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.

ENERGL

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

№ 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 CHARACTERISTIC | :s | |
|--|-----------------------|---------------------|
| Nominal voltage (V) | | 1.2 |
| Typical capacity (mAh)* | | 11000 |
| IEC minimum capacity (mAh)* | | 10000 |
| IEC designation | | HRMT 33/91 |
| Impedance at 1000 Hz (m Ω) | | 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 projection (mm) | | 1.4 ± 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 | Intermitten |
| Back up applications | -20 to +85 | Consult ARTS Energy |
| Solar applications | -40 to +85 | C/3 max |
| DISCHARGE CONDITIONS | Temp. (°C) | Current |
| | 0 to +85 | C/2 max |
| | -20 to +85 | C/5 max |
| | -40 to +85 | C/20 max |
| CYCLING CONDITIONS | Cycling | Life duratior |
| 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 F

HRMT 33/91

1.2V - 10Ah

NI-MH

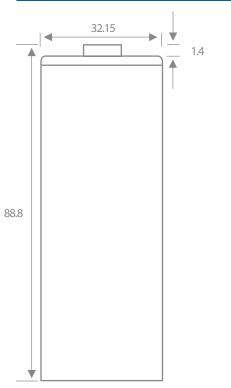
VHT F High Temperature Series

VHT F High Temperature Series

STORAGE

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

ណ៍ TYPICAL DIMENSIONS



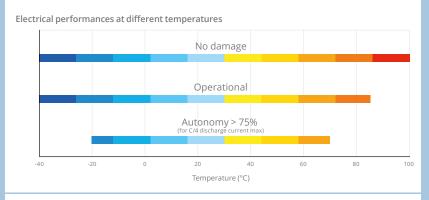
Typical dimensions (mm). Without tube.

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

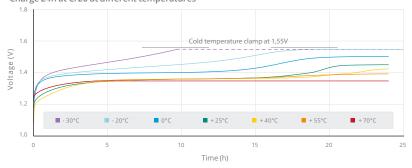
Data is given for single cells. Please consult ARTS Energy for utilisation of cells outside specification.

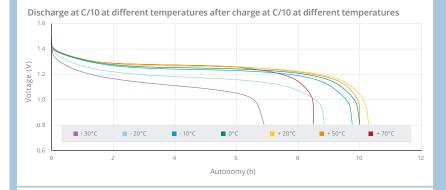
Data in this document is subject to change without notice and become contractual only after written confirmation by ARTS Energy.

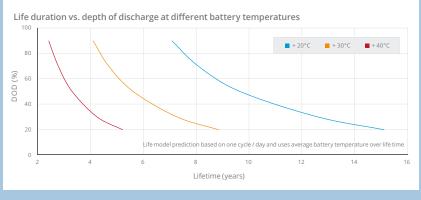
For graphs shown, C is the IEC_s capacity



Charge 24h at C/20 at different temperatures









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Doc No.: 013-B-0417 - Edition: April 2017 ARTS Energy SAS. Stock capital 971.002 RCS Angoulême 792 635 013 Conception in FR by Alain Bruneaud Création



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