



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 560 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.

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

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-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 2/3 A	6238	3.0	1350
CR AA	6117	3.0	2000



Lithium Cylindrical Cells – primary
ER bobbin series (Li-SoCl₂)

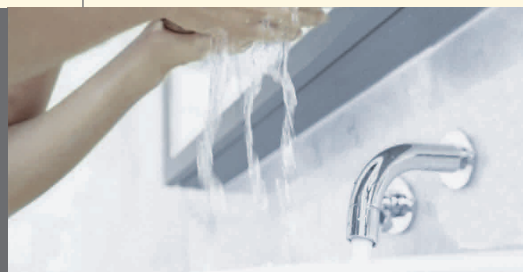
Typical Applications:
■ Metering ■ Medical ■ Security systems
■ Memory backup ■ Asset tracking

Type Designation	Type No.	Voltage (V)	Capacity (mAh)
ER 1/2 AA	7126	3.6	1200
ER AA	7106	3.6	2400
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



Application CR coiled series



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 capability	temperature range
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 ₂)			
Typical Applications: ■ Medical ■ Security systems ■ Automotive ■ Smoke detectors ■ Asset tracking			
Type Designation	Type No.	Voltage (V)	Capacity (mAh)
CR 2 NP	6202	3.0	1500
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 ₂)			
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	280
CR 2450	6450	3.0	560
CR 1/3 N	6131	3.0	170

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)
VARTA Lithium Cylindrical Cells (Li-MnO ₂)				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 2/3 A	6238	3.0	1350	17.0	33.5	17.0
CR AA	6117	3.0	2000	14.75	50.5	21.5
VARTA Lithium Cylindrical Cells (Li-SoCl ₂)				ER bobbin series		
ER 1/2 AA	7126	3.6	1200	14.6	25.1	8.8
ER AA	7106	3.6	2400	14.6	50.5	19.0
ER A	7110	3.6	3650	16.8	50.5	25.9
ER C	7114	3.6	8500	25.9	50.0	51.0
ER D	7120	3.6	19000	33.8	59.7	100.0
VARTA Lithium Cylindrical Cells (Li-MnO ₂)				CR coiled series		
CR 2 NP	6202	3.0	1500	11.6	60.0	13.0
CR 2/3 AH	6215	3.0	1500	17.0	33.5	17.0
CR 123 A	6205	3.0	1550	17.0	34.5	17.0
CR 2	6206	3.0	850	15.6	27.0	11.0
VARTA Lithium Button Cells (Li-MnO ₂)				CR button series		
CR 1216	6261	3.0	27	12.5	1.6	0.7
CR 1220	6220	3.0	35	12.5	2.0	0.8
CR 1616	6616	3.0	55	16.0	1.6	1.2
CR 1620	6620	3.0	70	16.0	2.0	1.2
CR 2016	6016	3.0	90	20.0	1.6	1.8
CR 2025	6025	3.0	165	20.0	2.5	2.5
CR 2032	6032	3.0	230	20.0	3.2	3.0
CR 2430	6430	3.0	280	24.5	3.0	4.0
CR 2450	6450	3.0	560	24.5	5.0	6.2
CR 1/3 N	6131	3.0	170	11.6	10.8	3.0

Contact

Headquarters Germany

VARTA Microbattery GmbH, Daimlerstrasse 1, 73479 Ellwangen, Germany
Tel +49 79 61 921 - 0 | Fax +49 79 61 921 - 553

America

VARTA Microbattery, Inc., 1311 Mamaroneck Avenue, Suite 120,
White Plains, NY 10605, 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,
Tampines Junction, Singapore 529653
Tel +65 6 260 58 01 | Fax +65 6 260 58 12

VARTA Microbattery is a Company of
Montana Tech Components AG,
Hauptstrasse 35, 5737 Menziken, Switzerland

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