

Primary Lithium Button and
Cylindrical Cells

Empowering Independence in Smart Metering

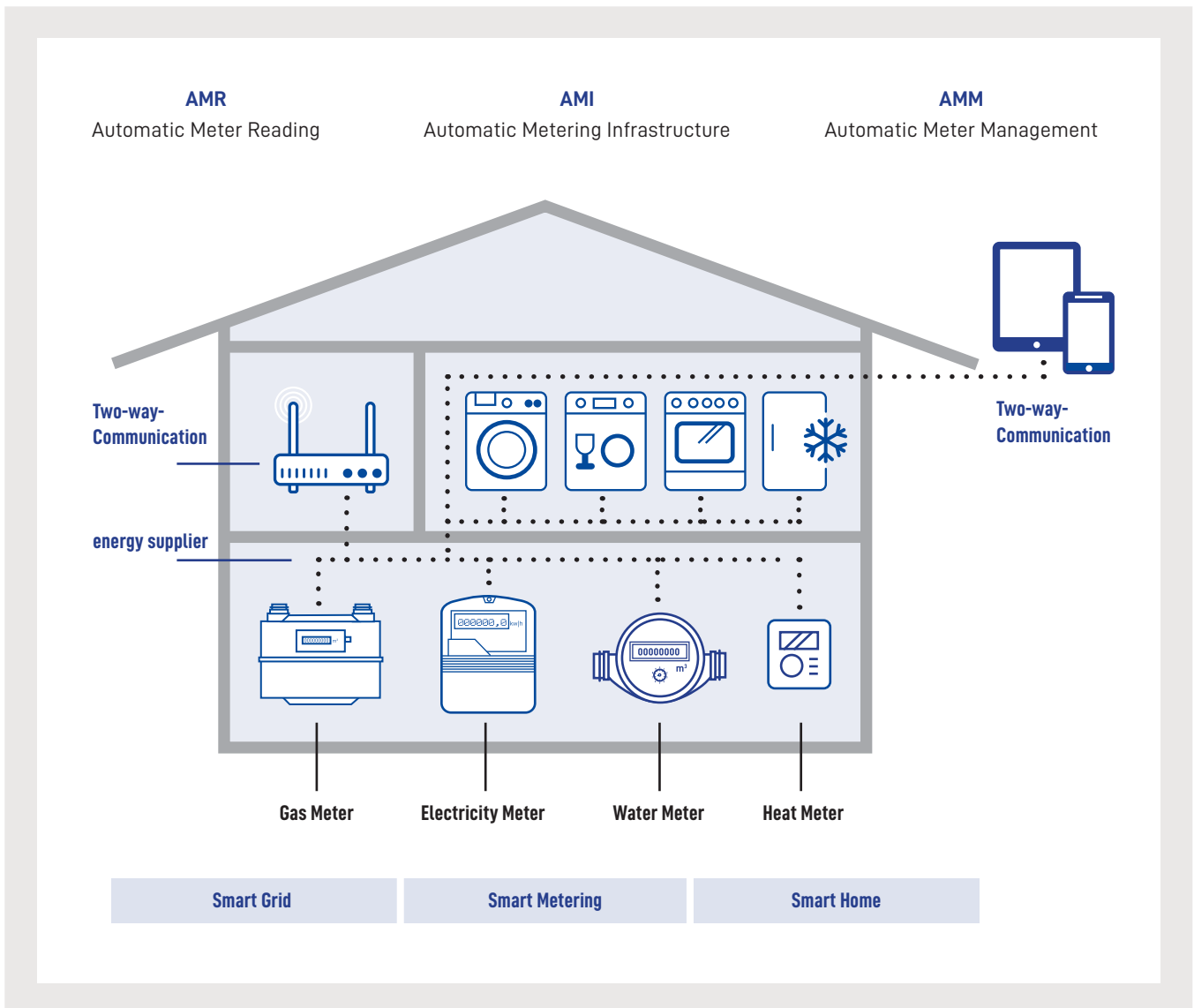


<https://www.varta-ag.com/en/industry/applications/smart-metering>



VARTA

Modern communication and metering systems require reliable energy supply.
VARTA possesses a real-time market experience of over 20 years.



VARTA batteries provide Power

for gas-, water-, heat- and electricity meters as well as in heat cost allocator and communication modules

Key features and 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
- Standard and customized solutions
- Wide range of application knowledge

VARTA offers dedicated „Design in Support“

- Optimal battery selection
- Battery Design In
- Battery specification
- Application tests
- Qualification
- Life time calculation



Our batteries support the communication of the following network standards

- LORA
- Sigfox
- NB IoT
- Wireless Mbus

Advantages of 3V MnO2 batteries

- No passivation effect
- Sufficient voltage range of MnO₂: 3,0 V down to 2,0 V
- ASICs/ICs work down to 1,8 V
- No voltage drop after long-time storage
- No toxic electrolyte
- More than 10 years shelf life

Product Overview of batteries for Smart Metering

Lithium Cylindrical Cells (Li-MnO₂)

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 AAH-R	6214	3.0	1600	17.00	33.5	17.0
CR AAH-R	6217	3.0	2400	17.00	45.0	23.0

Lithium Button Cells (Li-MnO₂)

TYPE DESIGNATION	TYPE NO.	VOLTAGE (V)	CAPACITY (mAh)	DIAMETER (mm)	HEIGHT (mm)	WEIGHT (g)
CR coin series						
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

Contacts

Headquarters

VARTA Microbattery GmbH
VARTA-Platz 1,
73479 Ellwangen, Germany
Tel +49 7961 921-0
Fax +49 7961 921-2553

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 59 60

Mainland China

VARTA Competence Center Shenzhen
EMEA Consumer Batteries (Shenzhen) Co. Ltd.
No. 1003 Forsafe Technology Building B,
13 GaoXinSouth 1st Rd. Hi-tech Industrial Park,
Nanshan District, Shenzhen City, China
Tel: +86 755 3397 4791

Japan

VARTA Microbattery Japan K.K.
Kyobashi Y'SUS Bldg,
3F.1-6-12, Kyobashi, Chuo-Ku
Tokyo 104-0031, Japan
Tel +81 3 35 67 81 71
Fax +81 3 35 67 81 75

Taiwan Region

VARTA Microbattery Pte. Ltd.
3F No.85, Xinhua 1st Road,
Neihu District Taipei City 114, Taiwan
Tel +886 2 27 90 29 92

USA

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

Hong Kong SAR of China

VARTA Microbattery Pte. Ltd.
Room 1702-3, 17/F Fullerton Centre
19 Hung to Road, Kwun Tong
Kowloon, Hongkong
Tel +852 28 98 83 73
Fax +852 28 97 76 09

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



www.varta-ag.com/youtube/li-ionµbatteries



<http://weixin.qq.com/r/OxNLUx7EkUPurVow90Yp>



www.linkedin.com/showcase/varta-microbatteries

VARTA Microbattery GmbH is a company of VARTA AG.

www.varta-ag.com