



**VARTA**

**+ CR 1/2 AA**

**3V Lithium**

**MADE IN GERMANY**



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 AA, from 27 mAh to 2 Ah for Primary Lithium Button and Round Cells.  
 From MC 614 to ML 1220, from 1.5 mAh to 16 mAh for Rechargeable Lithium Ion Button 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)
- Superior shelf life and operational life (up to 10 years and more – after 15 years of experience with laser welded sealing this is not just a projection but a proven fact)
- High capacity and high rate cell construction
- Operation over a wide temperature range

## Key Features – Benefits

- Safety: all cells are UL recognized under file BBCVL MH 13654
- Broad product range: primary and rechargeable batteries for special applications
- Main power source: for small and slim portable equipment in medical and automotive applications and for safety and alarm systems
- Backup power supply: for all kind of metering systems, digital phones, PDA, MP3, MP4, cameras etc.

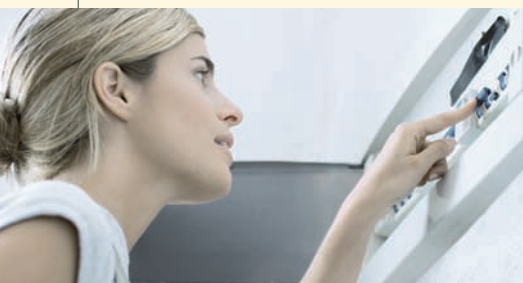
 Lithium Cylindrical Cells – primary CR mass/bobbin series			
Typical Applications: ■ Metering ■ Industrial electronics			
Type Designation	Type No.	Voltage (V)	Capacity (mAh)
VARTA Lithium Cylindrical Cells (Li-MnO <sub>2</sub> )			
CR 1/2 AA	6127	3.0	950
CR 2/3 AA	6237	3.0	1350
CR 2/3 A	6238	3.0	1350
CR AA	6117	3.0	2000

 Lithium Cylindrical Cells – primary CR coiled series			
Typical Applications: ■ Medical ■ Home security ■ Automotive			
Type Designation	Type No.	Voltage (V)	Capacity (mAh)
VARTA Lithium Cylindrical Cells (Li-MnO <sub>2</sub> )			
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

Application CR mass/bobbin series

Application CR coiled series

Application CR series



VARTA Microbattery is a leader of Ni-MH Button Cell technology and received several ecological and industry awards.



## Battery Guide

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

	self discharge	over-charge	deep discharge	cycle life	storage behaviour	high rate capability	charge efficiency at high temp.	temperature range
<b>Li Cylindrical Cells – primary</b>								
CR mass/bobbin series	+++				++++	+		+++
CR coiled series	+++				+++	+++		+++
<b>Li Ion Button Cells – primary</b>								
CR series	+++				+++	+		++
<b>Li Ion Button Cells – rechargeable</b>								
MC series	++	O*	++	++	+	+	+	+
ML series	++	O*	+	+	++	+	++	++

\*charge control necessary

Lithium Button Cells – primary CR series			
Typical Applications: ■ Remote Control ■ Computer/MBU ■ Medical ■ Watch			
Type Designation	Type No.	Voltage (V)	Capacity (mAh)
VARTA Lithium Button Cells (Li-MnO <sub>2</sub> )			
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

Lithium Ion Button Cells – rechargeable ML series			
Typical Applications: ■ MBU ■ RTC			
Type Designation	Type No.	Voltage (V)	Capacity (mAh)
VARTA rechargeable Lithium Button Cells (Li-Ion)			
ML 1220	66013	3.0	16.0

### Application ML series



Single cell or assembled power pack – VARTA Button 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 <sub>2</sub> )			CR mass/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-MnO <sub>2</sub> )			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 <sub>2</sub> )			CR 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
VARTA rechargeable Lithium Button Cells (Li-Ion)			MC/ML series			
ML 1220	66013	3.0	16.0	12.5	2.0	1.0

## 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

**MONTANA**  
TECH COMPONENTS

