

# Standard Series Nickel-Cadmium VR 2/3 D

Engineered for cycling applications Saft's VR 2/3 D cell ideally suits for a wide range of applications.

In addition, the VR 2/3 D is well-adapted for applications requiring a permanent charge (C/20) 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
- Home appliances
- Memory back-up systems

## 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)*	2850
IEC minimum capacity (mAh)*	2500
IEC designation	KRHR 33/44
Impedance at 1000 Hz (m Ω)	3.3

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

## Dimensions

Diameter (mm)	32.15 ± 0.1
Height (mm)	43.3 ± 0.4
Top projection (mm)	1.4 ± 0.4
Top flat area diameter (mm)	5.6 ± 0.1
Weight (g)	103

Dimensions are given for bare cells.

## Charge conditions

Rate	Time (h)	Temp. (°C)	Charge current (mA)
Fast*	~1	+ 10 to + 40	2500
Standard	16	0 to + 50	250
Trickle**			62 to 125

\* 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	18
Peak (A) at + 20°C*	108

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

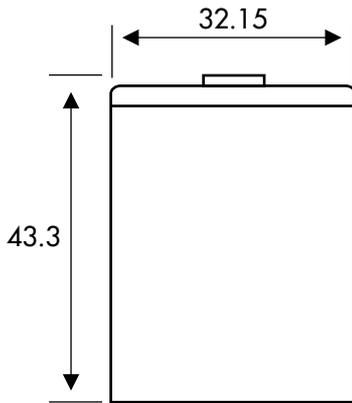


**saft**

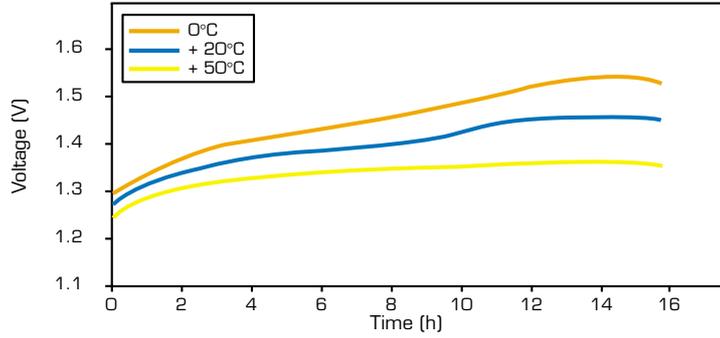
### Typical performances

For graphs shown, C is the IEC<sub>5</sub> capacity.

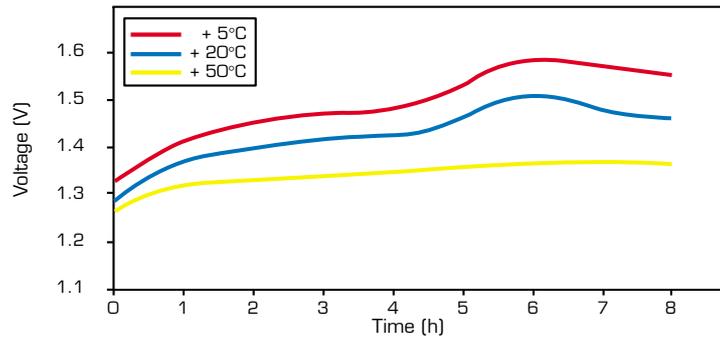
Dimensions are in mm.



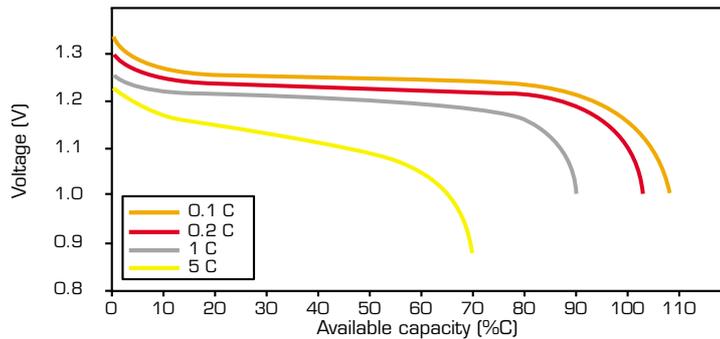
### Voltage in normal charge (current 0.1 C)



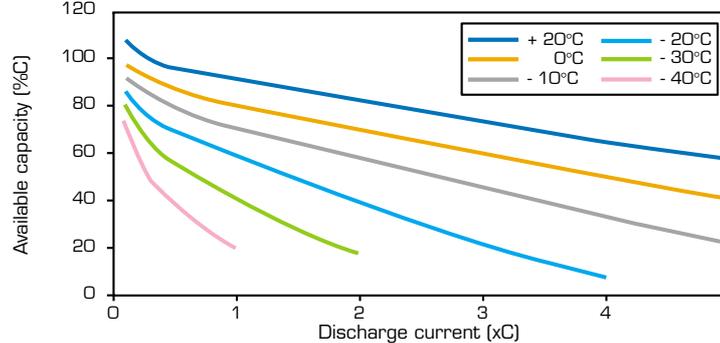
### Voltage in fast charge (current 0.2 C)



### 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.

## Saft Rechargeable Battery Systems

12, rue Sadi Carnot  
93170 Bagnolet - France  
Tel.: +33 1 49 93 19 18  
Fax: +33 1 49 93 19 68  
Email: rbs.info@saftbatteries.com

[www.saftbatteries.com](http://www.saftbatteries.com)

