

# Vehicle Tracking



## NiMH Button Cells

### Vehicle tracking

The introduction of new legislation relating to the fitment of tracking systems e.g. on all new vehicles from 2009 in Brazil, will require significant design modification to vehicles and manufacturers. Car theft and vehicle tracking requirements request reliably standalone systems that can transmit data via GSM-CDMA Modems specially with main car battery disconnected.

### Battery challenge

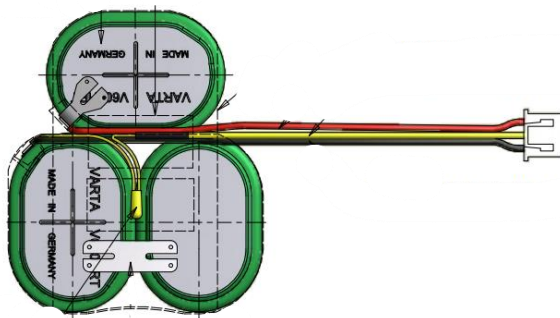
The combination of GPS and GSM system and the need to have sensor data from various positions inside the car requires an independent and powerful battery that is able to reliably work in the harsh automotive environment over the extended temperature range. Battery must be robust and rechargeable to withstand car crash and be steadily available at any time to backup sending sensitive of data to service centre.

### Technical solution:

NiMH Button Cells Technology

For more information, please visit our website:

<https://www.varta-ag.com/de/industrie/produktloesungen/nickel-metallhydrid>



Characteristics	3/V 600 HRT Battery
Voltage	3.6V (other voltages possible)
Max peak discharge current	3A
Capacity	500mAh
Discharge Temperature range	-20°C to +85°C
Overcharge capability	0.03CA continuous
Weight	45g

### Car Tracking Battery

VARTA Microbattery's NiMH HRT batteries (powerful85 family) offer rechargeable battery solutions with reliable power for supplying GPS and GSM Module in case of theft of car for tracking and locationing of vehicle. Recommended configurations: 3/V 600 HRT, 4/V 600 HRT depending on temperature and power demand.

- wide temperature range from -20° C to +85° C
- long lifetime – up to 10 years
- high reliability – by special sealing construction with new plastic materials
- high current capability with stacked electrodes
- design flexibility on voltage level from 1.2V to 12V
- design flexibility on battery shape side-by-side or stacked
- simple charging system continuous charging possible
- UL recognized cell
- ROHS compatible
- Halogen and Perchlorate free
- environmentally friendly NiMH technology