VHT AA 800

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 800 can be fast charged with a maximum current of C/3, and offers an exceptional life duration. The VHT AA 800 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



Electrical characteristics			
Nominal voltage (V)			1
Typical capacity (mAh)*			84
IEC minimum capacity (mAh)*			80
IEC designation			HRMT 15/4
Impedance at 1000 Hz (m Ω)			1
* Charge 16 h at C/10, discharge at C/5.			
Dimensions			
Diameter (mm)			13.9 ± 0
Height (mm)			48.9 ± 0
Top projection (mm)			0.8 ± 0
Top flat area diameter (mm)			5
Weight (g)			2
Dimensions are given for bare cells.			
Charge conditions Rate	Time (h)	Temp. (℃)	Charge current (ma
Fast*	3	- 40 to + 85	27
* Charge termination required.			
Maximum discharge current			
Continuous (A) at + 20°C			2
Peak (A) at + 20°C*			2
* Peak duration: 0.3 second - final discharge voltage (Below 0°C, a cut-off voltage in charge is required (Cor			



Temperature range in discharge

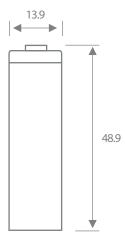
- 40°C to + 85°C (C/10 discharge current)
- -20°C to +85°C (C/4 discharge current)

Storage

Recommended: + 5°C to + 25°C Relative humidity: 65 \pm 5 %

Typical performances

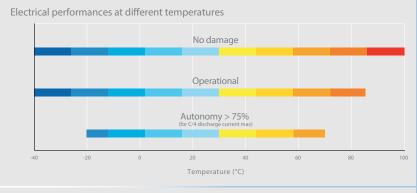
For graphs shown, C is the IEC_s capacity.

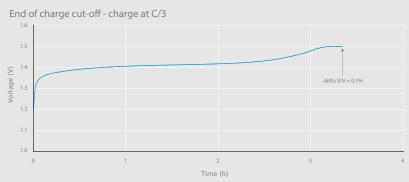


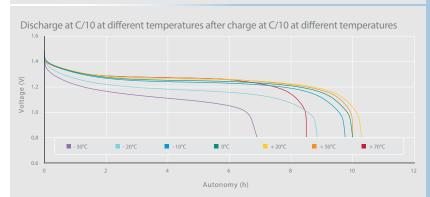
Dimensions are in mm.

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.











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