

battery type:
battery size:
chemical system:

Alkaline Manganese Dioxide (mercury free)
 IEC: LR1; JIS: AM-5; ANSI: N; Lady
 Zn / KOH-H₂O / MnO₂

nominal voltage: 1.5 V
open circuit voltage: 1.56... 1.63 V
 1.54... 1.63 V

Conditions

new battery
 after 1 year storage at 20°C

all measurements at 22 ± 2°C ambient

capacity

rated: 940 mAh

discharge under 300Ω load; 12hours/day
 End Voltage (E.V.): 0.9V

minimum: 750 mAh

at 5mA constant current discharge; E.V.: 0.8V (for QC measurement)

550 mAh

at 60mA constant current discharge; E.V.: 0.8V

typical service output

new battery: norm. 12.5 h
 min. 10.5 h

at 20Ω load; discharge 24h/d; E.V.: 0.9V

after 1 year storage: norm. 10.0 h
 min. 8.5 h

at 20Ω load; discharge 24h/d; E.V.: 0.9V

new battery: norm. 140 min
 min. 110 min

at 5.1Ω load; discharge 5min/d; E.V.: 0.9V

after 1 year storage: norm. 110 min
 min. 80 min

at 5.1Ω load; discharge 5min/d; E.V.: 0.9V

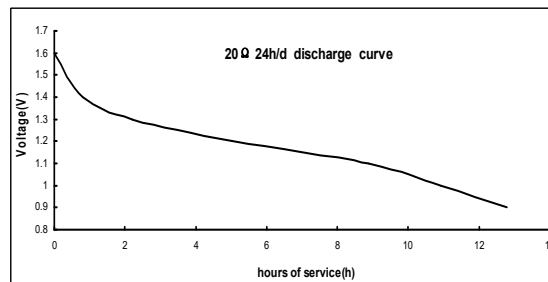
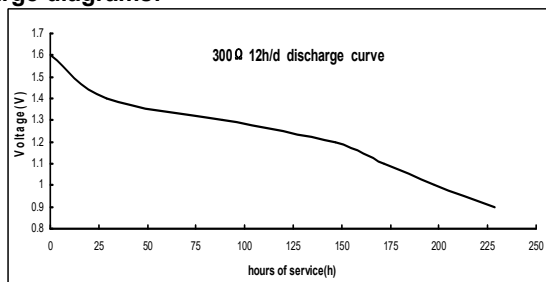
new battery: norm. 215 h
 min. 208 h

at 300Ω load; discharge 12h/d; E.V.: 0.9V

after 1 year storage: norm. 200 h
 min. 185 h

at 300Ω load; discharge 12h/d; E.V.: 0.9V

Discharge diagrams:



internal resistance: ≤ 0.3 Ω

at 1kHz, sine wave measurement
 according to IEC 896-2

shelf life: 5 years

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

leakage resistance

over discharge: no leakage

20Ω continuous discharge for 48h; ta: 20°C; RH: 60±15%

high temperature: no leakage

store 20days at ta: 60°C; RH:90±5%

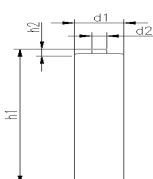
operating temperature

range: - 20...60 °C

mechanical specifications:

cell dimensions

diameter d1: 12.0 - 1.1 mm
 diameter d2: 3.7 - 0.4 mm
 height h1: 30.2 - 1.1 mm
 height h2: 1.3 - 0.4 mm
 weight: 9 ± 1 g



blister card

dimensions:
 56 x 71.5mm

weight:
 10.8g (incl. battery)

43



ANSMANN Specifications for model:

data sheet no. / part no.

LR1 (N, AM-5) Alkaline Battery
"Hg free" blister package

supplier no.

5015453

author / date

701381

TG / 27.06.2018

Manufacturer reserves the right to alter or amend the design, model and specification without prior notice