

# 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
  - From ER 1/2 AA to ER D, from 1.2 Ah to 19 Ah for Primary Lithium Thionyl Chloride Cylindrical Cells
- VARTA Microbattery provides a full programme of Lithium Batteries for all performance requirements.

## Key Features – Benefits

- Optimal battery selection
- Broad capacity range from 27 to 19000 mAh
- High energy density
- Superior shelf life and operational life (up to 15 years and more)
- Design/assembly flexibility

### 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 ER bobbin series (Li-SoCl<sub>2</sub>)

Typical Applications:

- Metering
- Medical
- Security systems
- Memory backup
- Asset tracking

Type Designation	Type No.	Voltage (V)	Capacity (mAh)
ER 1/2 AA	7126	3.6	1200
ER AA	7106	3.6	2500
ER A	7110	3.6	3650
ER C	7114	3.6	8500
ER D	7120	3.6	19000

Application CR bobbin series

Application ER bobbin series



## Quality

- Low self discharge (less than 1% per year at RT)
- Wide temperature range (-55 to +85°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.

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

### 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 2/3 AH	6215	3.0	1500
CR 123 A	6205	3.0	1550
CR 2	6206	3.0	850

### 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

Application CR coiled series

Application CR button series



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 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-SoCl<sub>2</sub>)</b>						<b>ER bobbin series</b>
ER 1/2 AA	7126	3.6	1200	14.60	25.1	8.8
ER AA	7106	3.6	2500	14.60	50.5	19.0
ER A	7110	3.6	3650	16.80	50.5	25.9
ER C	7114	3.6	8500	25.90	50.0	51.0
ER D	7120	3.6	19000	33.80	59.7	100.0
<b>VARTA Lithium Cylindrical Cells (Li-MnO<sub>2</sub>)</b>						<b>CR coiled series</b>
CR 2/3 AH	6215	3.0	1500	17.00	33.5	17.0
CR 123 A	6205	3.0	1550	17.00	34.5	17.0
CR 2	6206	3.0	850	15.60	27.0	11.0
<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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