

The Connected World

Our Energy Solutions
for IoT



Concentrated Energy for many Kinds of Devices of IoT

Wearables, devices in smart home and smart city, machinery in factories, components in a vehicle or sensors can all be connected to deliver insights and drive transformation. The Internet of Things can make life easier and reinvent the way people interact with the physical world.

With batteries from **VARTA Microbattery** all requirements for devices and systems are created to network and interact in IoT. We provide several battery technologies for IoT connection of a device.

Network Standards

Our batteries support the communication of the following standards:

- LoRA
- Sigfox
- NB IoT
- LPWAN
- LTE
- Wireless Mbus

Applications for VARTA Batteries in IoT Connected Devices and Systems

- Smart City / Smart Home / Smart Metering
- Wearables
- IT / Communications
- Industrial / Robotics
- Consumer
- Medical
- Automotive
- Security

Your Benefits

- Premium energy
- High-level safe products
- UL recognition
- Top performance with wide temperature range
- Superior shelf life and operational life
- High energy density
- Low self discharge
- Resistance to corrosive environments
- Patented mass production know-how
- Standard and customized solutions
- Wide range of application knowledge

Expert Service

- Optimal battery selection
- Battery Design-In Support
- Application tests
- Qualification / Approvals
- Advanced battery specification



Product Overview of Batteries for IoT Applications

RECHARGEABLE BATTERIES

Type Designation	Type No.	Voltage (V)	Capacity (mAh)	Diameter (mm)	Height (mm)	Length (mm)	Width (mm)	Weight (g)
Rechargeable Button Cells (Li-Ion) CoinPower								
Main types								
CP 1654 A3	63165	3.7	120	16.1	5.4			3.2
CP 1454 A3	63145	3.7	85	14.1	5.4			2.4
CP 1254 A3	63125	3.7	60	12.1	5.4			1.6
CP 1240 A3	63124	3.7	43	12.1	4.0			1.2
Special types								
CP 9440 A3	63094	3.7	25	9.4	4.0			0.8
CP 0854 A3	63854	3.7	25	8.4	5.4			0.9
CP 7840 A3	63074	3.7	16	7.8	4.0			0.7
Further types on request								

Rechargeable Button Cells (NiMH)

V 18 HRT powerful 85C	55802	1.2	19	11.5	2.30			0.90
V 65 HT robust 85C	55707	1.2	70	15.5	6.00			4.00
V 150 HT robust 85C	55615	1.2	150		5.85	14.1	25.6	6.00
V 600 HRT powerful 85C	55860	1.2	600		6.80	24.1	34.1	14.50

Rechargeable Cylindrical Cells (NiMH)

VH 2200 AA	55022	1.2	2250	14.5	49.5			30.5
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9V Battery (NiMH)

V 7/8 H ECO	05522	8.4	150		15.7	48.5	26.6	47.0
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PRIMARY BATTERIES

Type Designation	Type No.	Voltage (V)	Capacity (mAh)	Diameter (mm)	Height (mm)	Length (mm)	Width (mm)	Weight (g)
Lithium Cylindrical Cells (Li-MnO₂)								
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 2/3 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
CR 2/3 AH-R	6214	3.0	1600	17.0	33.5			17.0
CR AH-R	6217	3.0	2400	17.0	45.0			23.0
CR 1/2 AAH-R	6213	3.0	850	14.22	25.0			9.0

Lithium Button Cells (Li-MnO₂)

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 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	300	24.5	3.0			4.0
CR 2450	6450	3.0	620	24.5	5.0			6.2
CR 1/3 N	6131	3.0	170	11.6	10.8			3.0

power one Alkaline Cylindrical Cells

LR round series								
LR3 Micro / AAA / AM 4	4103	1.5	1200	10.5	44.5			11
LR6 Mignon / AA / AM 3	4106	1.5	2600	14.5	50.5			23
LR14 Baby / C / AM 2	4114	1.5	7800	26.0	50.0			69
LR20 Mono / D / AM 1	4120	1.5	16500	34.0	61.0			141
6LR61 E-Block / 6 AM 6	4122	9.0	550		17.5	48.5	26.5	46



Shape the future of IoT with batteries from **VARTA Microbattery**

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

VARTA Microbattery GmbH is a company of **VARTA AG**.



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Our Brands:

