

battery type: Alkaline Manganese (Mercury free)
battery size: IEC: 3LR12; JIS: 3LR12; Common: 312A
chemical system: Zn / KOH-H₂O / MnO₂

Conditions

nominal voltage: 4.5 V
open circuit voltage: 4.6...4.8 V (new battery)
 4.5...4.6 V (after 1 year storage at 20°C)

capacity all measurements at 20°C ambient
 rated: 4200 mAh discharge at 20ohms load; 24hours/day; 20°C
 End Voltage (EV): 2.7V

discharge time: 20.5 h for IQC measurement:
 at 20 ohms constant resistance discharge
 End Voltage (EV): 2.7V

typical service output (new battery)

330 h load resistor: 220ohms; EV: 2.7V
 discharge 4h/d
 21 h load resistor: 20ohms; EV: 2.7V
 discharge 1h/d

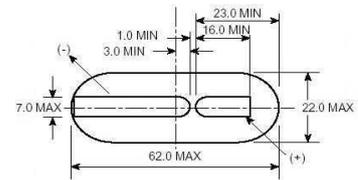
internal resistance: ≤ 3 Ω at 1kHz, sine wave measurement
 according to IEC 896-2

shelf life: ≥ 3 years under proper storage conditions

leakage resistance
 over discharge: no leakage 20ohms continuous discharge for 48h; ta: 20±2°C; RH: 55±20%
 high temperature: no leakage store 20days at ta: 60±2°C; then store 4~24h under standard environment

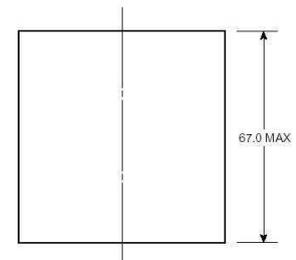
ambient temperature range: - 18...50 °C

recommended storage conditions: below 30 °C ambient temperature
 35...75 % rel. humidity



mechanical specifications

cell dimensions
 width: 22.0 -2 mm
 length: 62.0 -2 mm
 height: 67.0 -4 mm
 weight: 163 g



	ANSMANN Specifications for model:	3LR12
	data sheet no. / part no.	1500-0053
	s.n.	705327
	author / date	MH / 08.05.2023