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 e**X**tended **P**ower and illustrates the higher power capability of the series.

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ENERGL

The VH F XP contains aqueous electrolyte, an important safety feature as it is non-flammable.

This is key reason why the VH F 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

ELECTRICAL CHARACTERISTIC	S	
Nominal voltage (V)		1.2
Typical capacity (mAh)*		15300
IEC minimum capacity (mAh)*		14500
IEC designation		HRH 33/91
Impedance at 1000 Hz (mΩ)		2.5
* Charge 16 h at C/10, discharge at C/5.		
DIMENSIONS		
Diameter (mm)		32.15 ± 0.1
Height (mm)		88.8±0.4
Top projection (mm)		1.4 ± 0.4
Top flat area diameter (mm)		5.6
Weight (g)		252
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 recomm	nended / -dV acceptable: consult AF	RTS Energy for optimisation
DISCHARGE CONDITIONS	Temp. (°C)	Current
	10 to +40	70A max
	0 to +40	3C max
	-10 to +40	1C max
	-20 to +40	C/4 max
	-40 to +40	C/20 max
		Life duration
CYCLING CONDITIONS	Cycling	Enclaudion

NI-MH

VH F XP

HRH 33/91

1.2V - 14.5Ah

NI-MH

VH F XP Super High Energy series

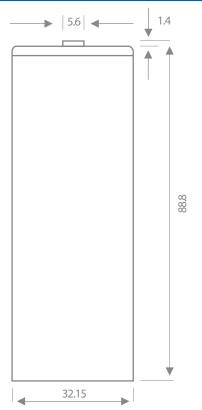
VH F XP

Super High Energy series

STORAGE

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

IM TYPICAL DIMENSIONS



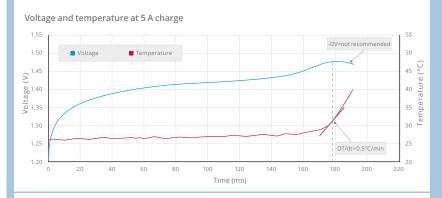
Typical dimensions (mm). Without tube.

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

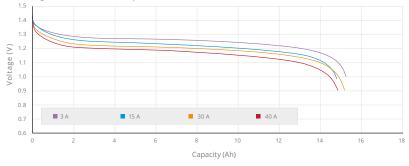
Data is given for single cells. Please consult ARTS Energy for utilisation of cells outside specification.

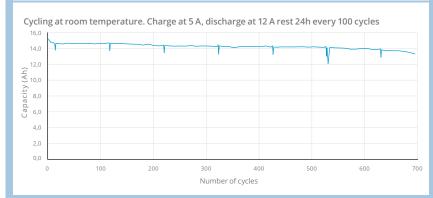
Data in this document is subject to change without notice and become contractual only after written confirmation by ARTS Energy.

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