battery type: Alkaline Manganese (Mercury free)
battery size: IEC: 6LF22; 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...9.6 V after 1 year storage at 20°C

capacity
rated: 500 mAh discharge at 35mA load; 24hours/day
End Voltage (EV): 5.4V
minimum: 525 mAh discharge at 10mA constant current
End Voltage (EV): 5.4V
325 mAh discharge at 75mA constant current
End Voltage (EV): 5.4V
typical service output (new batteries)
≥ 13 h discharge at 35mA constant current; EV: 5.4V
discharge 24h/d
≥ 17 h discharge at 270Ω resistive load; EV: 5.4V
discharge 1h/d
≥ 43 h discharge at 620Ω resistive load; EV: 5.4V
discharge 2h/d
≥ 11.5 h discharge at 180Ω resistive load; EV: 4.8V
discharge 30min/d

internal resistance: ≤ 4 Ω at 1kHz, sine wave measurement
according to IEC 896-2

shelf life: 7 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

blister card
dimensions: 120 x 85 mm
weight (incl. battery): 53 ± 3 g