

PRIMARY -

> **Non Rechargeable**

Primary batteries are commonly used for applications with relatively low power requirements.

Alkaline

- 1.5 Volts
- Commonly used for low power consumer applications
- Example: portable cassette/radio

Silver Oxide

- 1.5 Volts
- similar to alkaline with good pulse discharge characteristics
- Example: animal correction devices

Lithium Manganese Dioxide

- 3.0 Volts
- Used for low to moderate power specifications for consumer & industrial applications with long life requirements
- Example: keyless entry systems

Lithium Polycarbon Monofluoride

- 3.0 Volts
- specifically designed for applications with high operating temperatures up to 85°
- Example: industrial controllers

Lithium Thionyl Chloride

- 3.6 Volts

BOBBIN CONSTRUCTION

- Designed for applications with long operating cycles & low pulse requirements
- Example: gas meters
- 3.6 Volts

SPIRAL WOUND CONSTRUCTION

- Designed for applications with long operating cycles & high pulse requirements
- Example: RF Transmitters

Lithium Sulfur Dioxide

- 3.0 Volts
- Used to provide continuous high discharge currents
- Example: military communications

SECONDARY-

> Rechargeable

- Secondary batteries offer wide selection of chemistries
- Applications are experiencing tremendous growth in both consumer & industrial markets

Nickel Cadmium

- 1.2 Volts
- Commonly used for high power applications
- Example: power tools

Nickel Metal Hydride

- 1.2 Volts
- Designed to be NICAD compatible for applications requiring high energy density
- Example: portable test equipment

Lead Acid

- 2.0 Volts per cell (up to 26 Volts scalable)
- Designed for shallow discharge applications with cost sensitive products
- Example: Emergency Lighting

Lithium-Ion

- 3.6-4.2 Volts
- Designed for applications with high energy density & light weight requirements. Requires protection circuitry
- Example: PDA, portable medical

Lithium-Polymer

- 3.6-4.2 Volts
- High energy density, low self discharge & excellent form factor
- Example: military drones

Lithium Iron Phosphate

- 3.2 Volts
- Safe rechargeable lithium technology
- Long lasting (2000+ cycles)
- Environmentally Friendly
- Example: Energy Storage/Medical Devices

Lithium Manganese Dioxide Rechargeable

- 3.0 Volts
- Small form factor
- designed for very low power requirements
- Example: memory back-up