

ARTS ENERGY

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.

The VHT Cs has been designed to offer a very long life duration in a wide range of temperature.

In ELU the VHT Cs will offer more than 4 years life at 40°C permanent temperature (T type cell).

In back up applications, the VHT Cs will offer 5 to 10 years life.

In cycling application (solar, peak shaving), the VHT Cs will offer 5 to 10 years life in an environment from -40°C to +85°C. It delivers for example, 5000 cycles at 50% DOD.

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

For applications below -20°C and above +60°C, please contact ARTS Energy to confirm the optimum battery design, and to agree the usage profiles.

APPLICATIONS

- Emergency lighting (ELU)
- Back-up systems
- Peak shaving applications (money saving)
- Professional electronics
- Solar

MAIN BENEFITS

- Very high cycle life
- Exceptional temperature range
- Superior robustness

TECHNOLOGY

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



ELECTRICAL CHARACTERISTICS

Nominal voltage (V)	1.2
Typical capacity (mAh)*	2200
IEC minimum capacity (mAh)*	2000
IEC designation	HRMT 23/43
Impedance at 1000 Hz (mΩ)	5

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

DIMENSIONS

Diameter (mm)	22.0 ± 0.05
Height (mm)	42.7 ± 0.2
Top projection (mm)	0.8 ± 0.2
Top flat area diameter (mm)	9.0
Weight (g)	48

Dimensions are given for bare cells.

CHARGE CONDITIONS

	Temp. (°C)	Current
ELU applications	0 to +40	Intermittent permanent, consult ARTS Energy
Back up applications	-20 to +85	Consult ARTS Energy
Solar applications	-40 to +85	C/3 max

DISCHARGE CONDITIONS

	Temp. (°C)	Current
	+20 to +85	3C max
	0 to +85	C/2 max
	-20 to +85	C/5 max
	-40 to +85	C/20 max

CYCLING CONDITIONS

	Cycling	Life duration
ELU applications	1 discharge/month max	4 years
Back up applications	1 discharge/day max	5 to 10 years
Solar applications	1 discharge/day max	5 to 10 years

NI-MH

VHT Cs
High Temperature Series

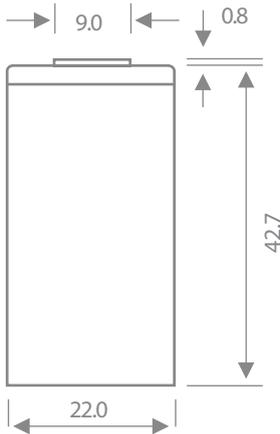
VHT Cs

High Temperature Series

STORAGE

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

TYPICAL DIMENSIONS



Typical dimensions (mm). Without tube.

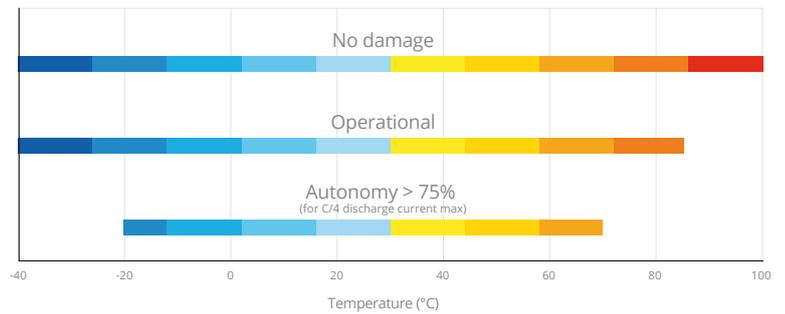
The operation of the battery must strictly be in accordance with ARTS Energy technical recommendations, to obtain the performances stated by ARTS Energy.

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

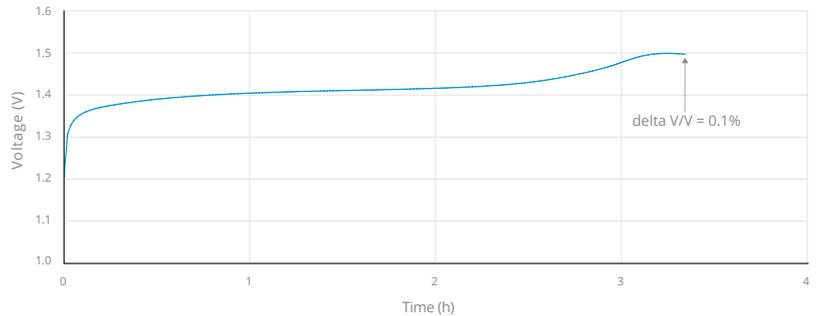
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For graphs shown, C is the IEC₅ capacity.

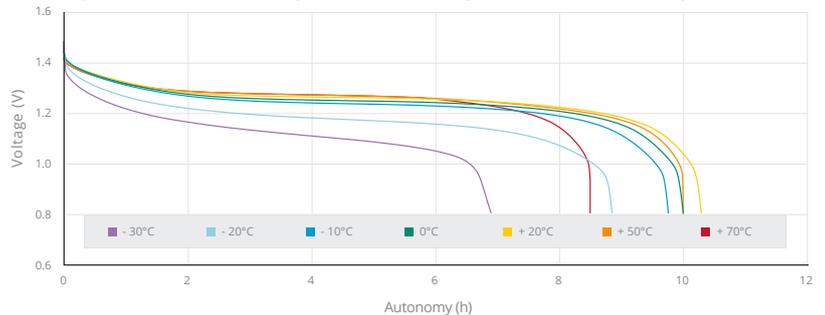
Electrical performances at different temperatures



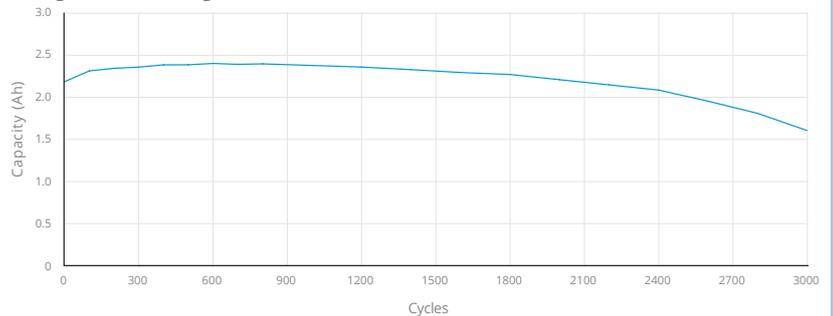
End of charge cut-off - charge at C/3



Discharge at C/10 at different temperatures after charge at C/10 at different temperatures



Charge at C/3 - discharge at 1 A



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