

**RAID Server backup.**

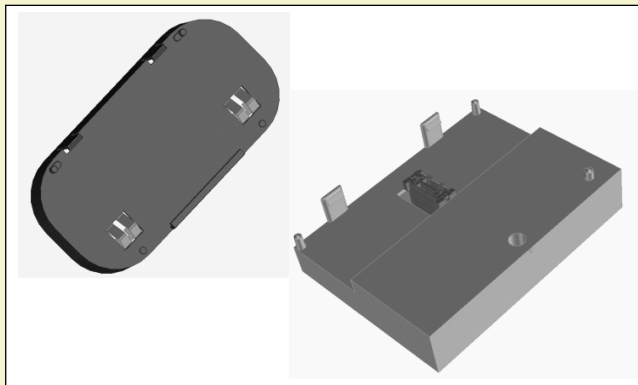
RAID (redundant array of independent disks) servers stand for safety critical data storage schemes that divide and replicate data among multiple hard disk drives with the target to improve **data reliability** and **I/O performance**. A battery is protecting the write cache, mostly solving the risk of data loss in case of unexpected power down.

**Battery challenge.**

The function of the system is heavily influenced by the availability and the reliability of the backup battery. Important features for this battery are **slim** form factor due to server board architecture, **charge efficiency** at extended ambient temperature from 45 to 55 ° C, reliable energy supply for a **backup time of 48-72h**, high **reliability** for a secure **life expectancy up to 3 years**.

**Technical solution**

The V 500 H(R)T as well as new V 650 HRT cell out of the powerful85 family of Ni-MH button cells from VARTA Microbattery is specially designed for extended reliability and high charge and discharge currents at extended temperature requirements.



Characteristics	4/V 500 H(R)T Battery
Voltage level	4.8V (other voltages possible)
Capacity	500mAh
Discharge Temperature range	45° C to +55° C
Overcharge capability	0.03CA continuous
Cell thickness	6.6mm
Weight	56g

**Server Battery**

VARTA Microbattery's Ni-MH H(R)T batteries (powerful85 family) offer rechargeable battery solutions with reliable power for supplying backup power to RAID server systems up to 72h at average ambient temperature of 45-55degC.

[http://www.varta-microbattery.com/en/oempages/rech\\_ni-mh\\_button/rech\\_ni-mh\\_button\\_en.php](http://www.varta-microbattery.com/en/oempages/rech_ni-mh_button/rech_ni-mh_button_en.php)

- wide temperature range -20 to +85° C
- up to 50% increased charge efficiency at extended temperature
- high reliability – by special sealing construction with new synthetic sealing materials
- high current capability
- design flexibility on battery shape side-by-side or stacked
- simple charging system, continuous trickle charging possible with proprietary charging algorithm
- ROHS compatible
- Halogen and Perchlorate free
- UL recognized cell
- environmentally friendly Ni-MH technology

Server-Backup-Battery

VARTA Microbattery GmbH  
 Daimlerstraße 1  
 73479 Ellwangen/Germany  
 Tel +49 79 61 921-606

[www.varta-microbattery.com](http://www.varta-microbattery.com)