

Standard Series

Nickel-Cadmium

VRE Cs 1800

To expand its Ni-Cd offer, Saft has launched new High Energy Ni-Cd Cs cells, the VRE Cs 1800.

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)*	1800
IEC minimum capacity (mAh)*	1700
IEC designation	KRHR 23/43
Impedance at 1000 Hz (m Ω)	5

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

Dimensions

Diameter (mm)	22.0 + 0.15/- 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)	49

Dimensions are given for bare cells.

Charge conditions

Rate	Time (h)	Temp. (°C)	Charge current (mA)
Fast*	~ 1	+ 10 to + 45	up to 1700
Standard	16	0 to + 50	170
Trickle**			45 to 80

* 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	17
Peak (A) at + 20°C*	130

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

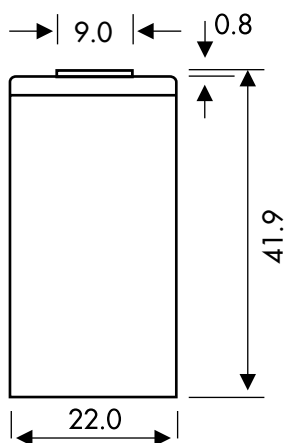


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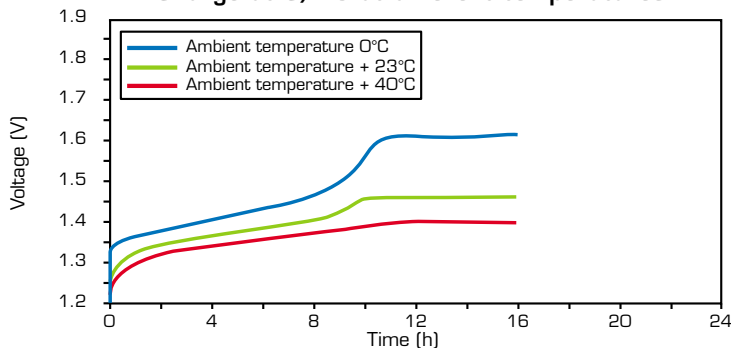
Typical performances

For graphs shown, C is the IEC₅ capacity.

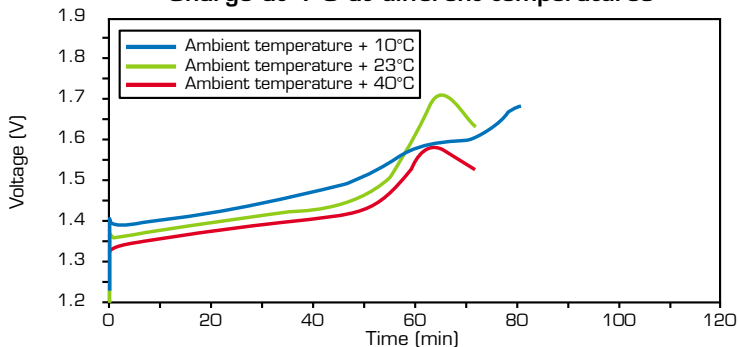
Dimensions are in mm.



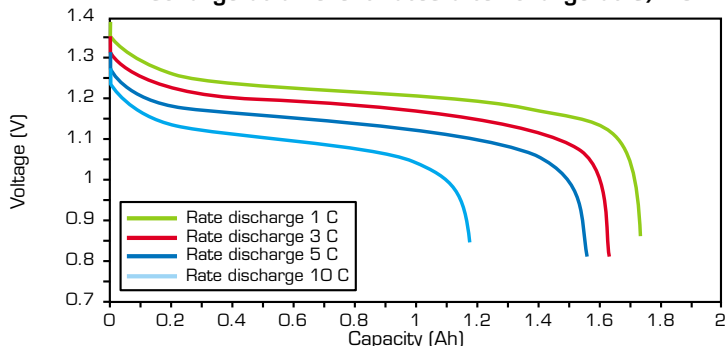
Charge at C/10 at different temperatures



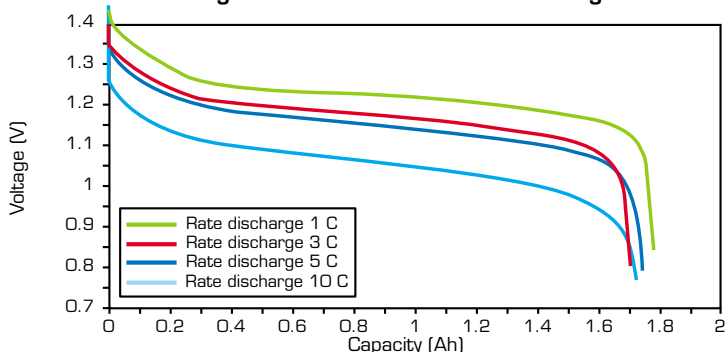
Charge at 1 C at different temperatures



Discharge at different rates after charge at C/10



Discharge at different rates after charge at 1 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.

CELL PACK
SOLUTIONS

Telephone: +44 (0)191 496 9999

Email: batteries@cellpacksolutions.co.uk

Website: www.cellpacksolutions.co.uk

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