# VHT AA High Temperature Series

ARTS Energy's VHT high temperature Ni-MH series are perfectly suited to professional applications requiring a battery with an exceptional robustness. It is designed to operate in very demanding environment (from - 40°C to + 85°C).

The VHT AA can be fast charged with a maximum current of C/3, and offers an exceptional life duration. The VHT AA delivers a huge number of full or partial cycles: 2000 full cycles and even 5000 cycles with 50% DOD (Depth Of Discharge).

To meet customers' requirements, ARTS Energy provides custom-designed and standardized battery packs.

For your battery design and system needs, please contact ARTS Energy's engineers.

### **Applications**

- Photovoltaic systems
- Renewable energy storage
- Tracking
- Underwater applications
- Robotics
- Professional electronics

#### Main advantages

- Very large temperature range (- 40°C to + 85°C)
- Excellent charge and discharge efficiency at very low and very high temperature
- Fast charge (3h)
- Very high cycle life
- Superior robustness

## Technology

- Foam positive electrode
- Plastic bonded metal-hydride negative electrode



\* Peak duration: 0.3 second - final discharge voltage 0.65 volt/cell. Below 0°C, a cut-off voltage in charge is required (Consult ARTS Energy



Advanced Rechargeable Technology and Solutions



# Temperature range in discharge

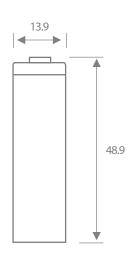
-  $40^{\circ}$ C to +  $85^{\circ}$ C (C/10 discharge current) -  $20^{\circ}$ C to +  $85^{\circ}$ C (C/4 discharge current)

### Storage

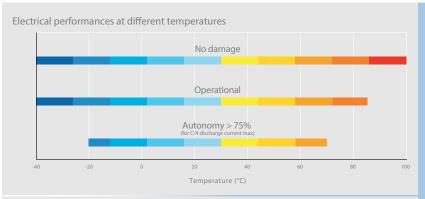
Recommended:  $+5^{\circ}C$  to  $+25^{\circ}C$ Relative humidity:  $65 \pm 5 \%$ 

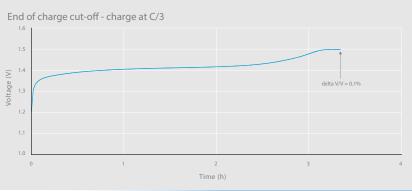
# **Typical performances**

For graphs shown, C is the  $IEC_{5}$  capacity.

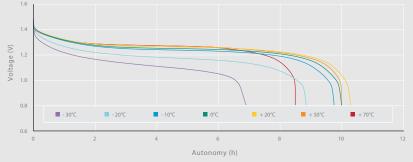


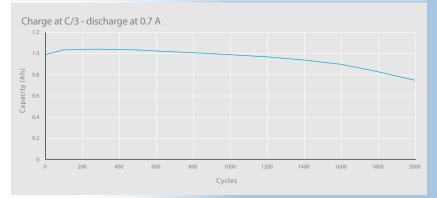
Dimensions are in mm.











Data are given for single cells. Please consult ARTS Energy for utilization of cell outside this specification.

Data in this document are subject to change without notice and become contractual only after written confirmation by ARTS Energy.



10, rue Ampère Zone Industrielle 16440 Nersac, France Tél. +33(0)5 45 90 35 50 www.arts-energy.com