

Car Alarm Battery

Application Note



Backup Battery for Car Alarm Siren

Car alarm systems are essential accessories to most of the **medium and high class vehicles** due to increase of criminal energy on to open and steal these precious property. For alarm sirens in the car the **reliability** of the system and the secure **availability in case of attack** is an essential feature for the owner. This requires reliable backup batteries for sensible alarm operations under these special automotive ambient conditions.

Battery challenge.

The main challenges for the battery are the **continuously available, fully charged battery at and extended ambient temperature, leakagefree consistency in performance, up to 10 years of lifetime, high reliability, easy charging, and low service effort**. New generation of Ni-MH HT button cell batteries offer **high resistance to extended ambient temperature stress** due to the **special sealing construction with new plastic materials** while the patented GCE electrode design gives high **overcharge stability** for simple charging solutions.

Technical solution

The V 150 HT cell with a capacity of 150 mAh out of the robust85 family of Ni-MH button cells, is specially designed for extended automotive conditions from -20°C up to +85°C.



Characteristics	6/V 150 HT
Voltage level	7.2 V (other voltages possible)
Cont. discharge current	280 mA cont., 1.5 A peak
Capacity	150 mAh
Discharge Temperature range	-20°C to +85°C
Overcharge capability	4,2 mA cont. at 45°C for 3 years
Weight per cell	36 g

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VARTA Microbattery's Ni-MH V 150 HT batteries (robust85 family) offer rechargeable battery solutions with reliable power for supplying car alarm siren solutions for reliable use in automotive environment.

<http://www.varta-microbattery.com>

- wide temperature range from -20 to +85° C
- long lifetime – up to 6 years and above
- high reliability – by special sealing construction with new plastic materials
- Extended shelf life by the use of robust mass type electrode design
- High overcharge capability by patented GCE electrode
- design flexibility on battery shape side-by-side or stacked, SMD mounting or wire connector
- simple charging system continuous charging possible
- ROHS compatible
- Halogen and Perchlorate free
- UL recognized cell
- environmentally friendly Ni-MH technology