High Temperature Series

Nickel-Metal Hydride VHT 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 Cs is designed to accept a permanent charge in high temperature environments such as security lighting equipement. The VHT Cs offers capacity of IEC 2.0 Ah.

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: $+ 5^{\circ}\text{C}$ to $+ 25^{\circ}\text{C}$ Relative humidity: $65 \pm 5\%$



Electrical characteristics	
Nominal voltage (V)	1.2
Typical capacity (mAh)*	2200
IEC rated capacity (mAh)*	2000
IEC designation	HRMT 23/43
Impedance at 1000 Hz (m Ω)	5

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

Dimensions	
Diameter (mm)	22.0 ± 0.05
Height (mm)	42.4 ± 0.2
Top projection (mm)	0.85 ± 0.2
Top flat area diameter (mm)	10.0 ± 0.1
Weight (g)	60

Dimensions are given for bare cells.

Charge conditions			
Rate	Time (h)	Temp. (°C)	Charge current (mA)
Standard	16	- 10 to + 55	200
Permanent	-	-	up to 100

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

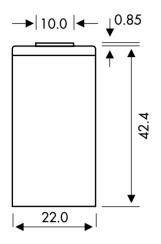
^{*} Peak duration: 0.3 second - final discharge voltage 0.6 volt/cell.

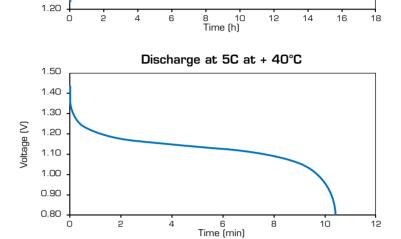


Typical performances

For graphs shown, C is the $\rm IEC_5$ capacity.

Dimensions are in mm.





Charge at C/10 at + 40°C

1.90

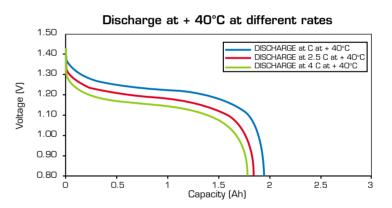
1.80

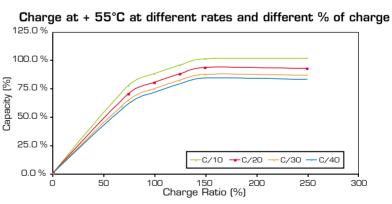
1.70

1.60 1.50 1.40

1.30

Voltage [V]





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.

Saft Rechargeable Battery Systems

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