

battery type:
battery size:
chemical system:

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



<https://www.mega-piles.com/>

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

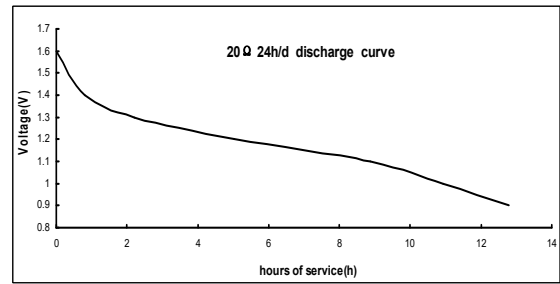
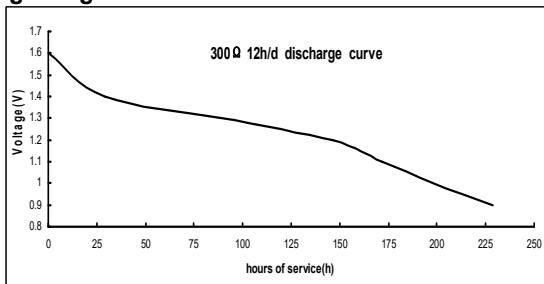
capacity
 rated: 940 mAh
 minimum: 750 mAh
 550 mAh

discharge under 300Ω load; 12hours/day
 End Voltage (E.V.): 0.9V
 at 5mA constant current discharge; E.V.: 0.8V (for QC measurement)
 at 60mA constant current discharge; E.V.: 0.8V

typical service output

| | | | |
|-----------------------|-------|---------|--|
| new battery: | norm. | 12.5 h | at 20Ω load; discharge 24h/d; E.V.: 0.9V |
| | min. | 10.5 h | |
| after 1 year storage: | norm. | 10.0 h | at 20Ω load; discharge 24h/d; E.V.: 0.9V |
| | min. | 8.5 h | |
| new battery: | norm. | 140 min | at 5.1Ω load; discharge 5min/d; E.V.: 0.9V |
| | min. | 110 min | |
| after 1 year storage: | norm. | 110 min | at 5.1Ω load; discharge 5min/d; E.V.: 0.9V |
| | min. | 80 min | |
| new battery: | norm. | 215 h | at 300Ω load; discharge 12h/d; E.V.: 0.9V |
| | min. | 208 h | |
| after 1 year storage: | norm. | 200 h | at 300Ω load; discharge 12h/d; E.V.: 0.9V |
| | min. | 185 h | |

Discharge diagrams:



internal resistance: ≤ 0.3 Ω at 1kHz, sine wave measurement according to IEC 896-2

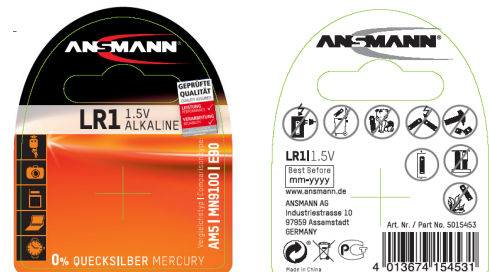
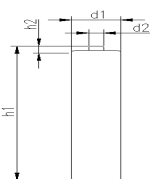
shelf life: 5 years under proper storage conditions (ta: ≤ 22°C; RH: 60 ± 15%)

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)

| | | |
|--|--|---|
| | ANSMANN Specifications for model: | LR1 (N, AM-5) Alkaline Battery "Hg free" blister package |
| | data sheet no. / part no. | 5015453 |
| | supplier no. | 701381 |
| | author / date | TG / 27.06.2018 |