

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)

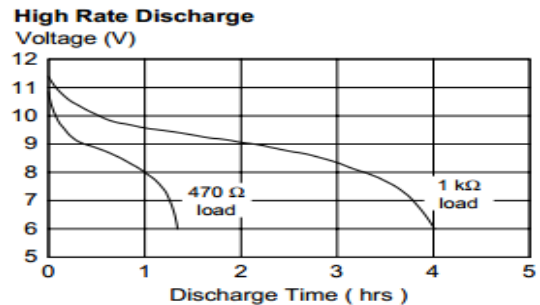
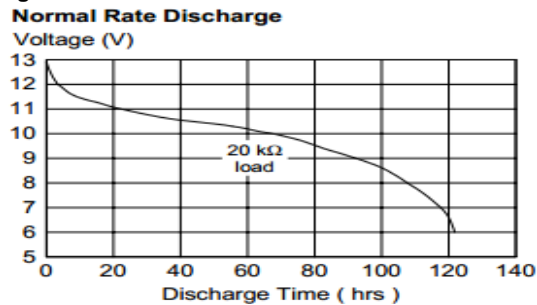
Standard discharge time

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



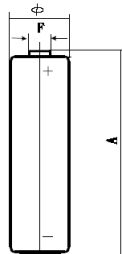
shelf life: 3 years (under proper storage conditions (ta ≤ 22°C; RH: 60 ± 15%))
 ≥90 % remaining capacity after 12 months storage

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

blister card dimensions: 56 x 71.5mm
 weight: 9.7g (incl. battery)

	ANSMANN Specifications for model:	A23 (23A, LR1028) Alkaline Battery "Hg free" blister package
	data sheet no. / part no.	5015182
	supplier no.	703385
	author / date	TG / 08.03.2016