

### Energy Metering.

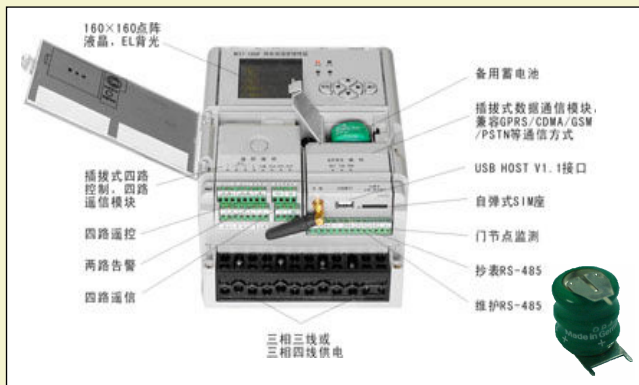
Particularly in regards to the fast growing demand for more energy and the limitation of available natural resources, intelligent energy metering will become more popular. Special advantages are: Prepaid energy, higher accuracy, remote data reading and less maintenance cost. Many meters need two separate batteries for data storage and service functions.

### Battery challenge.

Since data storage and Real time clock backup has to be done electronically, the backup battery in this application environment is a vital factor in the design of electronic metering systems. In addition there is a need to support high pulses for remote reading (e.g. Zigbee) or LCD illumination.

### Technical solution

The V65HT cell out of the robust85 family of Ni-MH button cells from VARTA Microbattery is specially designed for long lifetime in backup applications with high peak pulses for remote data reading and LCD illumination backup



Characteristics	3/V65HT Battery
Voltage level	3.6V (other voltages possible)
Cont. discharge current	130mA
Capacity	65mAh
Discharge Temperature range	-20°C to +85°C
Overcharge capability	1,95mA continuous at 45°C for 5 years
Weight	13g

### Remote Reading Backup Battery

VARTA Microbattery's Ni-MH HT batteries (robust85 family) offer rechargeable battery solutions with reliable power for supplying data in wireless networks for remote reading. Recommended configurations: 3/V65HT, 3/V150HT depending on lifetime and power demand.

- wide temperature range from -20 to +85°C
- long lifetime – up to 10 years
- high reliability – by special sealing construction with new plastic materials
- high charge retention with mass electrodes
- High overcharge capability by patented GCE electrode
- design flexibility on battery shape side-by-side or stacked
- simple charging system continuous charging possible
- UL recognized cell
- environmentally friendly Ni-MH technology

## Electricity Metering

### Remote Reading

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