

# Primary Lithium – Button and Cylindrical Cells



**VARTA Microbattery** combines entrepreneurial substance, strategic visions and technological competency for constantly improved products, application oriented designs and innovative product development. For more information please visit our internet page [www.varta-microbattery.com](http://www.varta-microbattery.com).

## Capacity Range

- From CR 1216 to CR 2450, from 27 mAh to 620 mAh for Primary Lithium Manganese Dioxide Button Cells
- From CR 1/2 AA to CR AA, from 0.95 Ah to 2 Ah for Primary Manganese Dioxide Lithium Cylindrical Cells

## Key Features – Benefits

- High open circuit and load voltage (above 3.0 volts per cell)
- High energy density (400 Wh/kg and 600 Wh/l)
- High capacity and high rate cell construction
- Operation over a wide temperature range
- Flat discharge profile under low to medium rate applications
- Low self discharge (less than 1% per year at RT)
- Superior shelf life and operational life (up to 10 years and more)
- UL Recognition
- Ability to provide a variety of laser welded termination tabs for all cell types

## Quality

- Low self discharge (less than 1% per year at RT)
- Wide temperature range (-55 to +80°C)
- High reliability
- Safety: all cells are UL recognized
- Resistance to corrosive environments

## Battery Guide

Four Lithium Cell Families with specific strengths and features provide the ideal battery solution for any application.



**VARTA Microbattery** provides a full programme of Lithium Batteries for all performance requirements.

**Lithium Cylindrical Cells – primary CR bobbin series (Li-MnO<sub>2</sub>)**

Typical Applications:

- Metering
- Industrial electronics
- Memory backup

Type Designation	Type No.	Voltage (V)	Capacity (mAh)
CR 1/2 AA	6127	3.0	950
CR 2/3 AA	6237	3.0	1350
CR AA	6117	3.0	2000

**Lithium Cylindrical Cells – primary CR coiled series (Li-MnO<sub>2</sub>)**

Typical Applications:

- Medical
- Security systems
- Automotive
- Smoke detectors
- Assel tracking

Type Designation	Type No.	Voltage (V)	Capacity (mAh)
CR 2	6206	3.0	850
CR 123 A	6205	3.0	1550
CR 2/3 AH	6215	3.0	1500
CR 1/2 AAH-R	6213	3.0	850
CR 2/3 AH-R	6214	3.0	1600
CR AH-R	6217	3.0	2400



	self discharge	storage behaviour	high rate capacity	temperature range
<b>Li Cylindrical Cells – primary</b>				
CR mass/bobbin series	+++	++++	++	+++
CR coiled series	+++	+++	+++	+++
<b>Li Button Cells – primary</b>				
CR series	+++	+++	++	++

**Lithium Button Cells – primary CR button series (Li-MnO<sub>2</sub>)**

Typical Applications:

- Remote Control
- Memory backup
- Medical
- Watch

Type Designation	Type No.	Voltage (V)	Capacity (mAh)
CR 1216	6216	3.0	27
CR 1220	6220	3.0	35
CR 1616	6616	3.0	55
CR 1620	6620	3.0	70
CR 2016	6016	3.0	90
CR 2025	6025	3.0	165
CR 2032	6032	3.0	230
CR 2430	6430	3.0	300
CR 2450	6450	3.0	620
CR 1/3 N	6131	3.0	170



Single cell or assembled battery solution – **VARTA Lithium Cells** for every application!

## Product Overview

Type Designation	Type No.	Voltage (V)	Capacity (mAh)	Diameter (mm)	Height (mm)	Weight (g)
<b>VARTA Lithium Cylindrical Cells (Li-MnO<sub>2</sub>)</b>						<b>CR mass / bobbin series</b>
CR 1/2 AA	6127	3.0	950	14.75	25.1	11.5
CR 2/3 AA	6237	3.0	1350	14.75	33.5	15.0
CR AA	6117	3.0	2000	14.75	50.5	21.5
<b>VARTA Lithium Cylindrical Cells (Li-MnO<sub>2</sub>)</b>						<b>CR coiled series</b>
CR 2	6206	3.0	850	15.60	27.0	11.0
CR 123 A	6205	3.0	1550	17.00	34.5	17.0
CR 2/3 AH	6215	3.0	1500	17.00	33.5	17.0
CR 1/2 AAH-R	6213	3.0	850	14.22	25.0	9.0
CR 2/3 AH-R	6214	3.0	1600	17.00	33.5	17.0
CR AH-R	6217	3.0	2400	17.00	45.0	23.0
<b>VARTA Lithium Button Cells (Li-MnO<sub>2</sub>)</b>						<b>CR button series</b>
CR 1216	6261	3.0	27	12.50	1.6	0.7
CR 1220	6220	3.0	35	12.50	2.0	0.8
CR 1616	6616	3.0	55	16.00	1.6	1.2
CR 1620	6620	3.0	70	16.00	2.0	1.2
CR 2016	6016	3.0	90	20.00	1.6	1.8
CR 2025	6025	3.0	165	20.00	2.5	2.5
CR 2032	6032	3.0	230	20.00	3.2	3.0
CR 2430	6430	3.0	300	24.50	3.0	4.0
CR 2450	6450	3.0	620	24.50	5.0	6.2
CR 1/3 N	6131	3.0	170	11.60	10.8	3.0

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