Primary Lithium Button and Cylindrical Cells

Empowering Independence for a Smart and High-Quality Life



VARTA combines strategic visions and technological competence for premium products and application oriented designs. Whether single cell or assembled batteries – our product portfolio offers solutions for every application to empower a high-quality and more independent life.

Primary Lithium Cylindrical Cells



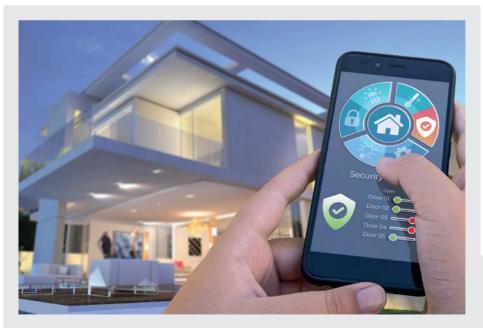
Key features and benefits

- 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)
- High capacity or high-rate cell construction
- No passivation effect

- Operation over a wide temperature range
- 0 % lead, 0 % mercury and 0 % cadmium
- All cells are UL recognized
- Product support worldwide is available for design engineers
- Battery designs in various assemblies

Application Examples:

- Alarm system Uninterrupted signal to guarantee maximum security.
- Calorimeter For precise measuring of heat capacities or emissions.
- **Car alarm** High reliability and availability are essential.
- Gas consumption meter For smart metering to safe limited resources.
- Industry 4.0 sensor
 Best performance for analyzing data.



• Home security station Best quality to protect your property.

- Memory Back Up (MBU) For independent and continuously available data memory.
- Toll collection system High flexibility and adaptability without ongoing disturbances.
- Watch Long lifespans for the least amount of inconvenience.



• Water consumption meter For smart metering to safe limited resources.

• Smoke detector Protection for long after inspection is due.

Product Overview

TYPE DESIGNATION	TYPE NO.	VOLTAGE (V)	CAPACITY (mAh)	DIAMETER (mm)	HEIGHT (mm)	WEIGHT (g)
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 AA	6117	3.0	2000	14.75	50.5	21.5
CR coiled series						
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 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



Primary Lithium Button Cells



Key features and benefits

- Various PCB, SMT and wire & connector versions
- Low internal resistance for high pulse load
- High Capacity for longer running time
- Low self-discharge for long storage and operating time
- Wide temperature range (-20 °C up to 70 °C)
- UL Recognition
- Safe & reliable

Application Examples:



• Smart Health For accurate health monitoring. Alarm system

Uninterrupted signal to guarantee maximum security.

- Beacon
 Prolonged signal effect for more
 safety all-around.
- Heart rate monitor For such portable devices a reliable running time is important.
- Smart key Electronic access and authorization system.
- Remote control Highest convenience by requiring almost no maintenance.
 - Industry 4.0 sensor Best performance for analyzing data.

• Key light

Long-lasting energy support for a strong light source.

- Memory back-up (MBU) For independent and continuously available data memory.
- Real time clock (RTC)
 Reliable back-up battery for mobile
 systems.

- Bicycle computer
 No need for numerous changes
 as an additional burden.
- Blood sugar indicator Very long lifecycles for many uses everywhere.
- Data collection Best performance for gathering information.
- Health monitoring For accurate results and a long running time.



- Timer system Strong signal without any interruptions.
- Toll collection system High flexibility and adaptability without ongoing disturbances.
- Tracking system Continuous signal for observations with timely order.
- Watch (digital & analog) Long lifespans for the least amount of inconvenience.
- Fitness tracker Best quality combined with best longevity.

Product Overview

Lithium Button C	ells (Li-Mn	0,)				
TYPE DESIGNATION	TYPE NO.	VOLTAGE (V)	CAPACITY (mAh)	DIAMETER (mm)	HEIGHT (mm)	WEIGHT (g)
CR coin series						
CR 1216	6216	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 2016-P	6016	3.0	86	20.0	1.6	1.8
CR 2025	6025	3.0	165	20.0	2.5	2.5
CR 2025-P	6025	3.0	157	20.0	2.5	2.5
CR 2032	6032	3.0	230	20.0	3.2	3.0
CR 2032-P	6032	3.0	220	20.0	3.2	3.0
CR 2430	6430	3.0	300	24.5	3.0	4.0
CR 2430-P	6430	3.0	280	24.5	3.0	4.0
CR 2450	6450	3.0	620	24.5	5.0	6.2
CR 2450-P	6450	3.0	590	24.5	5.0	6.2
CR 1/3 N	6131	3.0	170	11.6	10.8	3.0



Primary Lithium Cylindrical 1.5V AA & AAA and 9V Block



Key features and benefits

- Longer running time and higher discharge voltage level (versus Primary Alkaline)
- Up to 38% reduced weight in comparison to Alkaline (higher gravimetric energy density versus Alkaline)
- Wide temperature range: -20 °C up to +60 °C (Li 1.5V AA versus Alkaline AA)
- Long shelf life (coding): 15/10 years
- Packaging for OEM customers

Application Examples:



• Smart home device Best performance for a central regulation.

- Smoke detector Protection for long after inspection is due.
- GPS system High flexibility for precise tracking of locations.
- Safety device Best energy and performance for more safety.
- Digital camera Best quality for high-definition pictures.

• Energy intensive application (long term and high energy demand) High power for all kinds of energy intensive applications.



• Sport and outdoor usage Strong signal for use over longer distances.

Product Overview

TYPE DESIGNATION	TYPE NO.	VOLTAGE (V)	CAPACITY (mAh)	DIAMETER (mm)	HEIGHT (mm)	LENGTH (mm)	WIDTH (mm)	WEIGHT (g)		
FR AAA 1.5V	6103	1.5	1100	10.5	44.5			7.3		
FR AA 1.5V	6106	1.5	2900	14.5	50.5			15.0		
CR block 9V	6122	9.0	1150		17.5	49.0	26.5	41.0	00-	



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Representations and distributors in all major countries and regions worldwide. Please see webpage.



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