

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, cordless phones
- Personal care products
- Radio control models
- Professional electronic devices

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%

Data are given for single cell.

Please consult Saft for utilization of cell outside this specification.

Electrical characteristics

Nominal voltage (V)	1.2
IEC typical capacity (mAh) at C/5	1300
IEC minimum capacity (mAh) at C/5	1200
IEC designation	HR 15/51
Impedance at 1000 Hz (mΩ)	<25

Dimensions

Diameter (mm)	14.0
Height (mm)	49.2
Top projection (mm)	0.7 +/- 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	+10 to +40	1200
Quick	3 to 4	+5 to +40	400
Standard	16	0 to +40	120
Trickle *		-5 to +40	30

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

* Trickle charge follows quick or fast charge

The maximum battery temperature recommended during charge is +45°C

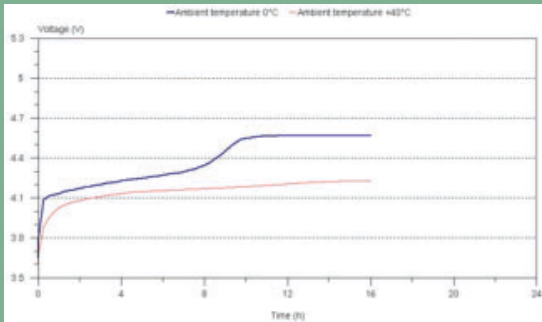
Maximum discharge current

Continuous (A) at +20°C	3.6
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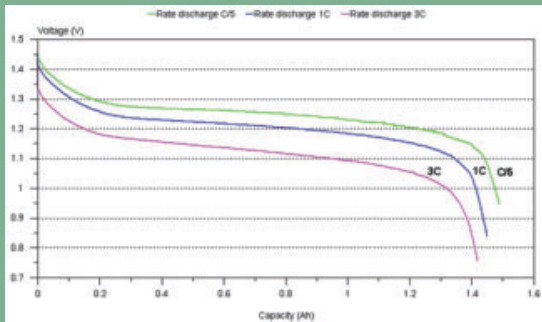
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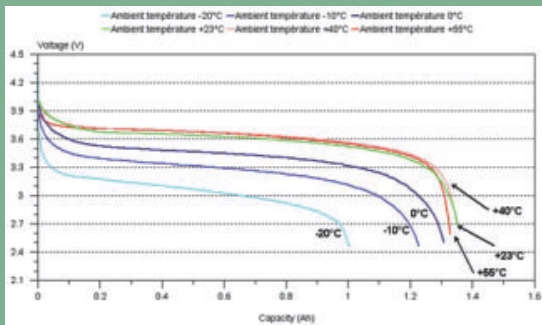
Voltage in normal charge (current 0.1 C)



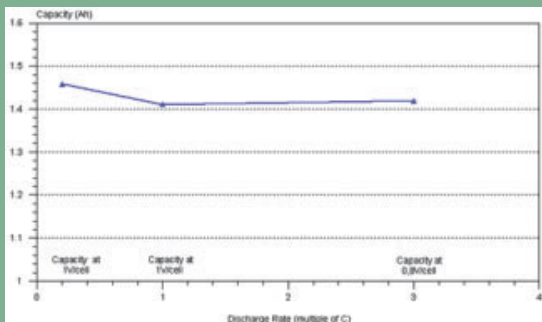
Voltage in fast charge at different current



Voltage in discharge at different temperatures

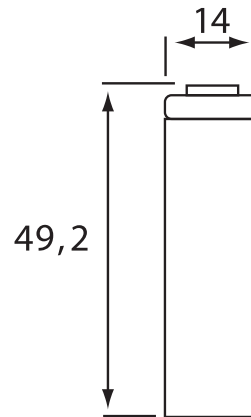


Available capacity (after charge 0.1 C x 16 hours at +20°C)



Typical performances

For graphs shown, C is the IEC₅ capacity.
 Dimensions are in mm.



SAFT Rechargeable Battery systems

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