

Memory Backup for rugged mobile devices



NiMH Button Cells

Memory Backup Battery for Rugged Mobile Designs

New generation of robust and trusted portable wireless computing applications require independent and continuously available data memory independent from the main battery of the system. This memory requires a battery to backup data during any unforeseeable power supply interruption to store the RAM data on hard disc.

Battery challenge

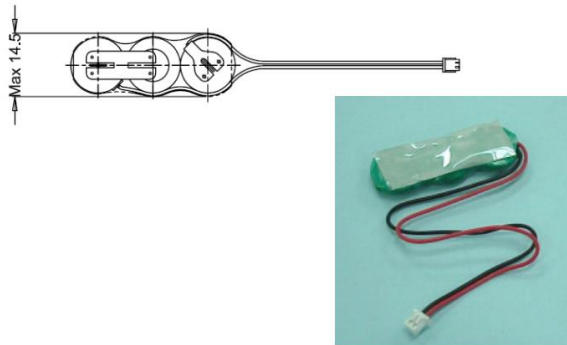
The main challenges for the battery are ability to handle high discharge current, consistency in performance, 5-7 years of lifetime in the application, reliability, easy charging, and low service effort. New generation of NiMH batteries for Memory backup offer low internal resistance for high peak current loads and high overcharge stability for simple charging solutions. The low self discharge and high deep discharge stability of the cell fulfils the demand for extended shelf life specially for solid high tech consumer products.

For more information, please visit our website:

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

Technical solution:

NiMH Button Cells Technology



Characteristics	3/V 18 HRT
Voltage	3.6V (other voltages possible)
Max discharge current	100mA
Capacity	19mAh
Discharge Temperature range	-20°C to +80°C
Overcharge capability	0.6mA continuous
Weight per cell	0.9g
Cell Size	Ø 11.5mm x height 2.3mm

Memory Backup Battery

VARTA Microbattery's NiMH V 18 HRT batteries (powerful family) offer rechargeable battery solutions with reliable power for supplying new generation of RTC chip solutions for robust and trusted mobile applications.

- wide temperature range from -20 to +80°C
- long lifetime – up to 6 years and above
- high reliability
- high current capability up to 100mA continuous
- design flexibility on voltage level from 1.2V to 7.2V
- design flexibility on battery shape side-by-side or stacked, SMD mounting or wire connector
- simple charging system continuous charging possible
- UL recognized cell
- environmentally friendly NiMH technology