Ni-MH VHT 7/5 Cs U

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)*	4200
• IEC minimum capacity (mAh)*	4000
IEC designation	HRMU 23/62
• Impedance at 1000 Hz (mΩ)	20
* Charge 16 h at C/10, discharge at C/5.	

DIMENSIONS

• Diameter (mm)	22.0 ± 0.05
• Height (mm)	60.0 ± 0.3
• Top flat area diameter (mm)	9.0
• Weight (g)	74

Dimensions are given for bare cells.

CHARGE CONDITIONS	Temp. (°C)	Current
• ELU applications	0 to +55	C/20 permanent, consult ARTS Ener
• Standard	-40 to +85	C/10
• Fast	-20 to +85	C/3 max charge termination required
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 ma	ax 4 years
Back up applications	1 discharge/day max	5 to 10 years
• Solar applications	1 discharge/day max	5 to 10 years



APPLICATIONS

VHT 7/5 Cs U HRMU 23/62 12V - 48h

- 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

The VHT 7/5 Cs U has been designed to offer a very long life duration in a wide range of temperature.

In ELU the VHT 7/5 Cs U will offer more than 4 years life at 50°C permanent temperature (T type cell). In back up applications, the VHT 7/5 Cs U will offer 5 to 10 years life.

In cycling application (solar, peak shaving), the VHT 7/5 Cs U 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.

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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.

Electrical performances at different temperatures



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.

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

