battery type: Alkaline Manganese Dioxide (mercury free) battery size:

A23; 8LR23; MN21; 8LR932; LR1028

Zn / KOH-H₂O / MnO₂ chemical system:

Conditions

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

all measurements at 22 ± 2°C ambient

capacity

discharge under 10kΩ load; 24hours/day rated: 50 mAh

End Voltage (EV): 6.0V

discharge under 10kΩ load; 24hours/day minimum: 47 mAh

End Voltage (EV): 6.0V

Standard discharge time

at $10k\Omega$ load nominal: 55 h new battery

EV: 6.0V

MAD:

50 h at $10k\Omega$ load (minimum avarage after 12 months storage at 20°C

EV: 6.0V duration)

> 52 h at $10k\Omega$ 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

8

7

6 5

under pulse discharge: 15 mA

Discharge diagrams:

Normal Rate Discharge Voltage (V) 13 12 11 10 20 kΩ 9

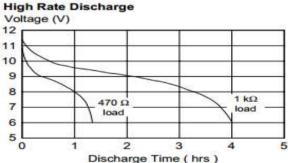
60

7.9 g

80

Discharge Time (hrs)





shelf life: under proper storage conditions (ta: ≤ 22°C; RH: 60 ± 15%) 3 years

100

≥90 % remaining capacity after 12 months storage

- 20...60 °C operating temperature:

20

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

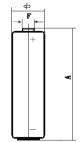
40

mechanical specifications:

Dimensions(mm):

nominal weight:

/	min	max
Ф	9.90	10.60
Α	27.70	28.50
F	5.2	5.8







blister card

dimensions: weight:

86 x 11 x 123mm 17.6g (incl. batteries)



ANSMANN Specifications for model:	A23 (23A, LR1028) Alkaline Battery "Hg free" 2pcs blister package	
data sheet no. / part no.	1510-0024	
author / date	TG / 10.01.2018	