

# Backup Battery for Timer



## NiMH Button Cells

### Backup Battery for Timer

Electronic timers in industrial applications are facing extended temperature in closed electronic control cabinets with increasing number of heat generating components. This requires reliable backup batteries for sensible switching operations at extended average ambient temperature of about 40°C.

### Battery challenge

The main challenges for the battery are the charge efficiency at higher ambient temperature, leakage-free 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 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:

NiMH Button Cells Technology

For more information, please visit our website:

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



Characteristics	V 65 HT
Voltage	1.2V (other voltages possible)
Cont. discharge current	130mA
Capacity	70mAh
Discharge Temperature range	-20°C to +85°C
Overcharge capability	1.9mA continuous at 45°C for 5 years
Weight per cell	4.0g

### Timer Battery

VARTA Microbattery's NiMH V 65 HT batteries (robust85 family) offer rechargeable battery solutions with reliable power for supplying timer back-up solutions for robust use in industrial applications.

- 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 NiMH technology