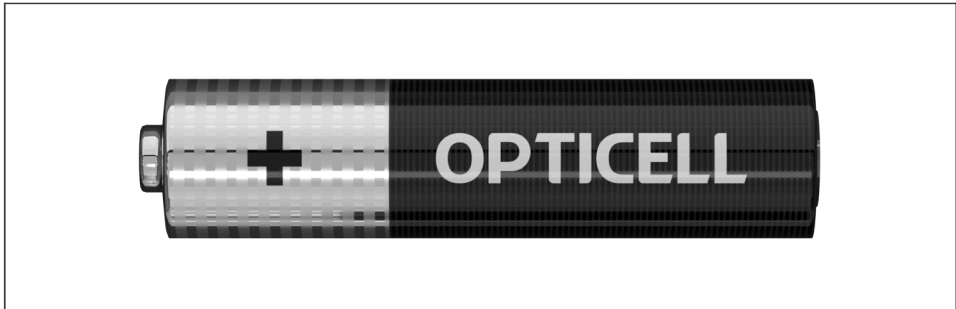




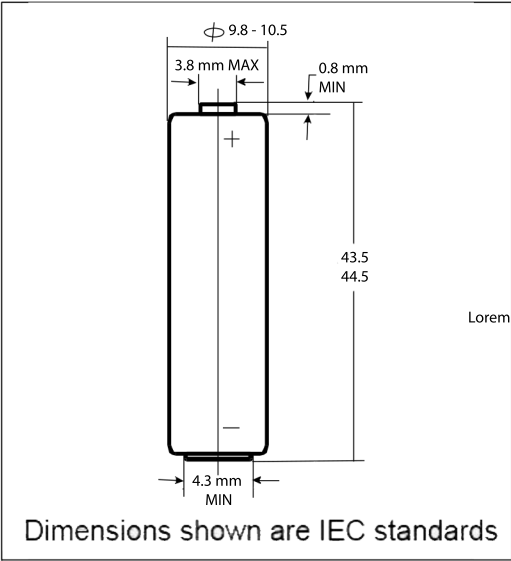
MN2400

Size: AAA (LR03)

Alkaline-Manganese Dioxide Battery



Nominal voltage	1.5 V
Typical weight	12.0g
Storage temperature range	Not exceed 30°C
Operating temperature range	-18 °C to 50°C (-0°F to 122°F)
Designation	ANSI: 24A IEC: LR03



Security Characteristics

1. User Drop Test
This test simulates the situation when a battery is accidentally dropped. Test conditions:
Undischarged test batteries shall be dropped from a height of 1 m onto a concrete surface. Each test battery shall be dropped six times, twice in each of the three axes. The test batteries shall be stored for 1 h afterwards.
Number of test sets: 5 batteries
Requirement: No fire, No explosion. .

2. Short-circuit explosion-proof characteristics
This test simulates an external short circuit of a battery during daily handling of batteries. Test conditions:
Positive and negative terminals of an undischarged battery shall be connected directly. The circuit shall be completed for 24 h or until the battery case temperature has returned to ambient. The resistance of the inter-connecting circuitry shall not exceed 0,1 Ω.
Number of test samples: 5 batteries
Requirement: No fire or explosion; Leakage is allowable.

3. Incorrect installation
This test simulates incorrect installation of a battery in a series application. Test conditions:
4 undischarged batteries are used per test. 3 batteries are placed correctly in series; the 4th battery is reversed with respect to polarity. The circuit is maintained until venting occurs or the reversed battery temperature has returned to ambient.
Number of test sets: 5 (20 batteries)
Requirement: No fire or explosion; Leakage is allowable.

Service output

s : second m: minute h: hour d: day

Load		20ΩA	5.1Ω	50mA
Test mode		24h/d	4m/h 8h/d	1h/12h 24h/d
End voltage		0.9V	0.9V	0.9V
Unit		h	m	h
Applications		Reference	Portable lighting	Digital Audio
Initial	MAD*	18.0	230	22.0

*MAD - minimum average duration