

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
 1300 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

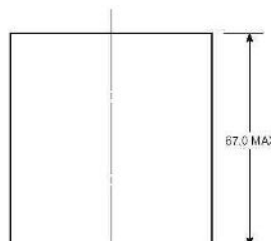
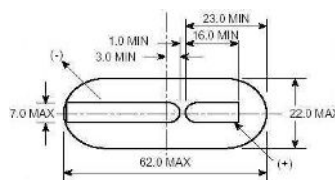
cell dimensions

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 / 10.06.2014

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