

ARTS Energy's VH XP super high energy Ni-MH series are perfectly suited for applications requiring high power, high energy density and robustness. The « XP » stands for eXtended Power and illustrates the higher power capability of the series.

The VH D 9500 XP contains aqueous electrolyte, an important safety feature as it is nonflammable.

This is key reason why the VH D 9500 XP 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



9500

9000

3

Top projection (mm)		1.4 ± 0.4
Top flat area diameter (mm)		5.6
Weight (g)		161
Dimensions are given for bare cells.		
CHARGE CONDITIONS	Temp. (°C)	Current
Fast	0 to + 40	5A max
Topping (after fast charge)	0 to + 40	Consult ARTS Energy
Trickle (after topping)	0 to + 40	Consult ARTS Energy
Charge below 0°C	-40 to 0	Consult ARTS Energy
End of Fast charge cut-off: dT°C/dt recommend	led / -dV acceptable: consult AF	RTS Energy for optimisation
End of Fast charge cut-off: dT°C/dt recommend DISCHARGE CONDITIONS	led / -dV acceptable: consult AF Temp. (°C)	RTS Energy for optimisation Current
S S S S S S S S S S S S S S S S S S S		
S S S S S S S S S S S S S S S S S S S	Temp. (°C)	Current
S S S S S S S S S S S S S S S S S S S	Temp. (°C) 10 to +40	Current 50A max
S S S S S S S S S S S S S S S S S S S	Temp. (°C) 10 to +40 0 to +40	Current 50A max 3C max
S S S S S S S S S S S S S S S S S S S	Temp. (°C) 10 to +40 0 to +40 -10 to +40	Current 50A max 3C max 1C max
S S S S S S S S S S S S S S S S S S S	Temp. (°C) 10 to +40 0 to +40 -10 to +40 -20 to +40	Current 50A max 3C max 1C max C/4 max



VH D 9500 XP Super High Energy series

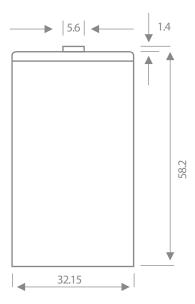
VH D 9500 XP

Super High Energy series

STORAGE

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

IM TYPICAL DIMENSIONS



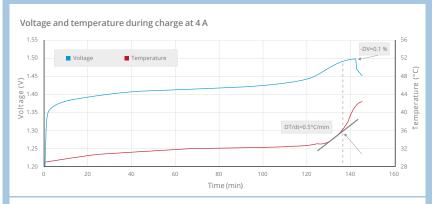
Typical dimensions (mm). Without tube.

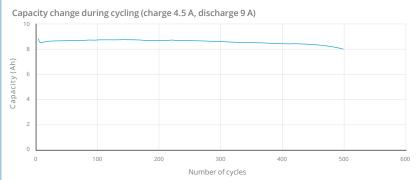
The operation of the battery must strictly be in accordance with ARTS Energy technical recommendations, to obtain the performances stated by ARTS Energy.

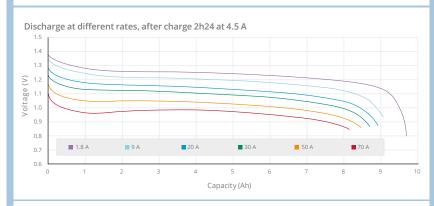
Data is given for single cells. Please consult ARTS Energy for utilisation of cells outside specification.

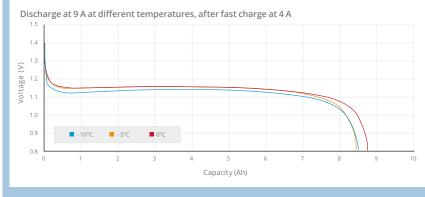
Data in this document is subject to change without notice and become contractual only after written confirmation by ARTS Energy.

For graphs shown, C is the IEC₅ capacity.











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