# VH D 9500 XP

# Super High Energy series

ARTS Energy's VH XP super high energy Ni-MH series are perfectly suited to power tool, mobility markets and other professional appliances. The "XP" stands for eXtended Power and illustrates the higher power capability of the series.

Peak (A) at + 20°C\*

\* Peak duration: 0.3 second - final discharge Voltage 0.6 Volt/Cell.

To meet customers' requirements, ARTS Energy provides custom-designed and standardized battery packs.

For your battery design and system needs, please contact ARTS Energy's engineers.

#### **Applications**

- Electric bicycles, wheelchairs and medical carts
- Professional lighting
- Lawn and gardening tools
- Vacuum cleaners
- Military equipment

#### Main advantages

- Super high capacity
- Quick and fast charge
- High power capability
- Excellent cycling performance
- Good storage ability

#### **Technology**

- Foam positive electrode
- Metal-hydride negative electrode

## Temperature range in discharge

- 10°C to + 40°C

#### Storage

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



Electrical characteristics			
Nominal voltage (V)			1.2
Typical capacity (mAh)*			9500
IEC minimum capacity (mAh)*			9000
IEC designation			HRH 33/62
Impedance at 1000 Hz (m $\Omega$ )		3	
* Charge 16 h at C/10, discharge at 0	C/5.		
Dimensions			
Diameter (mm)		32.15 ± 0.1	
Height (mm)			58.2 ± 0.4
Top projection (mm)			1.4 ± 0.4
Top flat area diameter (mm)			5.6
Weight (g)			168
Dimensions are given for bare cells.			
Charge conditions Rate	Time (h)	Temp. (°C)	Charge current (mA)
Fast	2-3	0 to + 35	up to 5000
Standard	16	0 to + 40	900
Topping	(after a main charge)		300 to 900
Trickle	(after topping)		50 to 300
End of charge cut-off is requested: of	IT/dt recommended, -dV acceptable.		
Maximum discharge curi	rent		



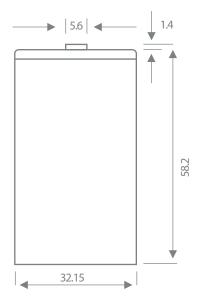
Advanced Rechargeable Technology and Solutions



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### **Typical performances**

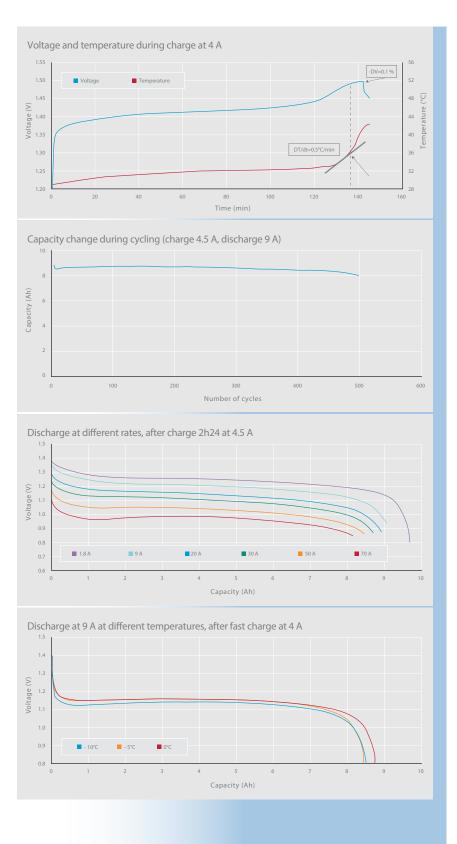
For graphs shown, C is the IEC<sub>5</sub> capacity.



Dimensions are in mm.

Data are given for single cells. Please consult ARTS Energy for utilization of cell outside this specification.

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





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