



Water



Gas



Electricity



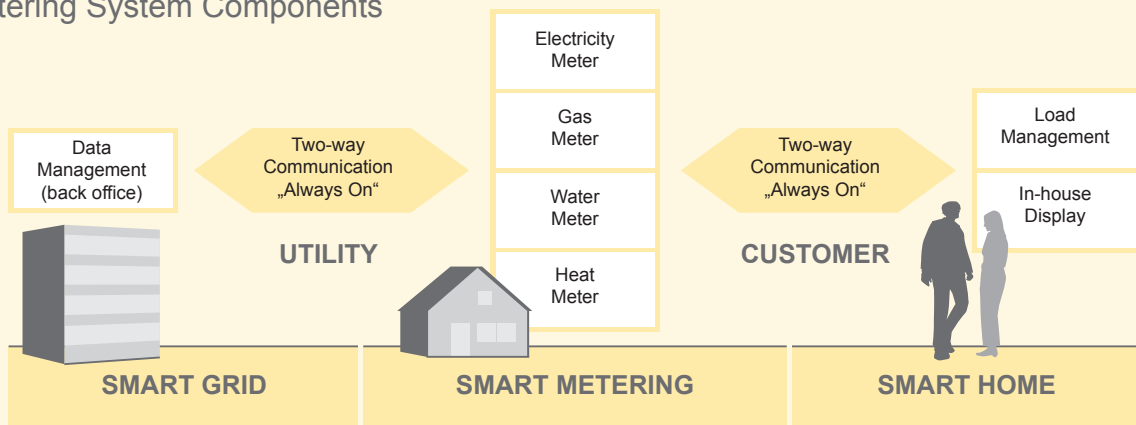
Heating

With VARTA into a Smart Future –
Batteries for Metering Applications

Capacity and reliability are the requirements for modern communication and metering systems and thus of the supply of energy: energy supply with batteries of the market leader.



Smart Metering System Components



VARTA Batteries provide Power

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

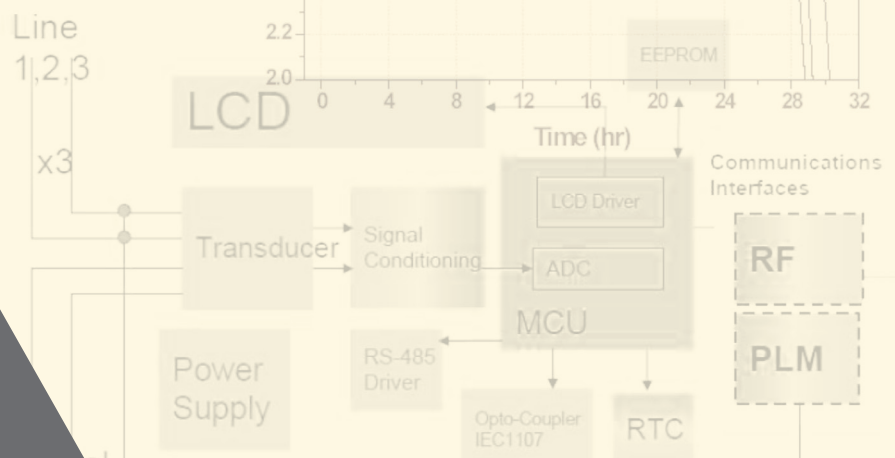
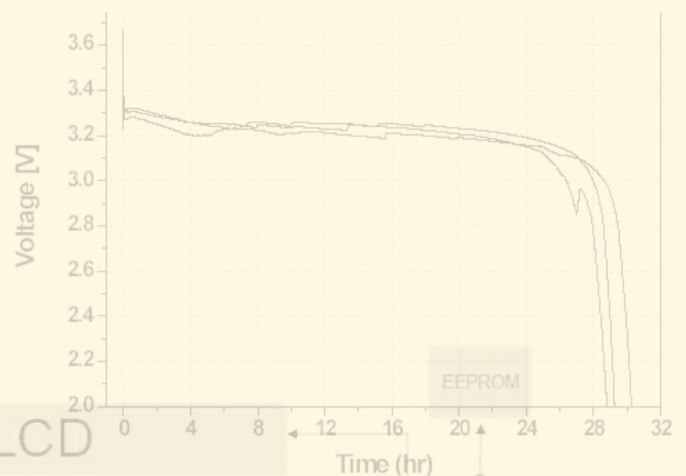
Key Features – Benefits Li-MnO₂ and Li-SOCl₂

- Low self discharge (less than 1% per year at RT)
- Wide temperature range (-55 to +85°C)
- Superior shelf life and operational life (up to 15 years and more)
- Broad capacity range from 230 - 19000 mAh
- Safety: all cells are UL recognized
- Advanced glass ceramic laser sealing technology
- High energy density
- Resistance to corrosive environments



VARTA offers dedicated “Design In Support”

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



Product Overview of Batteries for Metering Applications

| Type Designation | Type No. | Voltage (V) | Capacity (mAh) | Diameter (mm) | Height (mm) | Weight (g) | Electricity | | Gas | Water | Heat | HCA* | Integrator |
|------------------|----------|-------------|----------------|---------------|-------------|------------|-------------|------------|-----|-------|------|------|------------|
| | | | | | | | RTC MBU | Main Power | | | | | |
| CR 2032 | 6032 | 3.0 | 230 | 20.0 | 3.2 | 3.0 | ● | | | | | | |
| CR 2450 | 6450 | 3.0 | 560 | 24.5 | 5.0 | 6.2 | ● | | | | | | |
| 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 | | ● | ● | ● | | | |
| 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 | | ● | ● | ● | | | ● |

* Heat cost Allocator

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