Ni-MH VHT F 11500

ARTS Energy's VHT high temperature Ni-MH series are perfectly suited to professional applications requiring a battery with an exceptionnal robustness. It is designed to operate in very demanding environment.

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)*	11500
IEC minimum capacity (mAh)*	11300
IEC designation	HRMT 33/91
Impedance at 1000 Hz (mΩ)	5

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

DIMENSIONS	
Diameter (mm)	32.15 ± 0.1
Height (mm)	88.8 ± 0.4
Top flat area diameter (mm)	5.6
Weight (g)	215

Dimensions are given for bare cells.

CHARGE CONDITIONS	Temp. (°C)	Current
ELU applications	0 to +40	Intermittent
Back up applications	-20 to +85	C/3 max
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

APPLICATIONS

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

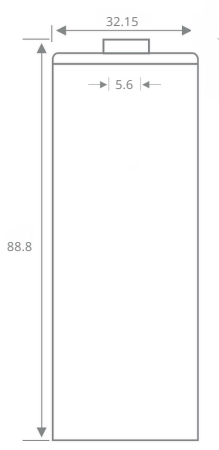
MAIN BENEFITS

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

TECHNOLOGY

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

TYPICAL DIMENSIONS



Typical dimensions (mm). Without tube.

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

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

In back up applications, the VHT F will offer 5 to 10 years life.
In cycling application (solar, peak shaving), the VHT F 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.

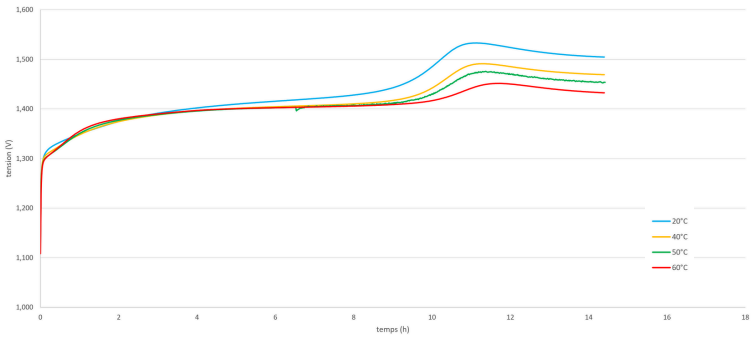
STORAGE

Recommended: + 5°C to + 25°C

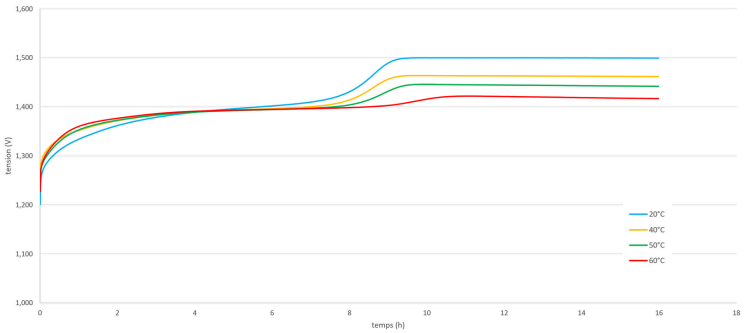
Relative humidity: 65 ± 5 %

Performances

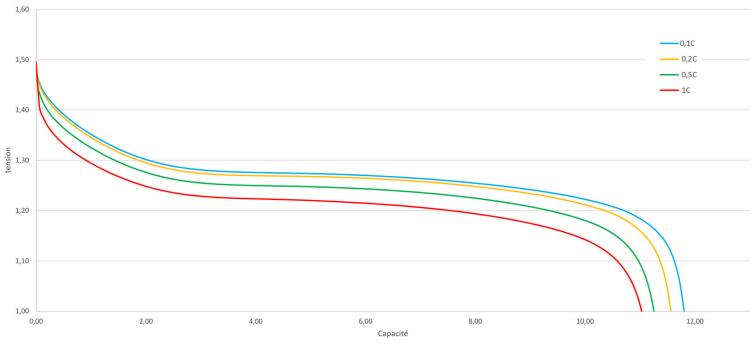
Charge
C/3



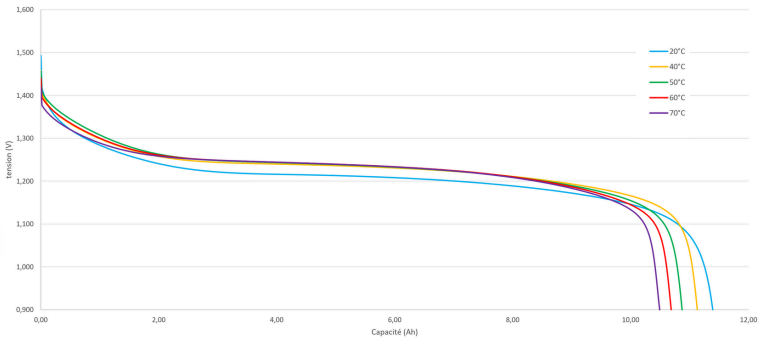
Charge
C/10



Discharge
20°C

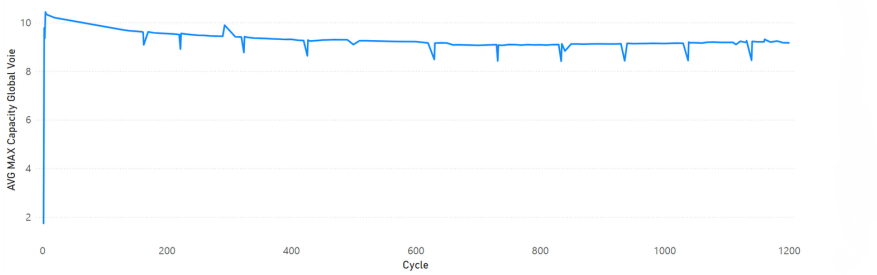


Discharge
1C



Cycling

@40°C 100% DOD



The operation of the battery must strictly be in accordance with ARTS Energy technical recommendations, to obtain theperformances 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 confirmationby ARTS Energy

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