Ni-MH VH AA 1700

ARTS Energy's VH super high energy Ni-MH series are perfectly suited for applications requiring high power, high energy density and robustness. Additionnaly, the VH series can be fast charged (1C).

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

For your battery design and system needs, please **contact ARTS Energy**.

ELECTRICAL CHARACTERISTICS	
• Nominal voltage (V)	1.2
• Typical capacity (mAh)*	1550
• IEC minimum capacity (mAh)*	1650
• IEC designation	HRM 15/49
• Impedance at 1000 Hz (mΩ)	< 20

** Charge 16 h at C/10, discharge at C/5.*

DIMENSIONS	
• Diameter (mm)	13.8 ± 0.1
• Height (mm)	49.5 ± 0.3
• Top flat area diameter (mm)	7.0 ± 0.3
• Weight (g)	27

Dimensions are given for bare cells.

CHARGE CONDITIONS	Temp. (°C)	Current
• Fast	0 to +40	1C
• Standard	0 to +40	C/10

End of Fast charge cut-off is requested: -dV or dT°C/dt

DISCHARGE CONDITIONS	Temp. (°C)	Current
	0 to +40	3C max
	-10 to +40	1C max
	-20 to +40	C/4 max
	-40 to +40	C/20 max

CYCLING CONDITIONS	
• Fast charge 1C with (DT/Dt) cu-off. Discharge 1C	500 cycles

APPLICATIONS

- Robots / Unmanned Vehicles
- Medical
- Devices used or carried inside planes
- Professional electronics

MAIN BENEFITS

- High energy density
- High power
- Superior robustness
- Safe, no transportation constraints

TECHNOLOGY

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

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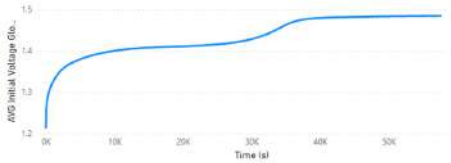
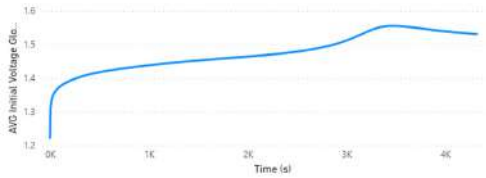
Performances +20°C

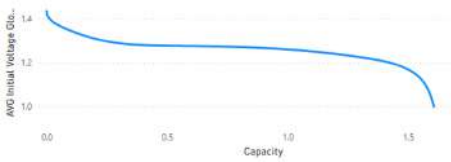
C/10



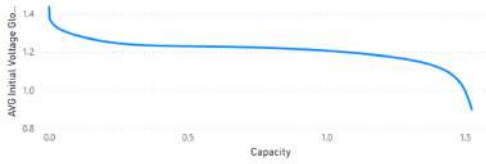
C



C/5



C

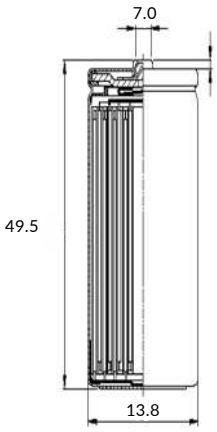


STORAGE

Recommended: + 5°C to + 25°C

Relative humidity: 65 ± 5 %

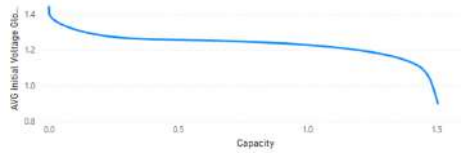
TYPICAL DIMENSIONS



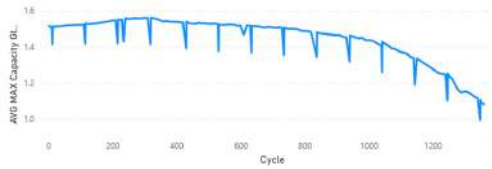
Typical dimensions (mm). Without tube.

Temperature Current Performances

C +40°C



Cycling performances



The operation of the battery must strictly be in accordance with ARTS Energy technical recommendations, to obtain the performances stated by ARTS Energy.

Data is given for single cells. Please consult ARTS Energy for utilisation of cells outside specification.

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

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