VH F 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.

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, scooters & wheelchairs
- Professional lighting
- Audio equipments
- Vacuum cleaners

Main advantages

- Super high capacity
- Fast charge ability
- Good storage ability
- Excellent cycling performance

Technology

- Foam positive electrode
- Metal-hydride negative electrode

Temperature range in discharge

- 10°C to + 40°C

Storage

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



Electrical characteristics			
Nominal voltage (V)			1.
Typical capacity (mAh)*			1530
IEC minimum capacity (mAh)*			1450
IEC designation		HRH 33/9	
Impedance at 1000 Hz (m Ω)		2.	
* Charge 16 h at C/10, discharge at	C/5.		
Dimensions			
Diameter (mm)		32.15 ± 0.	
Height (mm)		88.8 ± 0.	
Top projection (mm)			$1.4 \pm 0.$
Top flat area diameter (mm)			5.
Weight (g)			25
Dimensions are given for bare cells.			
Charge conditions Rate	Time (h)	Temp. (°C)	Charge current (m/
Fast	3-4	0 to + 35	up to 500
Standard	16	0 to + 40	150
Topping	(after a main charge)		500 to 150
Trickle	(after topping)		300 to 40
End of charge cut-off is requested:	dT/dt recommended, -dV acceptable.		
Maximum discharge cur	rent		
Continuous (A) at + 20°C			5
Peak (A) at + 20°C*			18

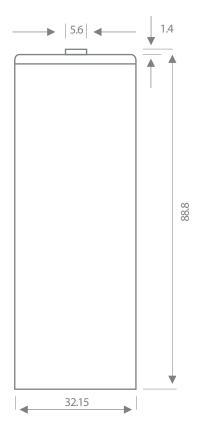


Advanced Rechargeable Technology and Solutions



Typical performances

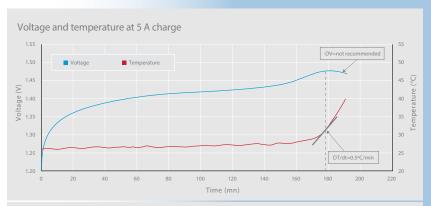
For graphs shown, C is the IEC₅ capacity.

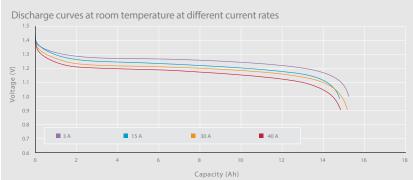


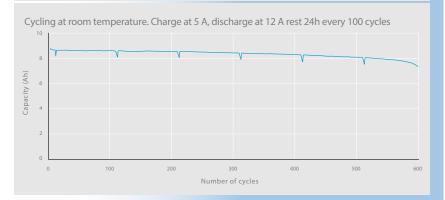
Dimensions are in mm.

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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