VHT D U

High Temperature Series

ARTS Energy's VHT U high temperature Ni-MH series are perfectly suited to emergency lighting and power back-up requirements. With an intermittent charging regime, the design life is 4 years in high temperature environments (up + 55°C).

The VHT D U cell is designed to accept intermittent charge in a large range of temperature (- 20° C to + 55° C).

The VHT D U allows a significant reduction in the energy consumption of luminaires.

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

- Emergency lighting
- Back-up systems

Main advantages

- Excellent charge efficiency at high temperatures
- Intermittent charge
- Superior storage retention

Technology

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



			Electrical characteristics
1.2			Nominal voltage (V)
6400			Typical capacity (mAh)*
6000			IEC minimum capacity (mAh)*
HRMU 33/62			IEC designation
4			Impedance at 1000 Hz (mΩ)
			* Charge 16 h at C/10, discharge at C/5.
			Dimensions
32.15 ± 0.1			Diameter (mm)
58.2 ± 0.4			Height (mm)
1.4 ± 0.4			Top projection (mm)
5.6 mir			Top flat area diameter (mm)
137			Weight (g)
			Dimensions are given for bare cells.
Charge current (mA	Temp. (°C)	Time (h)	Charge conditions Rate
600	- 20 to + 55	16	Standard
Consult ARTS Energy	- 20 to + 55		Intermittent
			Maximum discharge current
18			Continuous (A) at + 20°C
130			Peak (A) at + 20°C*
			* Peak duration: 0.3 second - final discharge voltage Below 0°C, a cut-off voltage in charge is required (Co



Temperature range in discharge

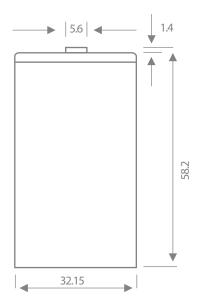
- 40°C to + 70°C

Storage

Recommended: $+5^{\circ}\text{C}$ to $+25^{\circ}\text{C}$ Relative humidity: $65 \pm 5 \%$

Typical performances

For graphs shown, C is the IEC₅ capacity.

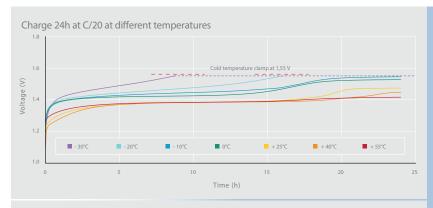


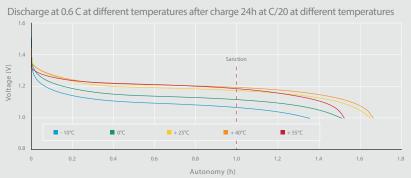
Dimensions are in mm.

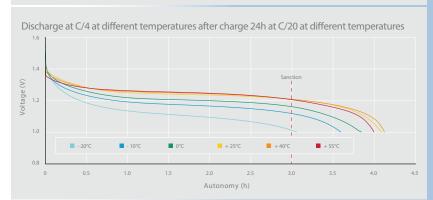
The way of using the battery must strictly be in accordance with ARTS Energy technical recommendations, to obtain the performances announced by ARTS Energy.

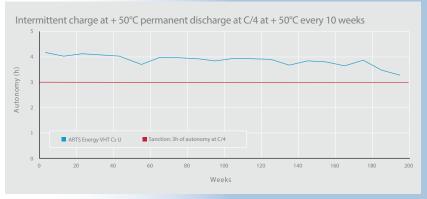
Data are given for single cells. Please consult ARTS Energy for utilization of cell outside this specification.

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











10, rue Ampère Zone Industrielle 16440 Nersac, France Tél. +33(0)5 45 90 35 50 www.arts-energy.com