

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).

The VH AA 1500 contains aqueous electrolyte, an important safety feature as it is non-flammable.

This is key reason why the VH AA 1500 are not considered as a dangerous goods and can be transported by air without any transportation constraints (no homologation tests for transportations, no restrictions for packaging and transportation).

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

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

№ 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-hydride negative electrode

ELECTRICAL CHARACTERISTICS Nominal voltage (V)	NEXTS NEXTS VH AA 1500 HRM 15/49 12V - 14Ah	1.2
Typical capacity (mAh)*		1500
IEC minimum capacity (mAh)*		1400
IEC designation		HRM 15/49
Impedance at 1000 Hz (mΩ)		< 20
* Charge 16 h at C/10, discharge at C/5.		
DIMENSIONS		
Diameter (mm)		13.9 ± 0.1
Height (mm)		48.9 ± 0.3
Top projection (mm)		0.8 ± 0.2
Top flat area diameter (mm)		4.0 ± 0.2
Weight (g) Dimensions are given for bare cells.		26
CHARGE CONDITIONS	Temp. (°C)	Current
Fast	0 to + 40	1C max
Topping (after fast charge)	0 to + 40	
Trickle (after topping)	0 to + 40	
Charge below 0°C	-40 to 0	Consult ARTS Energy
End of Fast charge cut-off: dT°C/dt recomme		0,
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	Cycling	Life duration
	Full cycles (100% DOD)	> 500 cycles

NI-MH

VH AA 1500 Super High Energy series

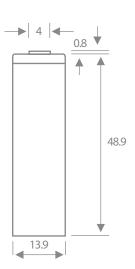
VH AA 1500

Super High Energy series

STORAGE

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

前 TYPICAL DIMENSIONS



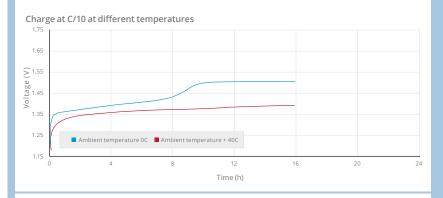
Typical dimensions (mm). Without tube.

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

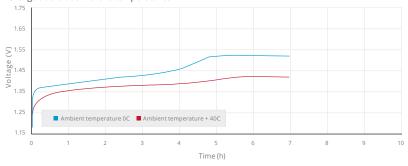
Data is given for single cells. Please consult ARTS Energy for utilisation of cells outside specification.

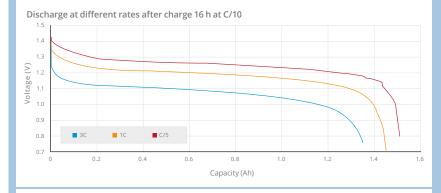
Data in this document is subject to change without notice and become contractual only after written confirmation by ARTS Energy.

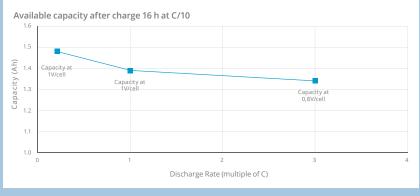
For graphs shown, C is the IEC_s capacity.













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