

Standard Series

Nickel-Cadmium

VRE Cs

To expand its Ni-Cd offer, Saft has launched new High Energy Ni-Cd Cs cells, the VRE Cs.

Developed to fit Professional electronics and home appliances, these cells are also perfectly designed for all equipment where an extended cycle life and a longer operating time are required.

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

- Power tools
- Radio controls
- Lawn and gardening equipment
- Home appliances
- Payment terminals

Main advantages

- Cycling application
- Fast charge
- Extended cycle life
- Good charge retention

Technology

- Sintered positive electrode
- Plastic bonded negative electrode

Temperature range in discharge

- 20°C to + 60°C

Storage

Recommended: + 5°C to + 25°C

Relative humidity: 65 ± 5 %



Electrical characteristics

Nominal voltage (V)	1.2
Typical capacity (mAh)*	1400
IEC minimum capacity (mAh)*	1300
IEC designation	KRHR 23/43
Impedance at 1000 Hz (m Ω)	6

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

Dimensions

Diameter (mm)	22.0 + 0.15/- 0.05
Height (mm)	41.9 ± 0.3
Top projection (mm)	0.8 ± 0.2
Top flat area diameter (mm)	9.0 min
Weight (g)	43

Dimensions are given for bare cells.

Charge conditions

Rate	Time (h)	Temp. (°C)	Charge current (mA)
Fast*	~ 1	+ 10 to + 45	up to 1300
Standard	16	0 to + 50	130
Trickle**			30 to 65

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

** Trickle charge follows fast charge.

Maximum discharge current

Continuous (A) at + 20°C	13
Peak (A) at + 20°C*	108

* Peak duration: 0.3 second - final discharge voltage 0.65 volt/cell.

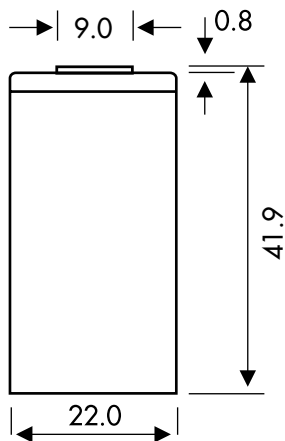


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Typical performances

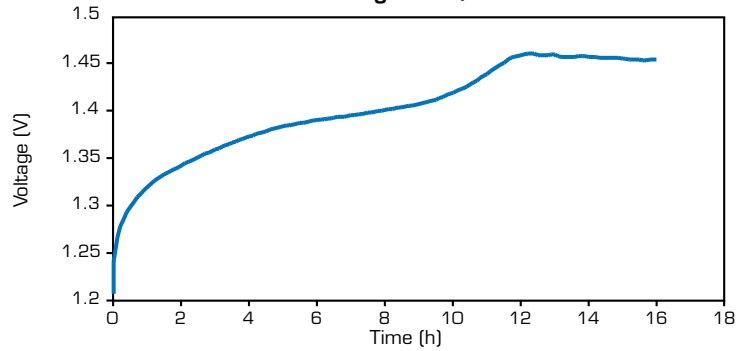
For graphs shown, C is the IEC₅ capacity.

Dimensions are in mm.

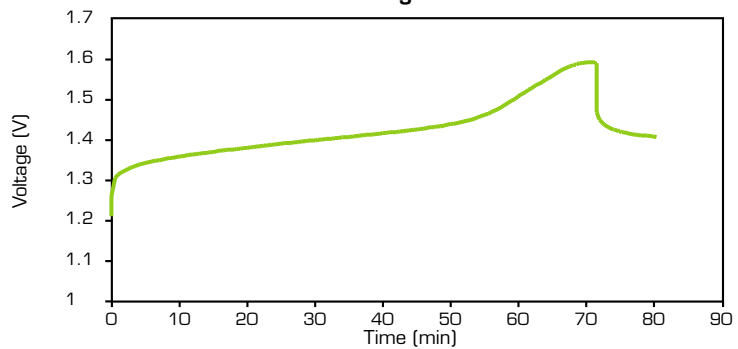


Data are given for single cells.
Please consult Saft for any use of
this cell in other conditions than
those given in this data sheet.

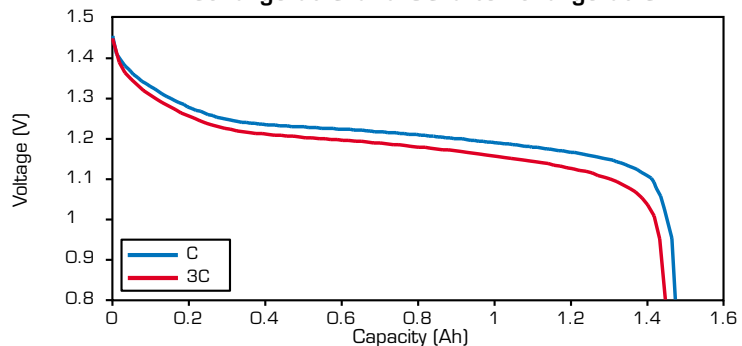
Charge at C/10



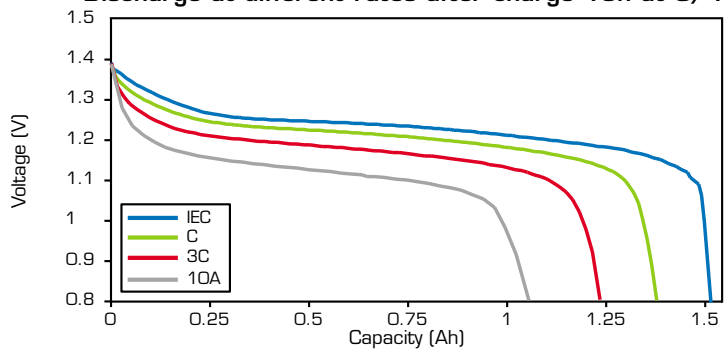
Charge at C



Discharge at C and 3C after charge at C



Discharge at different rates after charge 16h at C/10



Rechargeable Battery Systems

12, rue Sadi Carnot
93170 Bagnolet - 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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