

Super High Energy Series

Nickel-Metal Hydride

VH AAH 1700



Saft continues the extension of the Super High Energy series (AA size) with the VH AAH 1700.

This cell is designed to fit digital still cameras, as well as any application where high energy is required, such as personal care and home appliances.

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

- Digital camera
- Home appliances
- Personal care products
- Professional electronic devices

Main advantages

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

Technology

- Foam positive electrode
- Metal-hydride negative electrode

Temperature range in discharge
0°C to + 40°C

Storage

Recommended: + 5°C to + 20°C
Relative humidity: 40 ± 5%

Electrical characteristics

Nominal voltage (V)	1.2
Typical capacity (mAh)*	1700
IEC rated capacity (mAh)*	1600
IEC designation	HR 15/51
Impedance at 1000 Hz (m Ω)	<20

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

Dimensions

Diameter (mm)	13.9 ± 0.10
Height (mm)	49.9 ± 0.3
Top projection (mm)	1.7 ± 0.2
Top flat area diameter (mm)	4 ± 0.2
Weight (g)	26

Dimensions are given for bare cells.

Charge conditions

Rate	Time (h)	Temp. (°C)	Charge current (mA)
Fast	~1	0 to + 35	up to 1600
Quick	4-5	0 to + 40	up to 500
Standard	16	0 to + 40	160
Trickle*			40

End of charge cut-off is requested: -dV method, 5 mV/cell.

* Trickle charge follows fast charge.

Maximum discharge current

Continuous (A) at + 20°C	5.1
Peak (A) at + 20°C*	10

* Peak duration: <1s - final discharge voltage 0.6 volt/cell.

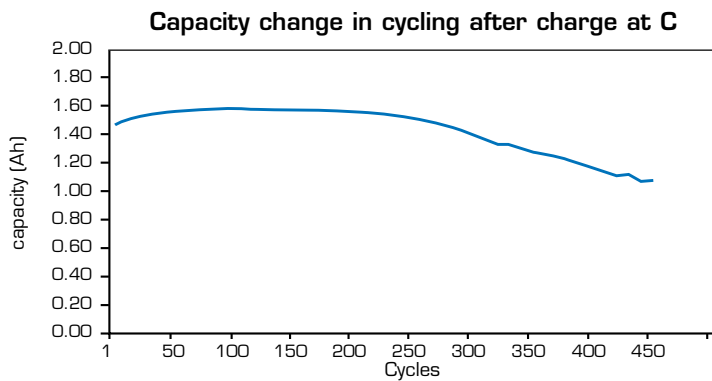
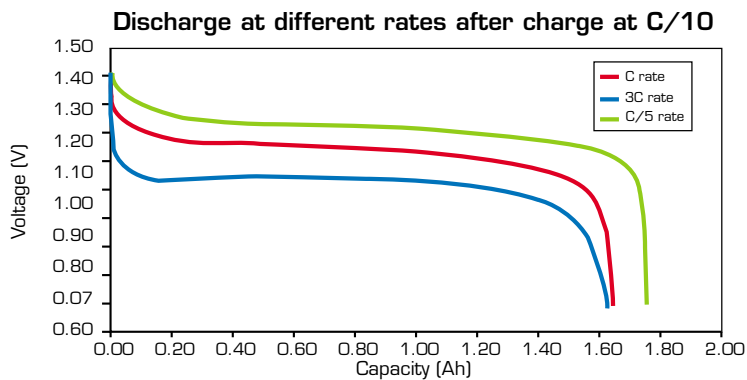
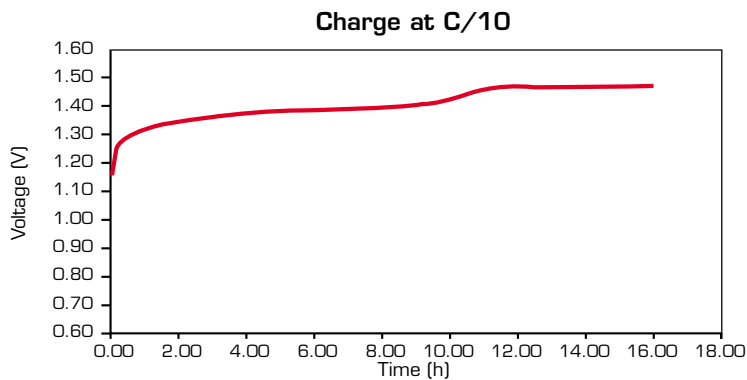
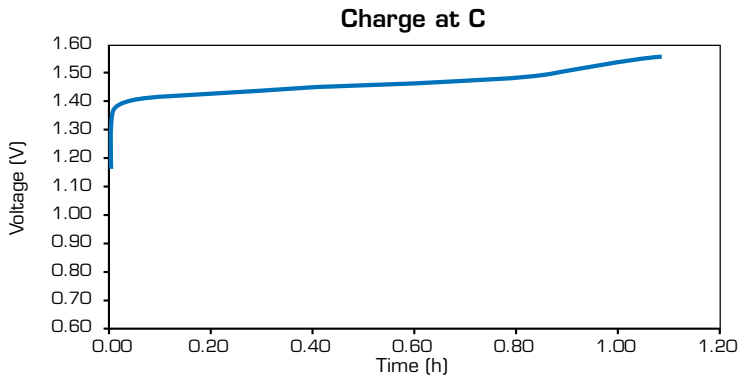
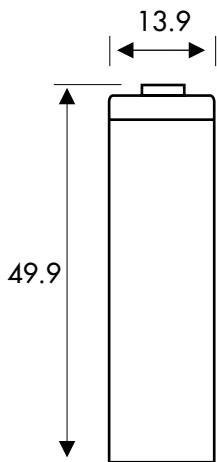


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Typical performances

For graphs shown, C is the IEC₅ 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.

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