

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.

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.

self discharge	storage behaviour	high rate capacity	temperature range
----------------	-------------------	--------------------	-------------------

Lithium Cylindrical Cells – primary CR bobbin series (Li-MnO₂)

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-MnO₂)

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

Li Cylindrical Cells – primary

CR mass/bobbin series	+++	++++	++	+++
CR coiled series	+++	+++	+++	+++

Li Button Cells – primary

CR series	+++	+++	++	++
-----------	-----	-----	----	----

Lithium Button Cells – primary CR button series (Li-MnO₂)

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)
VARTA Lithium Cylindrical Cells (Li-MnO₂)						CR bobbin series
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
VARTA Lithium Cylindrical Cells (Li-MnO₂)						CR coiled series
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
VARTA Lithium Button Cells (Li-MnO₂)						CR button series
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

Contact

Headquarters

VARTA Microbattery GmbH, Daimlerstr. 1, 73479 Ellwangen, Germany

Germany

VARTA Microbattery GmbH
Daimlerstr. 1, 73479 Ellwangen, Germany
Tel +49 7961 921-0
Fax +49 7961 921-553

Americas

VARTA Microbattery Inc.
555 Theodore Fremd Avenue
Suite C 304 Rye, NY 10580, USA
Tel +1 914 592 25 00
Fax +1 914 345 04 88

Asia Pacific

VARTA Microbattery Pte. Ltd.
300 Tampines Avenue 5, #05-01 Income
@ Tampines Junction, 529653 Singapore
Tel +65 6 260 58 01
Fax +65 6 260 58 12

VARTA Microbattery GmbH is a company of VARTA AG.



www.varta-microbattery.com