Super High Power Series

Nickel-Metal Hydride VH D

The Super High Power series has been extended with the Saft Ni-MH D cell, VH D.

This cell, designed to fit professional video equipment, is also very well adapted for any application where power and long autonomy are required, such as personal electric vehicles, lights, radio control models, etc.

To meet customers' requirements, Saft provides custom-designed and standardized battery packs and electronic monitoring systems.

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

Applications

- Electric bicycles, scooters and wheelchairs
- Professional lighting
- · Lawn and gardening tools
- Vacuum cleaners
- Military equipment

Main advantages

- Super high capacity
- Quick and fast charge
- · 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)*	8500
Minimum capacity (mAh)*	8000
IEC designation	HRH 33/62
Impedance at 1000 Hz (m Ω)	4.0

* Charge 16 h at C/10, discharge at 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)	160

Dimensions are given for bare cells.

Charge conditions					
Rate	Time (h)	Temp. (°C)	Charge current (mA)		
Fast	2 to 3	0 to + 35	up to 4000		
Standard	15	0 to + 40	800		
Topping	(after a main charge)		200 to 800		
Trickle*	(after a topping)		160 to 200		

End of charge cut-off is requested: -dT°C/dt.

* Trickle charge follows fast charge.

Maximum discharge current	
Continuous (A) at + 20°C	40
Peak (A) at + 20°C*	120

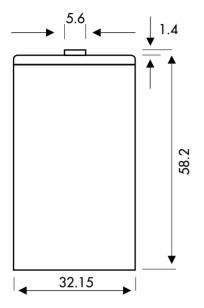
* Peak duration: 0.2 s-cell voltage (0.7).

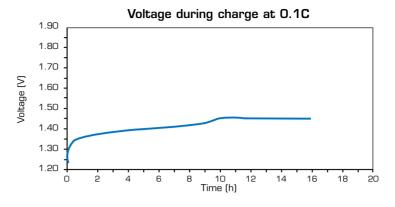


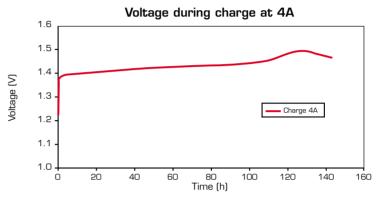
Typical performances

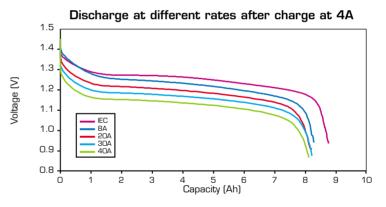
For graphs shown, C is the $\rm IEC_5$ capacity.

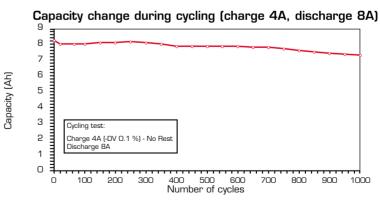
Dimensions are in mm.











Data are given for single cells. Please consult Saft for utilization of cell outside this datasheet.

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

Saft Rechargeable Battery Systems

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