# Ni-MH VH D 9500 XP

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).

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)*	9500
• IEC minimum capacity (mAh)*	9000
IEC designation	HRH 33/62
<ul> <li>Impedance at 1000 Hz (mΩ)</li> <li>* Charge 16 h at C/10, discharge at C/5.</li> </ul>	3

DIMENSIONS	
Diameter (mm)	32.15 ± 0.1
Height (mm)	$58.2 \pm 0.4$
• Top projection (mm)	$1.4 \pm 0.4$
Top flat area diameter (mm)	5.6
Weight (g)  Dimensions are given for bare cells.	161

CHARGE CONDITIONS	Temp. (°C)	Current	
• Fast	0 to +40	5A max	
<ul> <li>Topping (after fast charge)</li> </ul>	0 to +40	Consult ARTS Energy	
<ul> <li>Trickle (after topping)</li> </ul>	0 to +40	Consult ARTS Energy	
<ul> <li>Charge below 0°C</li> </ul>	-40 to 0	Consult ARTS Energy	
End of Fast charge cut-off is requested: -dV or dT°C/dt			

DISCHARGE CONDITIONS	Temp. (°C)	Current
	10 to +40	50A max
	0 to +40	3C max
	-10 to +40	1C max
	-20 to +40	C/4 max
	-40 to +40	C/20 max

#### **CYCLING CONDITIONS**

• Full cycle (100% DOD)

> 500 cycles



## **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-hybride negative electrode



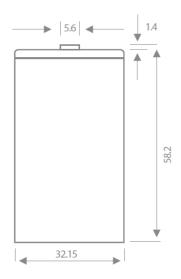


## **STORAGE**

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

