

battery type: Zinc-Air Alkaline
battery size: Block Battery
chemical system: Zn - MnO₂ - KOH

Conditions

nominal voltage: 6 V

open circuit voltage (OCV): 5.8...6.4 V
 5.8...6.3 V

closed circuit voltage (CCV): ≥ 5.52 V

≥ 5.40 V
 ≥ 5.40 V

new battery*
 after 1 year storage at 20°C
 new battery*
 measured at 20Ω load within 0.3s
 after 3 months storage at 20°C
 after 1 year storage at 20°C

*within 30days after production
 remove plastic cover 30min prior

capacity

nominal: 50 Ah
 minimum: 43 Ah

all measurements at 20°C ambient
 at 750Ω load; 14h/d; E.V.: 3.6V
 at 250Ω load; 14h/d; E.V.: 3.6V

max. output currents

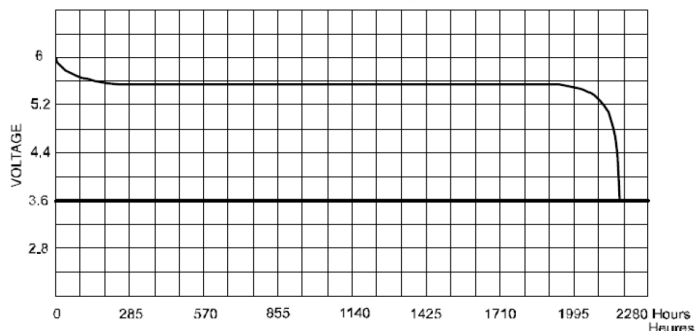
max. continuous average: 45 mA
 max. intermittent discharge: 180 mA for max. 60s
 max. pulse discharge: 360 mA for max. 1s

max. capacity usable per hour for intermittent and pulse discharge: 34 mAh

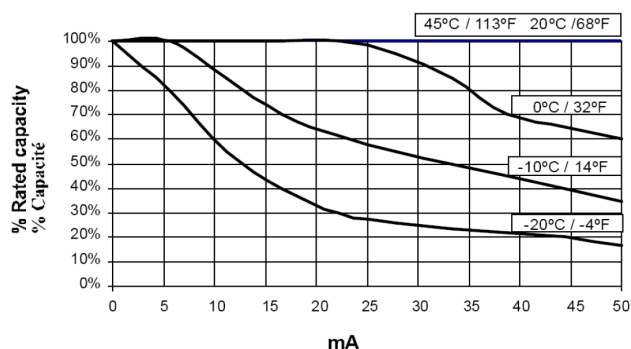
for IQC measurement:
 discharge at 42mA constant current to E.V. 3.6V
 min. discharge time: 1000h

discharge diagrams:

250 Ω - 14 HOURS / DAY - CUT OFF 3,6 VOLTS
 250 Ω - 14 HEURES / JOUR - TENSION D'ARRÊT 3,6 VOLTS



CAPACITY AS A FUNCTION OF TEMPERATURE AND DUTY
 CAPACITÉ EN FONCTION DE LA TEMPÉRATURE ET DU RÉGIME



shelf life: 2 years under proper storage conditions

leakage resistance

over discharge: no leakage
 high temperature: no leakage
 15.6ohms continuous discharge to 3.6V; ta: 20°C; RH: 55 ± 20%
 store 30days at ta: 45°C; RH:90±5%

ambient temperature range:

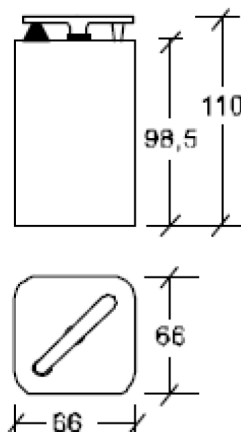
0...40 °C operation
 recommended storage conditions: 5...25 °C ambient temperature
 45...75 % rel. humidity

mechanical specifications

cell dimensions

length: 66.0 +/- 1 mm
 width: 66.0 +/- 1 mm
 height (incl. terminals): 110.0 +/- 2 mm
 height (case): 98.5 +/- 2 mm

weight: 715 ± 20 g



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ANSMANN Specifications for model:

data sheet no. / part no.

supplier no.

author / date

Alkaline Air Depolarised
 Block Battery 6V 50Ah

704367

TG / 28.02.2022