

High Temperature Series

Nickel-Metal Hydride

VHT 7/5 Cs

The Ni-MH VHT range has been specially designed to fit the emergency lighting and high temperature power back-up requirements. This range complements the Ni-Cd VT range.

The VHT 7/5 Cs is designed to accept a permanent charge in high temperature environments such as in security lighting equipment. With an IEC capacity of 4.0 Ah, the VHT 7/5 Cs particularly suits slim design fixtures as it provides the same capacity as a Ni-Cd D cell in a smaller diameter.

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

- Emergency lighting
- Back-up systems

Main advantages

- Excellent charge efficiency at high temperatures
- Permanent charge
- Superior storage retention

Technology

- Foam positive electrode
- Metal-hydride negative electrode

Temperature range in discharge

- 10°C to + 55°C

Storage

Recommended: + 5°C to + 25°C

Relative humidity: 65 ± 5%



Electrical characteristics

Nominal voltage (V)	1.2
Typical capacity (mAh)*	4200
IEC rated capacity (mAh)*	4000
IEC designation	HRMT 23/62
Impedance at 1000 Hz (mΩ)	20

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

Dimensions

Diameter (mm)	22.0 ± 0.05
Height (mm)	60.0 ± 0.3
Top projection (mm)	0.85 ± 0.2
Top flat area diameter (mm)	10.0 ± 0.1
Weight (g)	74

Dimensions are given for bare cells.

Charge conditions

Rate	Time (h)	Temp. (°C)	Charge current (mA)
Standard	16	- 10 to + 55	400
Permanent	-	-	up to 200

Maximum discharge current

Continuous (A) at + 20°C	15
Peak (A) at + 20°C*	130

* Peak duration: 0.3 second - final discharge voltage 0.6 volt/cell.

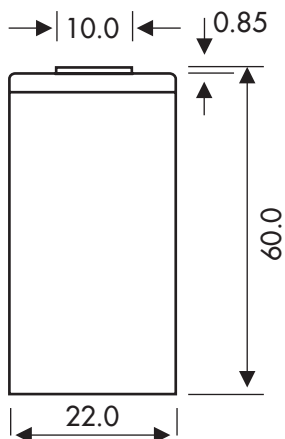


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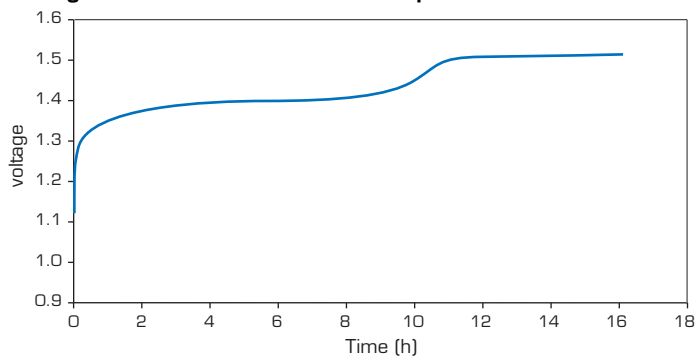
Typical performances

For graphs shown, C is the IEC₅ capacity.

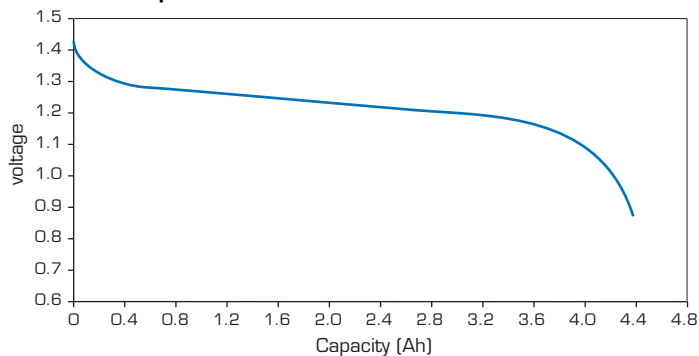
Dimensions are in mm.



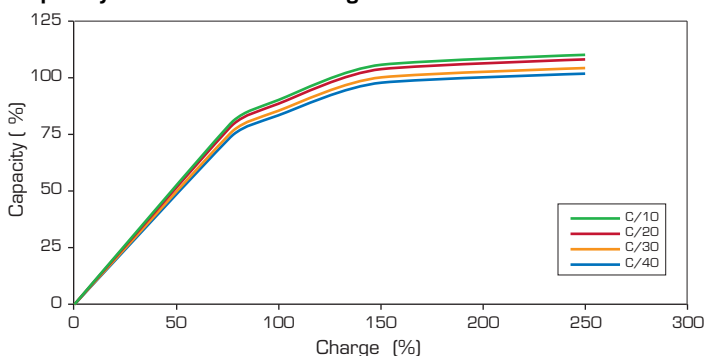
Charge 16h at C/10 at room temperature



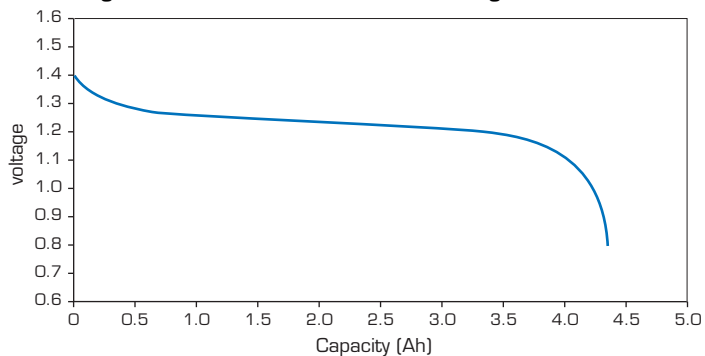
Discharge at C/5 after charge 16h at C/10 at room temperature



Capacity after different charge rate at +40°C



Discharge at 0.25C at +55°C after charge at C/20 at +55°C



Data are given for single cells.
Please consult Saft for any use of this cell in other conditions than those given in this data sheet.

Saft Rechargeable Battery Systems

12, rue Sadi Carnot
93170 Bagnole - France
Tel.: +33 (0)1 49 93 19 18
Fax: +33 (0)1 49 93 19 68
Email: rbs.info@saftbatteries.com

www.saftbatteries.com

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