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Datasheet

Alkaline AAA Battery

RS Stock number [789-2821](#)



Reference Standards:

National standards of People's Republic of China:

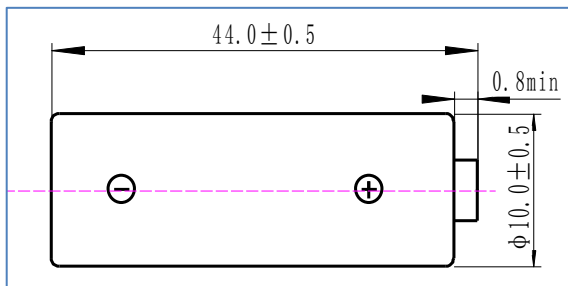
GB/T 8897.1-2003 《Primary batteries-part 1:General》 (IDT IEC60086-1: 2001) ;

GB8897.2-2005 《Primary batteries-part 2: Physical and technologic specifications》
(MOD IEC60086-2: 2001) ;

GB8897.5 《Primary batteries-part 5: Safety of batteries with aqueous electrolyte》 (IDT IEC60086-5)

Mechanical Requirements:

Physical:



Weight: 12 ± 1 g



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Electrical Requirements:

Nominal Voltage: 1.5 V

Open-circuit voltage: Min – 1.50 V, Max – 1.65 V

Cell Service Life:

Unless otherwise stated, all measurements are to be performed at a Standard Environment of $20 \pm 2^{\circ}\text{C}$, $60 \pm 15\%\text{R.H.}$

Table 1

Application	Power Load	Cycle Time	Cutoff Voltage	Minimum Average Duration			
				Initial	After 12 months storage	After 36 months storage	Unit
Radio	75 Ω	4h/d	0.9	70	64.4	59.5	h
Recorder	10 Ω	1h/d	0.9	8	7.4	6.8	h
Flashlight	5.1 Ω	4m/h, 8h/d	0.9	3.8	3.5	3.2	h
Remote controller	24 Ω	15s/m, 8h/d	1	20	18.4	17	h
Photoflash	600mA	10s/m, 1h/d	0.9	280	258	238	Pulses
Portable lighting	600mA	24h/d	1	20	18.4	17	Min
-----	20 Ω	24h/d	0.9	17	15.6	14.5	h

Safety of Batteries:

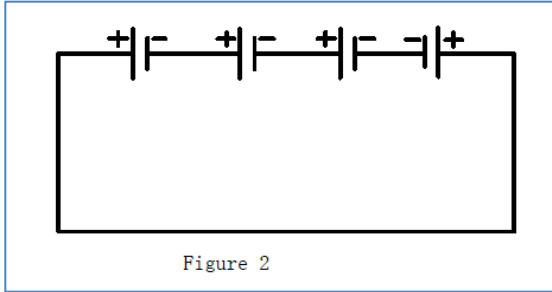
Table 2

Test		Misuse Simulation	Requirements
Electrical	D	Incorrect installation	No explosion (NE)
	E	External short circuit	No explosion (NE)
	F	Over discharge	No leakage and distortion
Temperature	G	High temperature store	No leakage

Test D – Incorrect Installation:

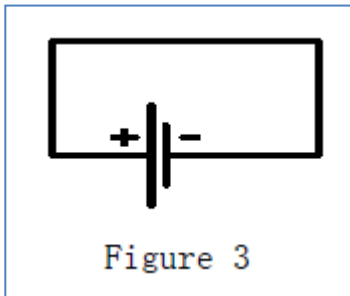
Procedure (5 groups) – Four undischarged batteries of the same brand, type and origin shall be connected in series with one reversed as shown in the diagram below. The circuit shall be connected for 24 hours or until the battery case temperature has returned to ambient temperature. The resistance of the inter-connecting circuitry shall not exceed 0.1 Ω .

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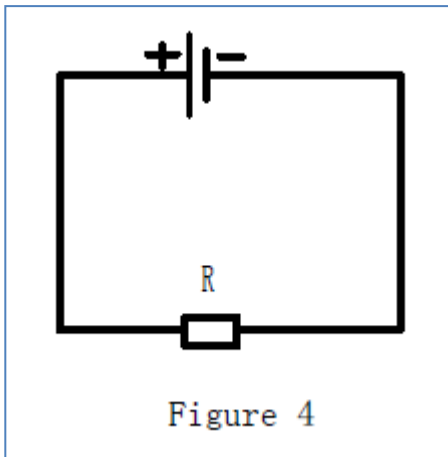
Test E – External Short Circuit:

Procedure (5 groups) – An undischarged battery shall be connected as shown below. The circuit shall be connected for 24 hours or until the battery case has returned to ambient temperature. The resistance of the inter-connecting circuit shall not exceed 0.1Ω .



Test F – Overdischarge:

Procedure (5 groups) – After having finished discharging under the stated condition, continue discharge, until the on-load voltage falls to 40% of the nominal voltage.





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Test G – High Temperature

Procedure – Batteries stored in the condition of 60°C, 90%±5% R.H. for 20 days. See table 2 for requirements.

Heavy Metal Contents:

Mercury Limit (per battery weight): 1 ppm

Cadmium Limit (per battery weight): 2 ppm

Lead Limit (per battery weight): 15 ppm

Specifications:

Chemistry: Alkaline

Size: AAA

Terminal Type: Standard