

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 exceptional 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

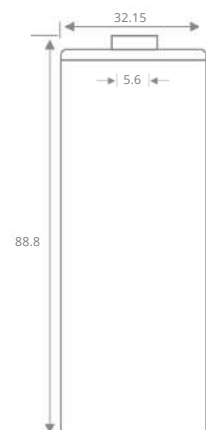
MAIN BENEFITS

- 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.

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.



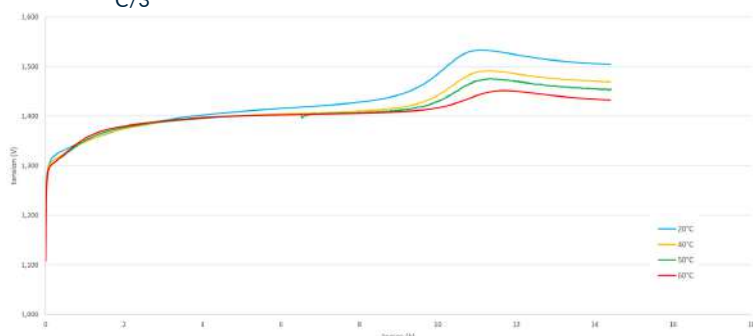
STORAGE

Recommended: + 5°C to + 25°C

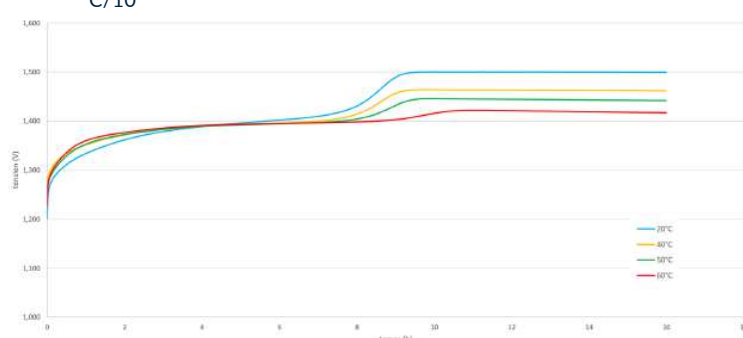
Relative humidity: 65 ± 5 %

Performances

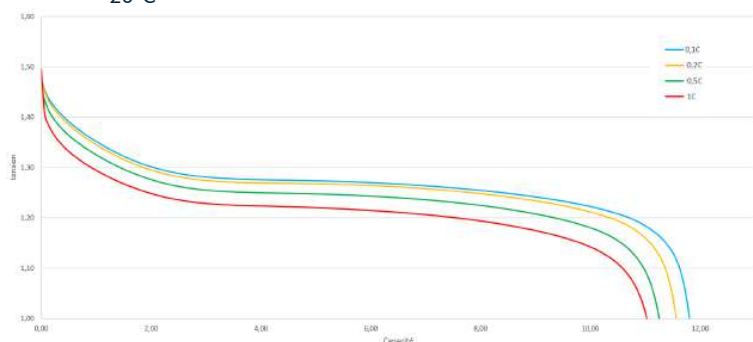
Charge
C/3



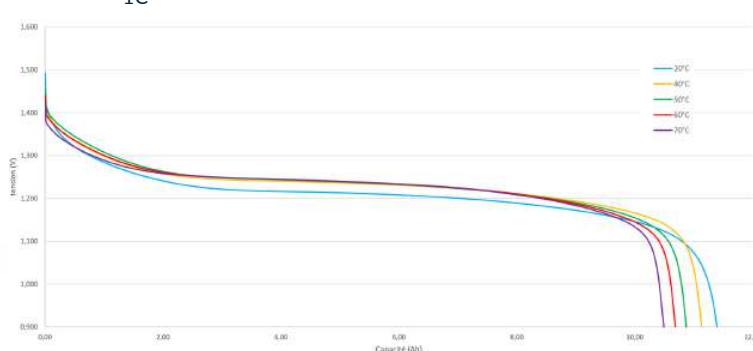
Charge
C/10



Discharge
20°C



Discharge
1C



Cycling
@40°C 100% DOD

