

VH AA 1700

Super High Energy series

ARTS Energy's VH super high energy Ni-MH series are perfectly suited to any applications where high energy is required, such as digital still cameras, personal care, home appliances.

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

- Digital camera
- Home appliances
- Personal care products
- Professional electronic devices

Main advantages

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

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: 40 ± 5 %



Electrical characteristics	
Nominal voltage (V)	1.2
Typical capacity (mAh)*	1700
IEC minimum capacity (mAh)*	1600
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)	49.9 ± 0.3
Top projection (mm)	1.7 ± 0.2
Top flat area diameter (mm)	4.0 ± 0.2
Weight (g)	26

Dimensions are given for bare cells.

Charge conditions Rate	Time (h)	Temp. (°C)	Charge current (mA)
Fast	~ 1	0 to + 35	up to 1600
Quick	~ 4-5	0 to + 40	up to 500
Standard	16	0 to + 40	160
Trickle*			40

End of charge cut-off is requested: -dV method, 5 mV/cell.

* Trickle charge follows fast charge.

Maximum discharge current	
Continuous (A) at + 20°C	5.1
Peak (A) at + 20°C*	10

* Peak duration: <1s - final discharge voltage 0.6 volt/cell.

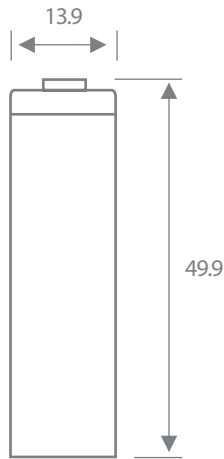


Advanced Rechargeable Technology and Solutions



Typical performances

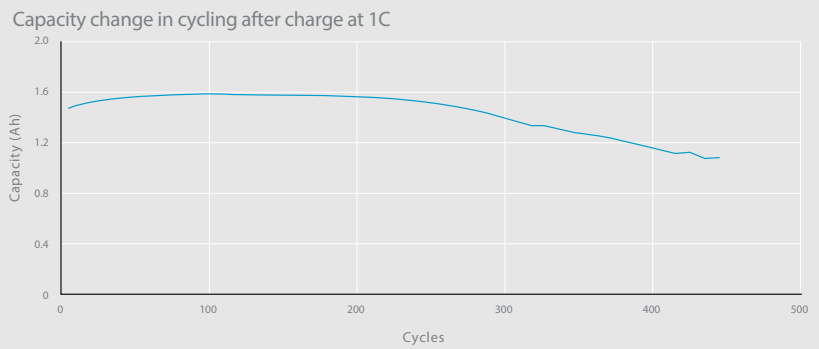
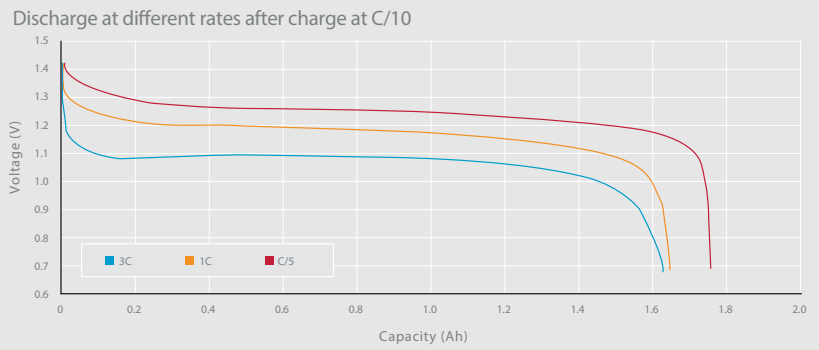
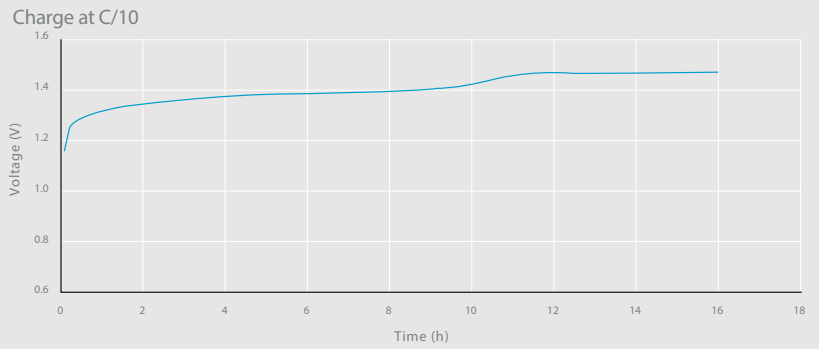
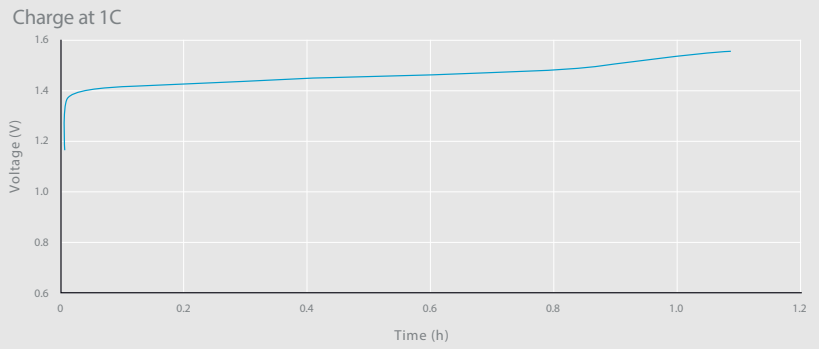
For graphs shown, C is the IEC₅ capacity.



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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