

Standard Series Nickel-Cadmium VR 4 D

Engineered for cycling applications, Saft's VR 4 D cell ideally suits for a wide range of applications.

In addition, the VR 4 D 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
- Power tool
- Memory back-up systems
- Portable military equipment (portable radio communication...)

Main advantages

- Cycling application
- Fast 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)*	4500
IEC minimum capacity (mAh)*	4000
IEC designation	KRHR 33/62
Impedance at 1000 Hz (m Ω)	3.1

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

Dimensions

Diameter (mm)	32.15 ± 0.1
Height (mm)	58.2 ± 0.4
Top projection (mm)	1.4 ± 0.4
Top flat area diameter (mm)	5.6 ± 0.1
Weight (g)	145

Dimensions are given for bare cells.

Charge conditions

Rate	Time (h)	Temp. (°C)	Charge current (mA)
Fast*	~1	+ 10 to + 40	4000
Standard	16	0 to + 50	400
Trickle**			100 to 200

* 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	28
Peak (A) at + 20°C*	210

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

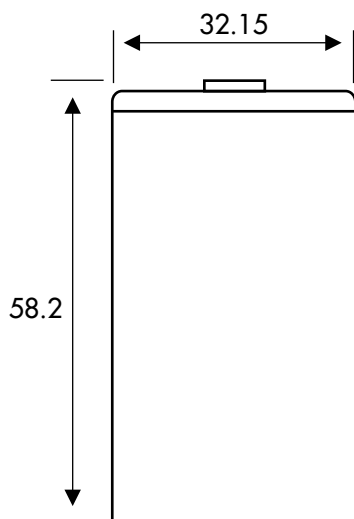


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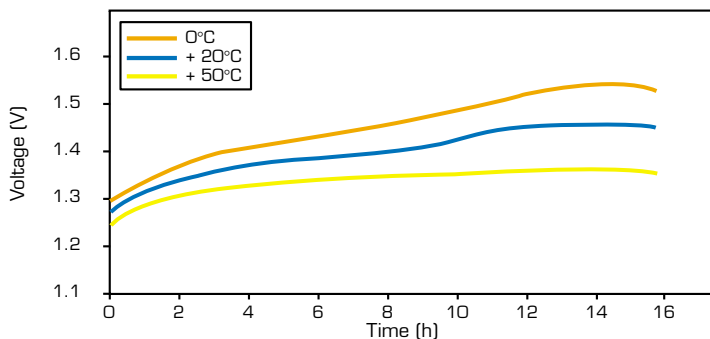
Typical performances

For graphs shown, C is the IEC₅ capacity.

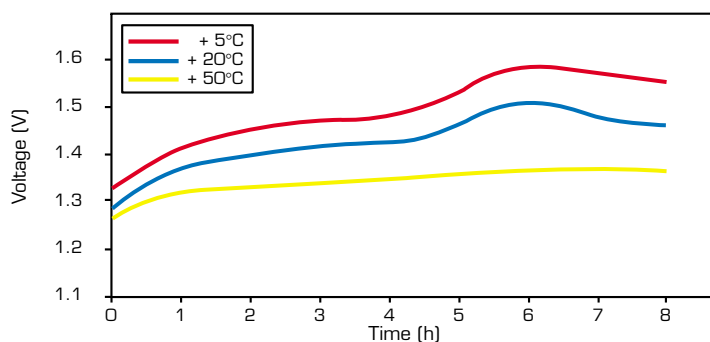
Dimensions are in mm.



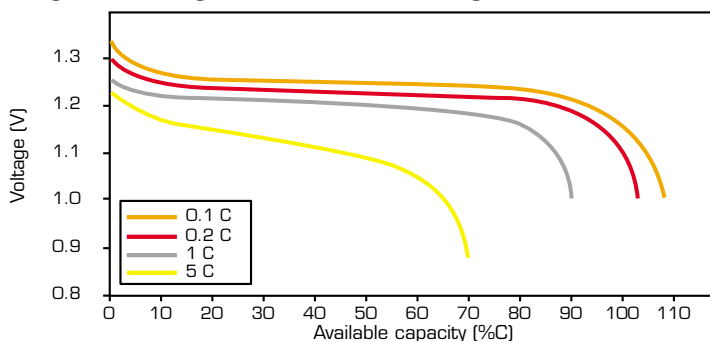
Voltage in normal charge (current 0.1 C)



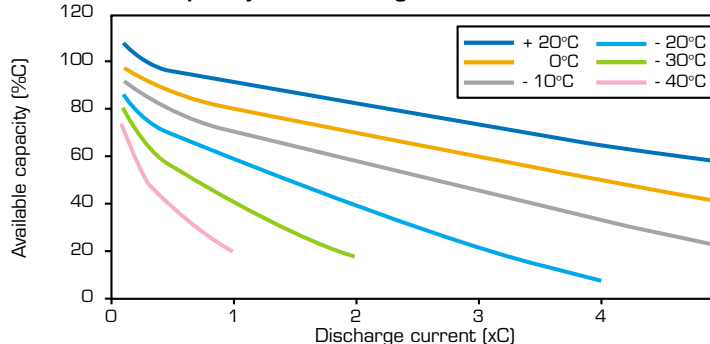
Voltage in fast charge (current 0.2 C)



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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