



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 degC.

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 Ni-MH 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

The V 65 HT cell with a capacity of 65 mAh out of the robust85 family of Ni-MH button cells, is specially designed for extended back-up times in extended industrial conditions by patented GCE Electrode and special sealing construction.



Characteristics	V 65 HT
Voltage level	1.2 V (other voltages possible)
Cont. discharge current	130 mA
Capacity	65 mAh
Discharge Temperature range	-20° C to +85° C
Overcharge capability	1,95 mA continuous at 45° C for 5 years
Weight per cell	4,5 g

Timer Battery

VARTA Microbattery's Ni-MH 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.

http://www.varta-microbattery.com/en/oempages/rech_ni-mh_button/rech_ni-mh_button_en.php

- 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

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

www.varta-microbattery.com