

Continuous Positive Airway Pressure Machine - CPAP



Primary Lithium Button Cells

CPAP machine

A CPAP machine sends a steady flow of oxygen into your nose and mouth as you sleep. This keeps your airways open and helps you breathe normally. This machine is often prescribed by doctors to treat sleep apnea disorders – in which breathing repeatedly stops and starts affecting the quality of sleep.

Battery challenge

Safety is one of the biggest challenges for wearable, medical and healthcare devices. The battery must ensure continuous safety and provide enough energy at the same time to run the application. For this kind of application, a prolonged lifetime is expected as well.

Technical solution

Primary Lithium Button Cell CR 2032/ 2450

For more information, please visit our website

<https://www.varta-ag.com/en/industry/product-solutions/lithium>



Characteristics	Primary Lithium Button
Capacity	230 mAh / 620 mAh @ 3V
Dimensions	20.0 mm / 24.0 mm diameter 3.2 mm / 5.0 mm height
Special Feature	Long Life time
Characteristics	<ul style="list-style-type: none"> • Low self discharge <1%/Y • 10 years Shelf life • Stable discharge behavior • Wide temperature range
Safety Features	<ul style="list-style-type: none"> • Reliable Lithium MnO₂ System • Environmentally friendly • No Passivation • UL Recognized

Primary Lithium Button Cells

The lithium manganese dioxide cell chemistry was one of the first solid cathode cells commercially developed and is still the most widely used battery system today. These cells offer an excellent shelf life, wide operating temperature range, low self discharge rates and broad range of different sizes and capacities. Potential applications for these cells are devices in telecommunication, metering, instrumentation, sensoric and other portable equipment. Based on the outstanding energy density, cell performance and reliability, these cells have been able to meet the requirements of our customers worldwide.

- High open circuit and load voltage
- High Energy density (400Wh/kg or 600Wh/l)
- Low self-discharge for long storage and operating time
- Wide operating temperature range (-20° C up to 70° C)
- High pulse load capability
- UL Recognition
- Bare cells, misc.versions for PCB mount and wire / connectors available