

NEW!

VH AA 1500

Super High Energy series

Nickel-Metal Hydride



Electrical characteristics

Nominal voltage (V)	1.2
IEC typical capacity (mAh) at C/5	1 500
IEC minimum capacity (mAh) at C/5	1 400
IEC designation	HR 15/51
Impedance at 1000 Hz (mΩ)	< 25

Dimensional characteristics

Diameter (mm)	13.9 ± 0.1
Height (mm)	48.9 ± 0.3
Top projection (mm)	0.7 ± 0.2
Top flat area diameter (mm)	5.6
Weight (g)	26

Dimensions are given for bare cells

Charge conditions

Rate	Time (h)	Temp. (°C)	Charge current (mA)
Fast*	~ 1	+ 10 to + 40	1 400
Quick	~ 4	+ 5 to + 40	460
Standard	16	0 to + 40	140
Trickle**		- 5 to + 40	35

* Fast charge must be controlled: end of charge cut-off is recommended, preferably the -dV method, 5 mV/cell.

** Trickle charge follows fast, quick or standard charge

Maximum discharge current

Continuous (mA) at + 20°C	4 200
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This cell, VH AA 1500, is also available with a high top: VH AAH 1500. The diameter is similar. The top projection is 1.7 ± 0.2 mm, the top flat area diameter is 4.0 mm, and the height 49.9 ± 0.3 mm.

Saft continues the extension of the Super High Energy series with the upgraded Ni-MH AA cell, VH AA 1500.

This cell, designed to fit private mobile radios, as well as cordless telephones, is also very well adapted for any application where cycling and energy are required, such as consumer electronic products (shavers, etc).

To meet customers requirements, Saft will provide custom-designed and standardized battery packs.

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

Applications

- Private mobile radios, cordless telephones
- Personal care products
- Radio control models
- Consumer 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

Extended: - 20°C to + 40°C
(< 1 month)

Relative humidity: 65 ± 5%

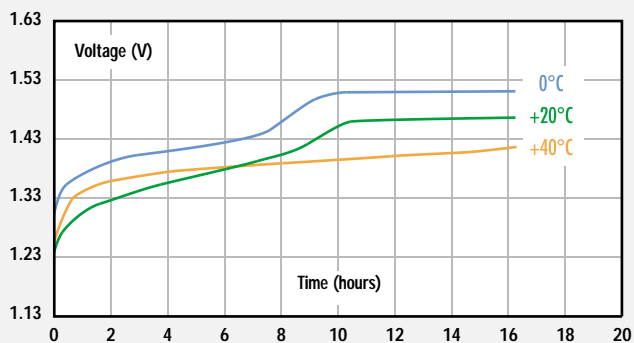
Please consult Saft for utilization of cell outside this specification



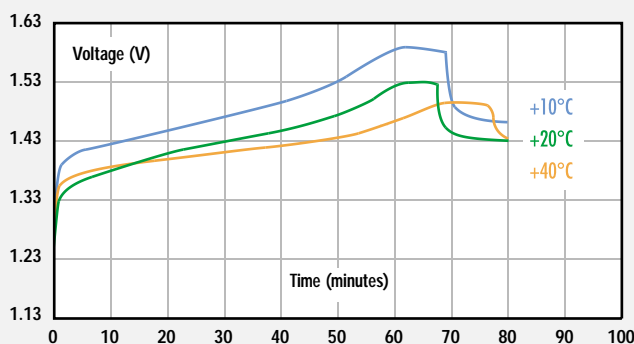
VH AA 1500

Typical performances

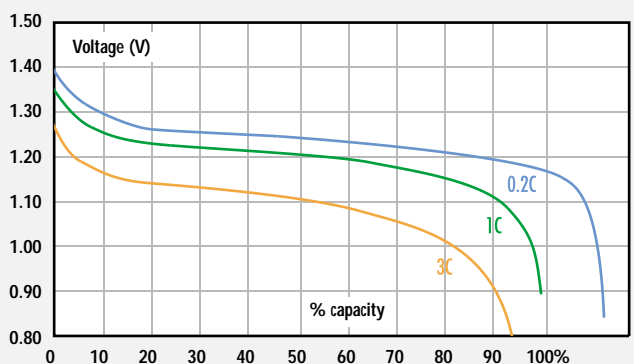
For graphs shown,
C is the IEC C₅ capacity.



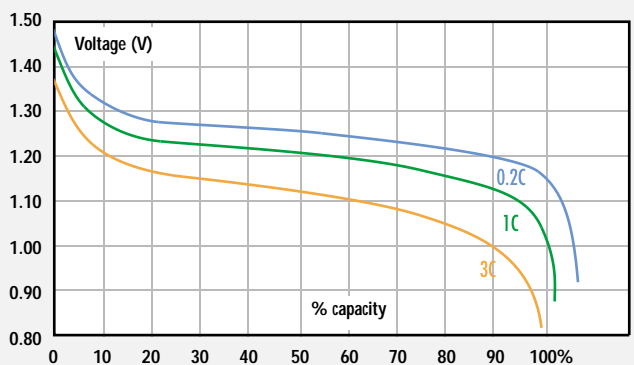
Voltage in
slow charge
current 0.1 C



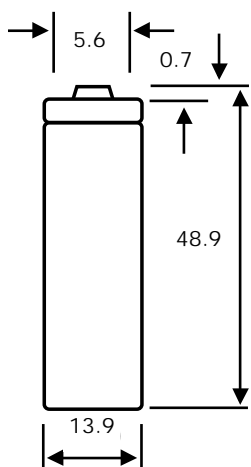
Voltage in
fast charge
current C



Voltage in
discharge at
+20°C
after slow
charge
0.1 C
x 16 hours
at +20°C



Voltage in
discharge at
+20°C
after fast
charge
1 C x 1.2 hours
at +20°C



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