

battery type: Alkaline Manganese (Mercury free)
battery size: IEC: LR20; JIS: AM-1; ANSI: D; MN1300; Mono
chemical system: Zn / KOH-H₂O / MnO₂

Conditions

nominal voltage: 1.5 V
open circuit voltage: 1.57...1.62 V new battery
 1.55...1.62 V after 1 year storage at 20 °C

capacity
 rated: 18000 mAh all measurements at 20 °C ambient
 discharge at 25mA load; 24h/day
 End Voltage (EV): 0.8V
 15000 mAh discharge at 10ohms load; 24h/day
 End Voltage (EV): 0.9V
 minimum: 14000 mAh discharge at 100mA constant current
 End Voltage (EV): 0.8V
 5500 mAh discharge at 1000mA constant current
 End Voltage (EV): 0.8V

typical service output (new batteries)

≥ 20 h discharge at 2.2Ω resistive load; EV: 0.9V
 discharge 4min/h 8h/d
 ≥ 21 h discharge at 2.2Ω resistive load; EV: 0.8V
 discharge 1h/d
 ≥ 14 h discharge at 600mA constant current
 discharge 2h/d
 ≥ 17.5 h discharge at 2.2Ω resistive load; EV: 0.9V
 discharge 24h/d
 ≥ 122 h discharge at 10Ω resistive load; EV: 0.9V
 discharge 4h/d

internal resistance: ≤ 0.15 Ω at 1kHz, sine wave measurement
 according to IEC 896-2

shelf life: 7 years under proper storage conditions

leakage resistance

over discharge: no leakage 2.2ohms continuous discharge for 48h; ta: 20 °C; RH: 60±15%
 high temperature: no leakage store 20days at ta: 60 °C; RH:90±5%

ambient temperature range: - 10...50 °C

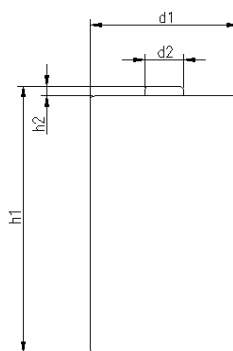
recommended storage conditions: 5...25 °C ambient temperature
 45...75 % rel. humidity

mechanical specifications

cell dimensions

diameter d1: 34.0 - 1.0 mm
 diameter d2: 9.0 - 1.0 mm
 height h1: 61.0 - 1.4 mm
 height h2: 3.0 - 0.5 mm
 weight: 140 ± 5 g

blister card dimensions: 120 x 85 mm
 weight (incl. batteries): 280 ± 15 g



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ANSMANN Specifications for model:

data sheet no. / part no.

Version no.

author / date

Ansmann XPower Alkaline battery
D - size 2pcs blister

5015633

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