

# STANDARD SERIES

Nickel-Cadmium

## VRE C

Engineered for cycling applications  
Saft's VRE C cell ideally suits for a  
wide range of applications.

In addition, the VRE C is well-adapted  
for applications requiring a permanent  
charge (C/20) at temperatures  
of up to +35°C.

Moreover, it offers a high level of  
reliability and an excellent cost/  
performance ratio.

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 electronics
- Cordless communication systems
- Home appliances
- Radio controls and toys

### Main advantages

- High energy series giving a  
higher operating time
- Good storage retention
- Quick and fast charge
- Cycling application

### 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%

**Data are given for single cell.**

**Please consult Saft for utilization  
of cell outside this specification.**



### Electrical characteristics

Nominal voltage (V)	1.2
IEC typical capacity (mAh) at C/5	2550
IEC minimum capacity (mAh) at C/5	2300
IEC designation	KRH27/50
Impedance at 1000 Hz (mΩ)	8

### Dimensions

Diameter (mm)	25.2 +/- 0.15
Height (mm)	49.1 +/- 0.4
Top projection (mm)	0.8 +/- 0.2
Top flat area diameter (mm)	12.0
Weight (g)	77

Dimensions are given for bare cells

### Charge conditions

Rate	Time (h)	Temp. (°C)	Charge current (mA)
Fast	~1	0 to +45	2300
Quick	3 to 4	+5 to +45	800
Standard	16	0 to +50	230
Trickle *		-5 to +50	10

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

\* Trickle charge follows quick or fast charge

The maximum battery temperature recommended during charge is +45°C

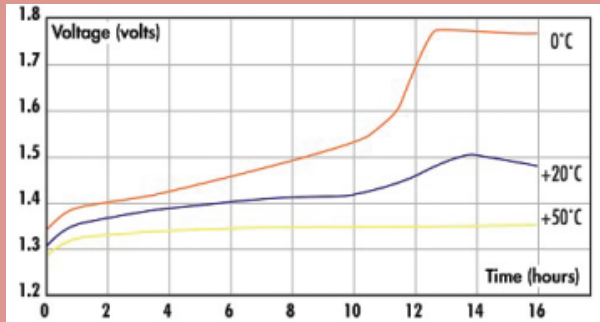
### Maximum discharge current

Continuous (A) at +20°C	7
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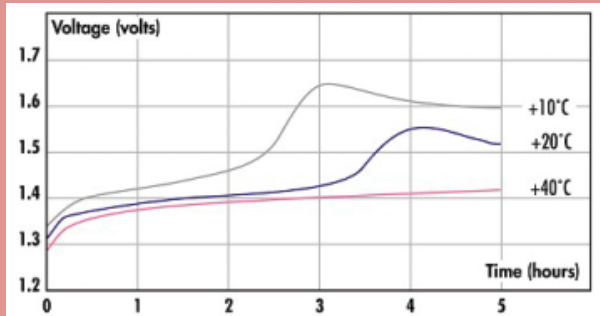
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**VRE C**

## Voltage in normal charge (current 0.1 C)

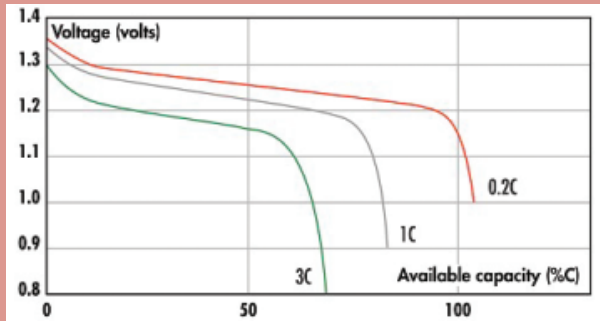


## Voltage in fast charge (current 0.3 C)

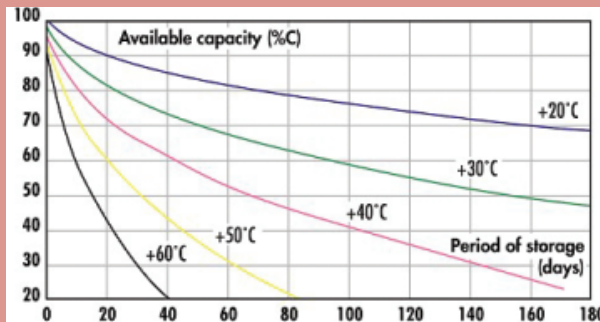


## Voltage in discharge at +20°C

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

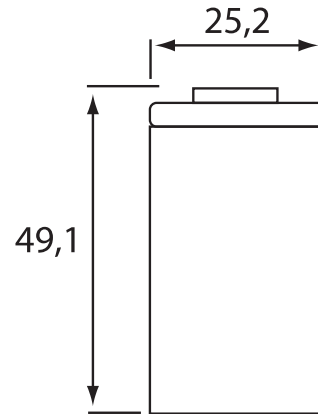


## Charge retention (between +20°C and +60°C)



## Typical performances

For graphs shown, C is the IEC<sub>5</sub> capacity.  
Dimensions are in mm.



## SAFT

### Rechargeable Battery systems

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