

# PRL9002 Technical Specification

## CR9V/P

Lithium Manganese  
Dioxide (Li-MnO<sub>2</sub>) Batteries

### ELECTRICAL CHARACTERISTICS

(Typical values for cells stored for one year or less, at 23°C)

- Nominal capacity 1200mAh  
At 1200Ω (12.0mA), +23°C, 4.0V cut off. The capacity restored by the Cell varies according to current drain, temperature and cut voltage.

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- Nominal voltage 9.0V

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- Maximum recommended continuous current 120mA  
(To get 50% of the nominal capacity at +25°C with 4.0V cut off. Higher currents possible.)

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- Maximum pulse current capability 400mA  
Pulse capability varies according to pulse characteristics (frequency and Duration), temperature, cell history (storage conditions prior to usage) and the application's acceptable minimum voltage.

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- Storage (recommended) temperature : 5°C / +35°C  
humidity : less than 70% RH

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- Operating temperature range -40°C / +85°C  
(Operation at temperature different from ambient may lead to reduced capacity and lower voltage plateau readings.)

### REMARK

CR9V battery with Printed Circuit Board (PCB) for safety design, the PCB include three diodes and one polyswitch. The three diodes can well protect from abnormal charging currents or forced discharge during use, and the polyswitch can limit the discharging current in abnormal use, such as short circuit or larger charging current.

### CAUTION

Risk of fire and burns. Do not recharge, disassemble, heat above 100°C or incinerate. Do not mix fresh batteries with used Lithium Batteries or other Battery types.

### TRANSPORTATION

For a complete description of transportation regulations and definitions of the transportation regulations and definitions of the transportation classifications.

### KEY FEATURES

- High energy density
- Wide operating temperature range
- High pulse current capability
- Lasts up to 5X longer than ordinary 9V alkaline batteries
- Lasts up to 10X longer than carbon-zinc batteries
- Low self discharge rate (less than 0.16% per month at +23°C)
- Over 10 years service life
- Glass-to-metal sealed

Underwriters Laboratories (UL)

Component Recognition (File Number MH10330)  
Material Safety Datasheet - MSDS M002

### MAIN APPLICATIONS

- Medical Devices
- Music/Audio devices
- Smoking alarm
- Instrumentation
- Safety Devices
- Communication Devices
- Parking Meter
- ... Etc

Note: any representations in this data sheet concerning performance are for informational purpose only and are not construed as warranties, either expressed or implied, of future performance.



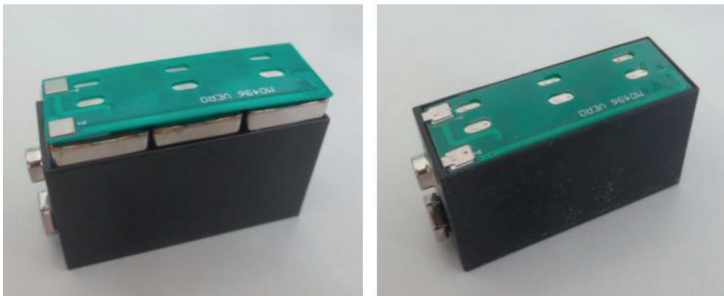
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## PHYSICAL CHARACTERISTICS

• Length (max.)	26.2mm (1.02")
• Width (max.)	17.2mm (0.677")
• Height (max.)	48.5mm (1.89")
• Typical weight	43.0G (1.52oz)

## STRUCTURE

Plastic housing



**Important Note: This design can meet IEC standard, functional no impact.**

## PACKAGE

The batteries are packed as the agreement of the customer and supplier. The box should have the eligible identifiers and QC PASS mark.

## TRANSPORTATION

The battery out of factory is full of electric power, so avoid fierce shake, strike and squeeze. Avoid the direct sunshine and raining.

## WARNINGS AND CAUTIONS

Lithium batteries contain volatile materials such as lithium, organic solvents and other chemical ingredients. Incorrect handling of lithium batteries may result in heat generation, fire or explosion, with the risk of personal injury or damage. To prevent accidents when handling batteries, be sure to follow the following precautions.

- Do not short circuit, charge or make the anode and the cathode reversed.
- Do not force-discharge, squeeze, puncture or burn the battery
- Do not disassemble the battery
- The battery should be taken off from instrument when it is consumed to cut-off voltage, and dispose according to local laws, or hand it to professional recycle institution.
- Do not mix different types of batteries.
- Do not expose the battery in the environment of over 85°C.
- Do not solder directly onto battery, please use wire or nickel sheet by spot welding.
- Store the battery by original pack to avoid any possibility of external short circuit.
- Don't store the battery in ESD bag and foam.
- Don't store battery in electric metal surface.
- Do not stack or jumble batteries.
- Don't pack battery connected with any kinds of lead random in paper box or pack belt.
- Batteries shall be far away from children, and take measures to prevent the swallow as much as possible.