

battery type: Alkaline Manganese (Mercury free)
battery size: IEC: 6LR61; JIS: 6AM6; ANSI: E; MN1604; 9V-Block
chemical system: Zn / KOH-H₂O / MnO₂

nominal voltage: 9 V
open circuit voltage: 9.2...9.8 V new battery
 9.0...9.8 V after 1 year storage at 20°C

Conditions

capacity rated: 550 mAh all measurements at 20°C ambient
 discharge at 10mA load; 24hours/day
 End Voltage (EV): 5.4V
minimum: 525 mAh discharge at 10mA constant current
 End Voltage (EV): 5.4V
 475 mAh discharge at 50mA constant current
 End Voltage (EV): 5.4V

typical service output MAD (new batteries)

Load		35mA	270Ω	620Ω	Background ³⁾ : 10 000Ω Pulse:620Ω
Test mode		24h/d	1h/d	2h/d	24h 1 s per h
End voltage		5.4V	5.4V	5.4V	7.5V
Applications		Reference	Toy	Radio	Smoke detector
Unit		h	h	h	d
Initial	MAD	13.5	17.5	43.5	17.5
	Normal	15.0	19.5	47.0	20.0
Stored 1 year	MAD	12.0	16.5	42.0	16.0
	Normal	14.0	18.5	45.0	18.0

m: minute h: hour d: day

internal resistance: ≤ 4 Ω at 1kHz, sine wave measurement
 full battery

shelf life: 5 years under proper storage conditions

leakage resistance

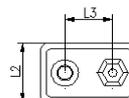
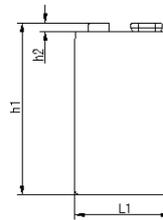
over discharge: no leakage 180ohms continuous discharge for 48h; ta: 20°C; RH: 60±15%
 high temperature: no leakage store 20days at ta: 60°C; RH:90±5%

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

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

mechanical specifications

cell dimensions
 length L1: 26.5 -2 mm
 length L2: 17.5 -2 mm
 length L3: 12.7 ± 0.25 mm
 height h1: 48.5 -2 mm
 weight: 45 ± 3 g



	ANSMANN Specifications for model:	High Quality Alkaline Battery 9V E-block
	data sheet no. / part no.	
	s.n.	701381
	author / date	TG / 19.04.2021