

Super High Power Series

Nickel-Metal Hydride

VH AA

Saft continues the extension of the Super High Energy series with the powerful VH AA.

This cell, designed to fit private mobile radios, as well as cordless phones, is also very well adapted for any application where cycling and energy are required, such as personal care (shavers, vacuum cleaners...).

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

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

Applications

- Private mobile radios
- Personal care products
- Professional appliances
- Handheld terminals

Main advantages

- Super high capacity
- Fast charge / Fast discharge
- Extended cycle life
- Improved storage ability
- Environmentally preferred

Technology

- Foam positive electrode
- Metal-hydride negative electrode

Temperature range in discharge

0°C to + 40°C

Storage

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



Electrical characteristics

Nominal voltage (V)	1.2
Typical capacity (mAh)*	1300
IEC minimum capacity (mAh)*	1200
IEC designation	HR 15/51
Impedance at 1000 Hz (m Ω)	<25

* Charge 16 h at C/10, discharge at C/5.

Dimensions

Diameter (mm)	13.9 ± 0.1
Height (mm)	48.9 ± 0.3
Top projection (mm)	0.8 ± 0.2
Top flat area diameter (mm)	5.6
Weight (g)	25

Dimensions are given for bare cells.

Charge conditions

Rate	Time (h)	Temp. (°C)	Charge current (mA)
Fast	~1	0 to + 35	up to 1200
Quick	4-5	0 to + 40	up to 300
Standard	16	0 to + 40	120
Trickle *			30

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

* Trickle charge follows fast charge.

Maximum discharge current

Continuous (A) at + 20°C	3.6
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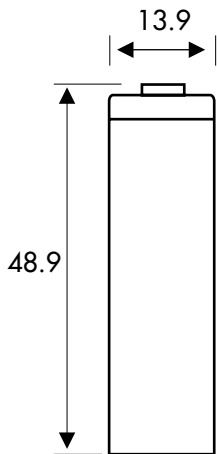


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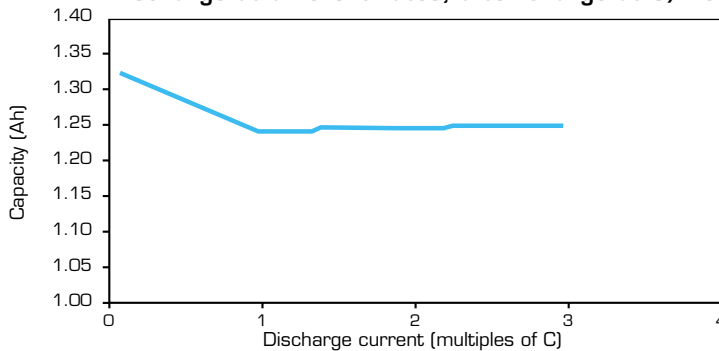
Typical performances

For graphs shown, C is the IEC₅ capacity.

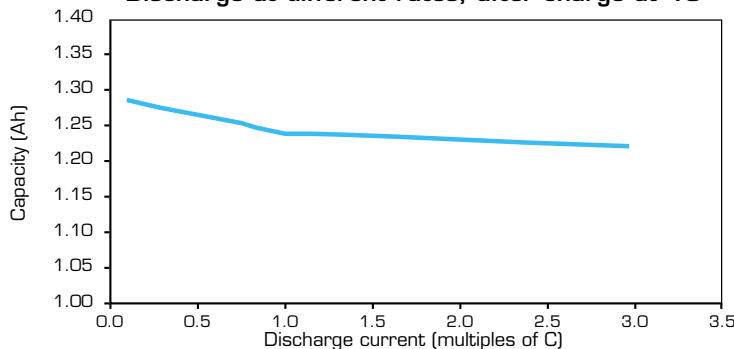
Dimensions are in mm.



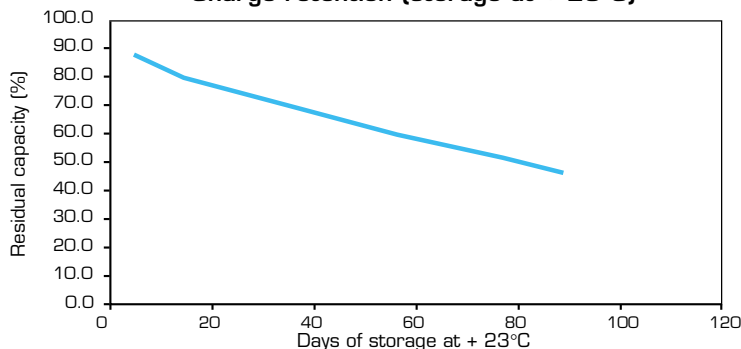
Discharge at different rates, after charge at C/10



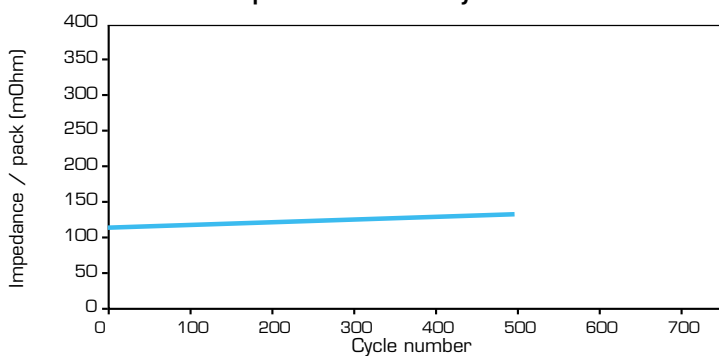
Discharge at different rates, after charge at 1C



Charge retention (storage at + 23°C)



Impedance versus cycle number



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.

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