

battery type: Zinc - Carbon (Mercury free)
battery size: IEC: 3R12; JIS: 3R12; MN1203; 1289
chemical system: Zn / MnO₂

Conditions

nominal voltage: 4.5 V
open circuit voltage: 4.7...5.1 V (new battery)
 4.5...5.1 V (after 1 year storage at 20°C)

capacity all measurements at 20°C ambient

rated: 2000 mAh (discharge at 220ohms load; 4hours/day; End Voltage (EV): 2.7V)
 2100 mAh (discharge at 10mA load; 24hours/day; End Voltage (EV): 2.7V)

minimum: 1850 mAh (discharge at 50mA constant current; End Voltage (EV): 2.7V)
 1000 mAh (discharge at 200mA constant current; End Voltage (EV): 2.7V)

typical service output (new battery)

115 h (load resistor: 220ohms; EV: 2.7V; discharge 4h/d)
 8.3 h (load resistor: 20ohms; EV: 2.7V; discharge 1h/d)
 250 min (load resistor: 11.7ohms; EV: 2.7V; discharge 24h/d)

internal resistance: ≤ 3 Ω (at 1kHz, sine wave measurement according to IEC 896-2)

shelf life: ≥ 3 years (under proper storage conditions)

leakage resistance

over discharge: no leakage (20ohms continuous discharge for 48h; ta: 20°C; RH: 60±15%)
 high temperature: no leakage (store 25days at ta: 60°C; RH: ≤ 70±5%)

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

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

mechanical specifications

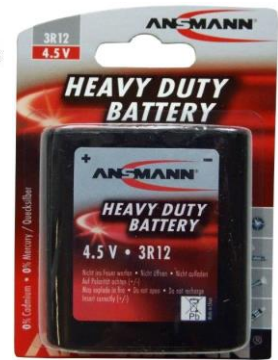
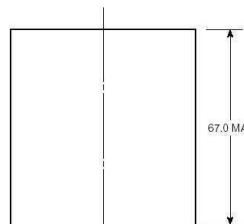
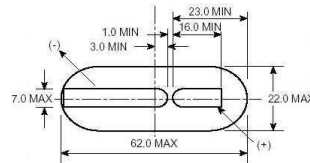
cell dimensions


width: 22.0 -1 mm
 length: 62.0 -2 mm
 height: 67.0 -4 mm

weight: 110 ± 5 g

blister package

dimensions: 120 x 85 mm
 weight (incl. battery): 118 ± 5 g



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|  | ANSMANN Specifications for model: | Ansmann 3R12 Heavy Duty 1pc blister package |
| | data sheet no. / part no. | 5013091 |
| | supplier no. | 703385 |
| | author / date | TG / 26.10.2015 |