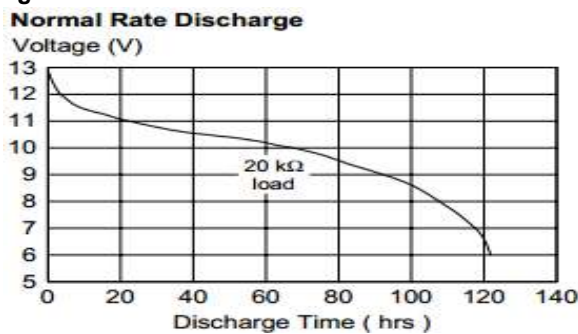
Standard discharge time

nominal: 55 h at 10kΩ load new battery
 EV: 6.0V
 MAD: 50 h at 10kΩ load after 12 months storage at 20°C
 (minimum average duration) EV: 6.0V
 52 h at 10kΩ load for IQC measurement
 EV: 6.0V (tested within 30 days after delivery)

Discharge currents

standard: 0.05 mA
 max. recommended current under continuous discharge: 0.5 mA
 max. recommended current under pulse discharge: 15 mA

Discharge diagrams:



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

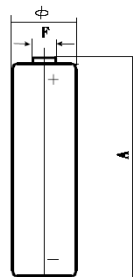
operating temperature: - 20...60 °C

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

mechanical specifications:

Dimensions(mm):

/	min	max
Φ	9.90	10.60
A	27.70	28.50
F	5.2	5.8



nominal weight: 7.9 g



ANSMANN Specifications for model:

data sheet no. / part no.

s.n.

author / date

Alkaline Battery "Hg free"
A23 (23A, LR1028)

703385

TG / 15.01.2019