

# VH AA 1500

## Super High Energy series

ARTS Energy's VH Super High energy Ni-MH series are very well adapted for any applications where cycling and energy are required (from private mobile radio to consumer electronic products).

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

- Private mobile radios
- Personal care products
- Professional electronic devices
- Handheld terminals

### Main advantages

- Super high capacity
- Fast charge / Fast discharge
- Extended cycle life
- Improved storage ability
- Environmentally preferred

### Technology

- Foam positive electrode
- Metal-hydride negative electrode

### Temperature range in discharge

0°C to +40°C

### Storage

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



Electrical characteristics			
Nominal voltage (V)	1.2		
Typical capacity (mAh)*	1500		
IEC minimum capacity (mAh)*	1400		
IEC designation	HRM 15/49		
Impedance at 1000 Hz (mΩ)	<20		
<small>* Charge 16 h at C/10, discharge at C/5.</small>			
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)	26		
<small>Dimensions are given for bare cells.</small>			
Charge conditions Rate	Time (h)	Temp. (°C)	Charge current (mA)
Fast*	~ 1	0 to + 35	up to 1400
Quick	~ 4-5	0 to + 40	up to 400
Standard	16	0 to + 40	140
Trickle**			35
<small>* Fast charge must be controlled: end of charge cut-off is recommended, preferably the -dV method, 5 mV/cell. ** Trickle charge follows fast charge.</small>			
Maximum discharge current			
Continuous (A) at + 20°C	4.2		

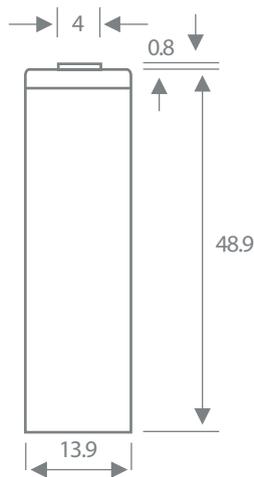


Advanced Rechargeable Technology and Solutions



## Typical performances

For graphs shown, C is the IEC<sub>5</sub> capacity.

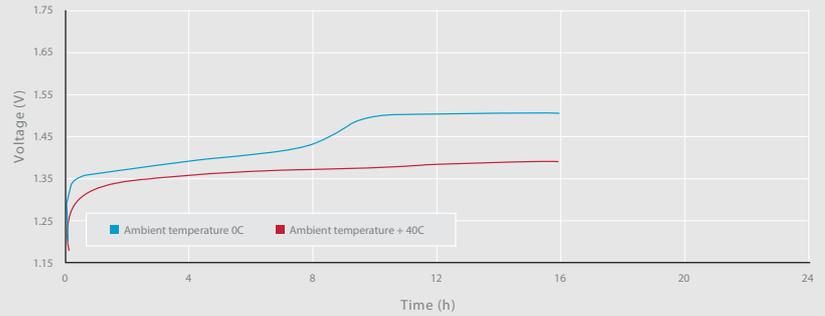


Dimensions are in mm.

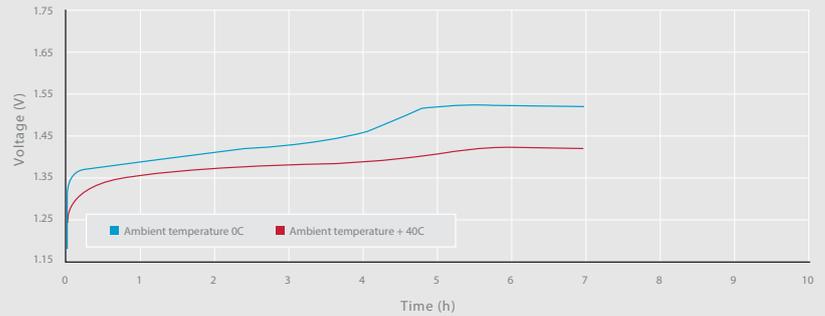
Data are given for single cells. Please consult ARTS Energy for utilization of cell outside this specification.

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

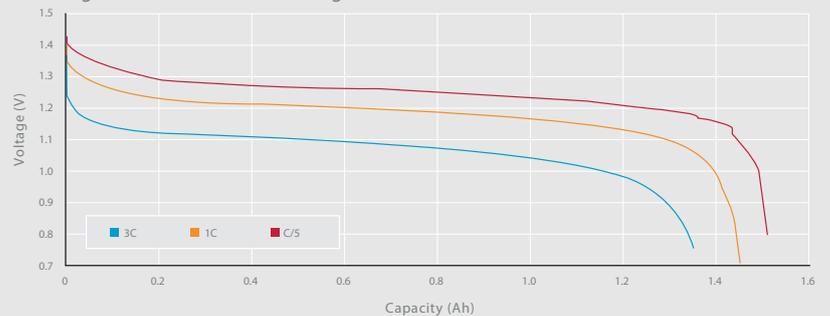
Charge at C/10 at different temperatures



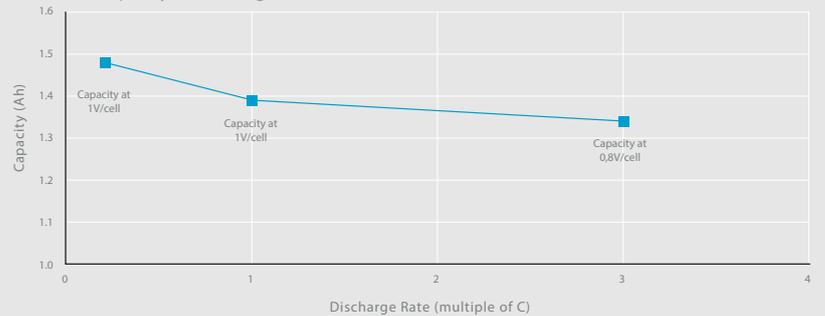
Charge at C/5 at different temperatures



Discharge at different rates after charge 16 h at C/10



Available capacity after charge 16 h at C/10



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