

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

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
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

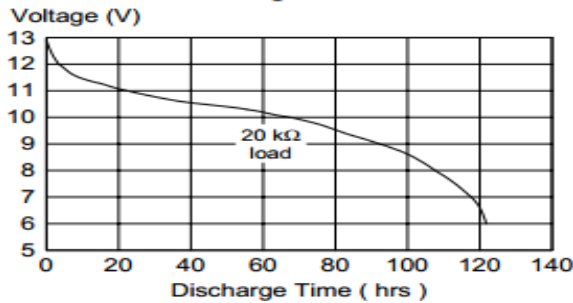
nominal: 55 h (at 10kΩ load; new battery; EV: 6.0V)
MAD: 50 h (at 10kΩ load; after 12 months storage at 20°C; EV: 6.0V)
 (minimum average duration)
 52 h (at 10kΩ load; for IQC measurement; EV: 6.0V; (tested within 30 days after delivery))

Discharge currents

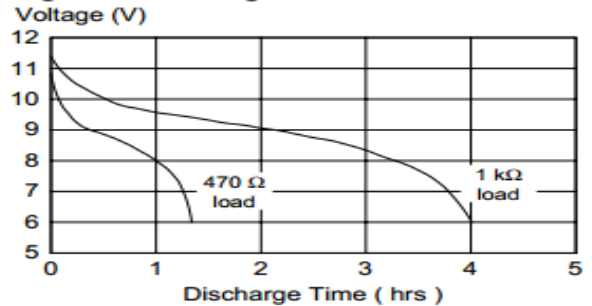
standard: 0.05 mA
max. recommended current under continuous discharge: 0.5 mA
max. recommended current under pulse discharge: 15 mA

Discharge diagrams:

Normal Rate Discharge



High Rate Discharge



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

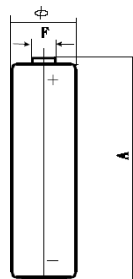
operating temperature: - 20...60 °C

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

 SINDS 2005	Specifications for model:	Alkaline Battery "Hg free" A23 (23A, LR1028)
	data sheet no. / part no.	
	s.n.	703385
	author / date	TG / 15.01.2019