# **DURACELL**®

## MN1203 (3LR12)

#### Alkaline Manganese Dioxide Battery



#### **Features**

- Chemical System: Alkaline-Manganese Dioxide (Zn/MnO2)
- Replaces 3LR12, GP312A, V4012
- High voltage response, stable during most of the lifetime of the application
- Reliable Performance
- Wide operating temperature range
- Low self-discharge with long operating life (<10% after 1 year of storage at + 20 °C)</li>
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environment standards:
  - o Safety: IEC 60086-5
  - o Battery Directive 2006/66/EC
  - o RoHS and REACH compliance
  - o ISO 9001, Duracell World Class Continuous Program

#### **Typical applications**

- Bicycle Torches
- Flashlights

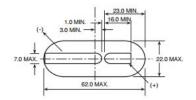
#### **Operating conditions**

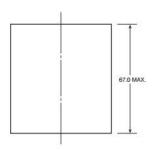
Operating temperature range

-10°C to 60°C (14°F to 140°F) 5°C to 30°C

Storage temperatures Recommended

5°C to 30°C (41°F to 86° F)





#### **Electrical characteristics**

Nominal capacity (20 Ohm Cont., 2.4 V cut-off)

4000 mAh

Open circuit voltage (at + 20 °C)

4.5 V

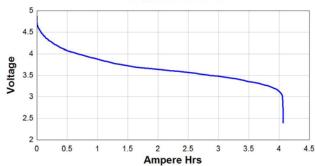
#### **Physical characteristics**

Typical weight

165g (5.82 oz.)

Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions

### Continuous Discharge (Capacity) 20 Ohm to 2.4V Cut-off





Berkshire Corporate Park Bethel, CT. 06801 U.S.A.

Telephone: Toll-free 1-800-544-5454

www.duracell.com

This data is subject to change. Performance information is typical. Contact Duracell for the latest information.

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