

Standard Series Nickel-Cadmium VR 7 FL

Engineered for cycling applications, Saft's VR 7 FL cell ideally suits for a wide range of applications.

In addition, the VR 7 FL is well-adapted for applications requiring a permanent charge at temperatures of up to +35°C.

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

- Professional appliances
- Memory back-up systems
- Portable military equipment (portable radio communication...)

Main advantages

- Cycling application
- Quick charge

Technology

- Sintered positive electrode
- Sintered negative electrode

Temperature range in discharge

- 40°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)*	7700
IEC minimum capacity (mAh)*	7000
IEC designation	KRH 33/91
Impedance at 1000 Hz (m Ω)	2.7

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

Dimensions

Diameter (mm)	32.15 ± 0.1
Height (mm)	88.8 ± 0.4
Top projection (mm)	1.4 ± 0.4
Top flat area diameter (mm)	5.6 ± 0.1
Weight (g)	228

Dimensions are given for bare cells.

Charge conditions

Rate	Time (h)	Temp. (°C)	Charge current (mA)
Quick*	2 - 3	+ 10 to + 40	3500
Standard	16	0 to + 50	700
Trickle**			175 to 250

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

** Trickle charge follows quick charge.

Maximum discharge current

Continuous (A) at + 20°C	35
Peak (A) at + 20°C*	240

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

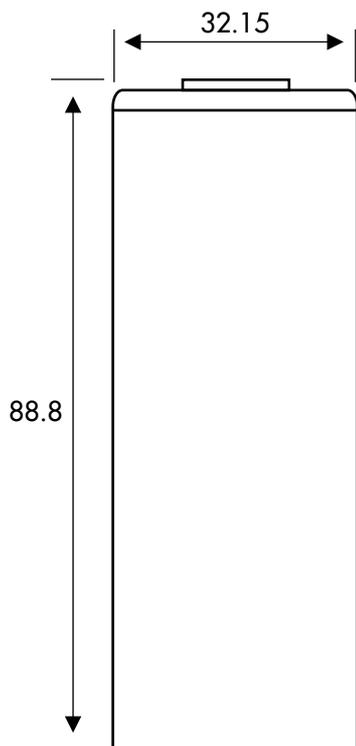


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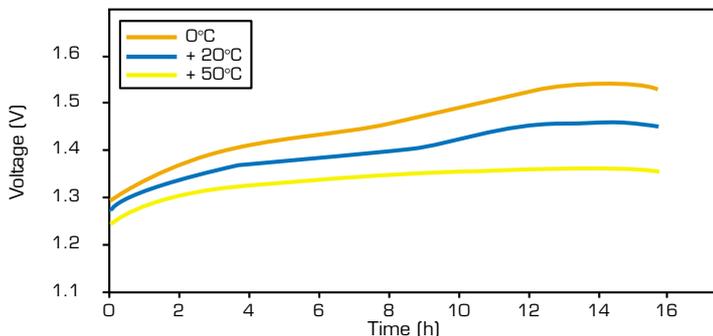
Typical performances

For graphs shown, C is the IEC₅ capacity.

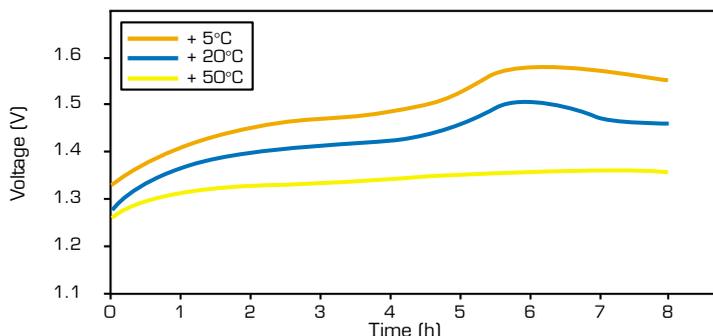
Dimensions are in mm.



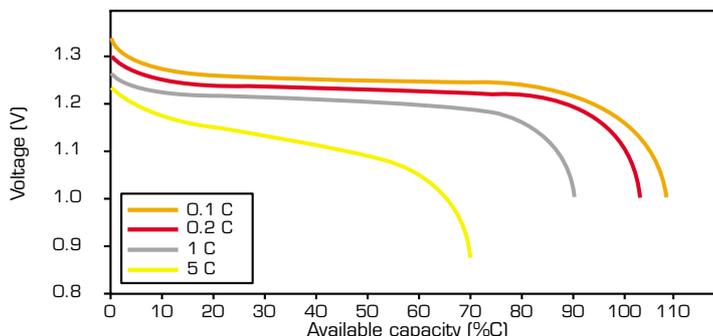
Voltage in normal charge (current 0.1 C)



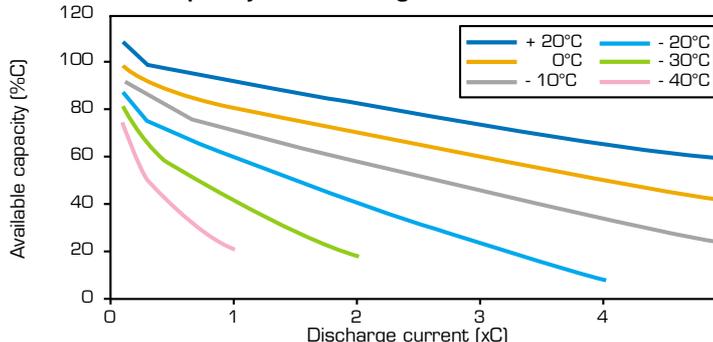
Voltage in quick charge (current 0.2 C)



Voltage in discharge at + 20°C (after charge 0.1 C x 16 hours at + 20°C)



Available capacity (after charge 0.1 C x 16 hours at + 20°C)



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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