

ARTS Energy's VH super high energy Ni-MH series are perfectly suited for applications requiring high power, high energy density and robustness. Additionnaly, the VH series can be fast charged (1C).

The VH Cs 3200 XL contains aqueous electrolyte, an important safety feature as it is nonflammable.

This is key reason why the VH Cs 3200 XL are not considered as a dangerous goods and can be transported by air without any transportation constraints (no homologation tests for transportations, no restrictions for packaging and transportation).

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

- Robots / Unmanned Vehicles
- Medical
- Devices used or carried inside planes
- Professional electronics

MAIN BENEFITS

- High energy density
- High power
- Superior robustness
- Safe, no transportation constraints

#* TECHNOLOGY

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

ELECTRICAL CHARACTERISTICS	TZV - JAN	
Nominal voltage (V)		1.2
Typical capacity (mAh)*		3200
IEC minimum capacity (mAh)*		3000
IEC designation		HRX 23/43
Impedance at 1000 Hz (m Ω)		< 4
* Charge 16 h at C/10, discharge at C/5.		
DIMENSIONS		
Diameter (mm)		22.0 ± 0.05
Height (mm)		42.7 ± 0.2
Top projection (mm)		0.8 ± 0.2
Top flat area diameter (mm)		9.0
Weight (g)		55
Dimensions are given for bare cells.	Town (0C)	C
CHARGE CONDITIONS	Temp. (°C) 0 to + 40	Current
	0 to + 40	1C max
Topping (after fast charge)	0 to + 40	8)
Trickle (after topping)		Consult ARTS Energy
Charge below 0°C End of Fast charge cut-off: dT°C/dt recomme	-40 to 0	Consult ARTS Energy
DISCHARGE CONDITIONS		Current
DISCHARGE CONDITIONS	Temp. (°C) 10 to +40	30A max
	0 to +40	3C max
	-10 to +40	1C max
	-10 to +40	C/4 max
	-20 to +40	C/4 max C/20 max
CYCLING CONDITIONS		Life duration
CICEING CONDITIONS	Cycling	Life duration

NI-MH

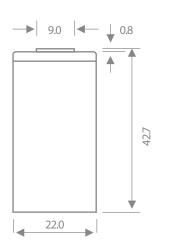
VH Cs 3200 XL Super High Energy series

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STORAGE

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

MI TYPICAL DIMENSIONS



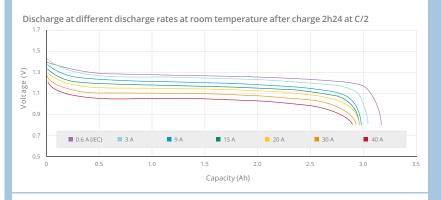
Typical dimensions (mm). Without tube.

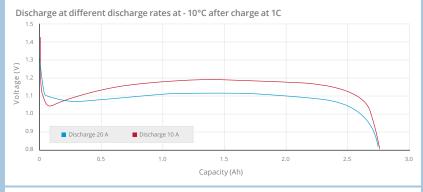
The operation of the battery must strictly be in accordance with ARTS Energy technical recommendations, to obtain the performances stated by ARTS Energy.

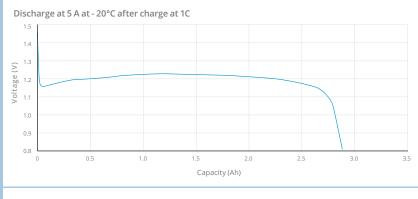
Data is given for single cells. Please consult ARTS Energy for utilisation of cells outside specification.

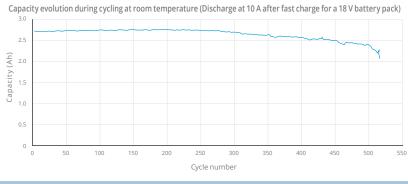
Data in this document is subject to change without notice and become contractual only after written confirmation by ARTS Energy.

For graphs shown, C is the IEC₅ capacity.











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Doc No.: 027-A-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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