

# High Energy Series

## Nickel-Cadmium

### VE 2/3 A

With the VE series, Saft upgrades its standard technology: it boosts capacity by 10 to 15 % without increasing volume, while at the same time maintaining performance levels.

The VE 2/3 A cell offers significant capacity gains for the same volume, high energy for applications requiring a higher operating time and good storage retention.

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
- Communication appliances
- Home appliances
- Private Mobile Radio (PMR)

#### Main advantages

- High energy series giving a higher operating time
- Good storage retention
- Fast charge
- Cycling application

#### Technology

- Sintered positive electrode
- Plastic bonded 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
IEC minimum capacity (mAh)*	670
IEC designation	KRMR 17/29
Impedance at 1000 Hz (m Ω)	< 40

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

#### Dimensions

Diameter (mm)	16.7 +/- 0.3
Height (mm)	27.9 +/- 0.5
Top flat area diameter (mm)	8 +/- 0.2
Weight (g)	18

Dimensions are given for bare cells.

#### Charge conditions

Rate	Time (h)	Temp. (°C)	Charge current (mA)
Fast*	~1	+ 10 to + 40	670
Standard	16	0 to + 50	67
Trickle**			15 to 30

\* 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	2.0
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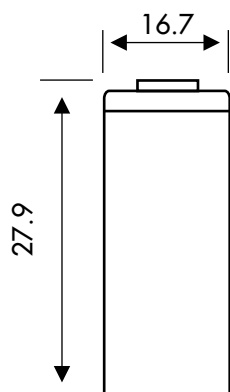


**saft**

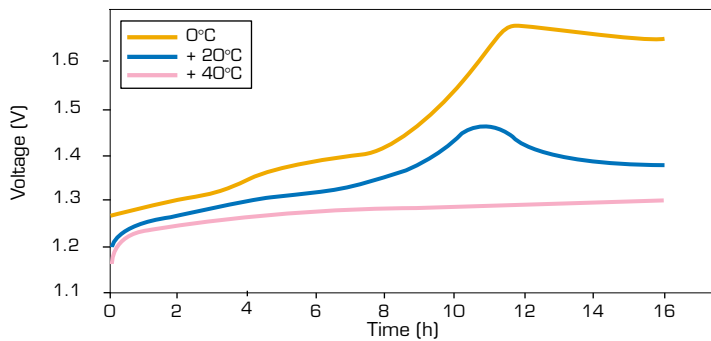
## Typical performances

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

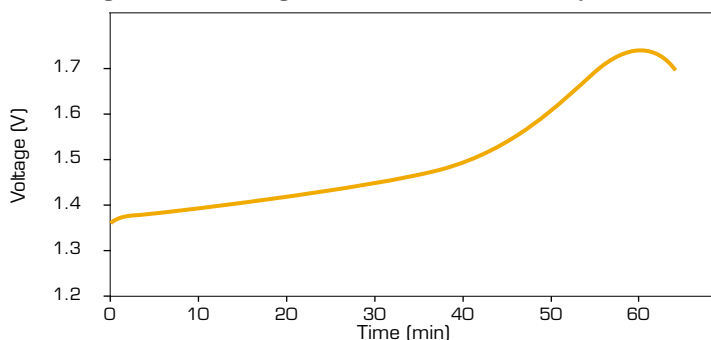
Dimensions are in mm.



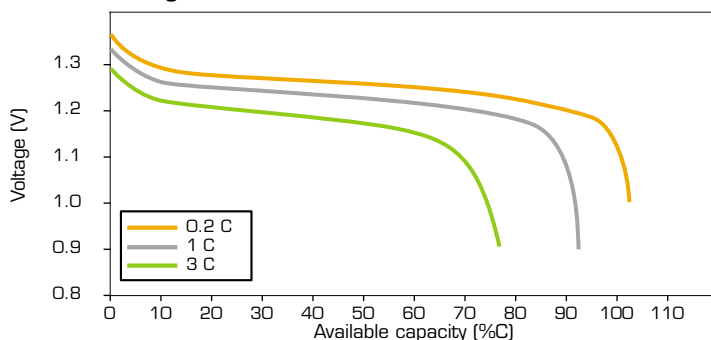
## Voltage in normal charge (current 0.1 C)



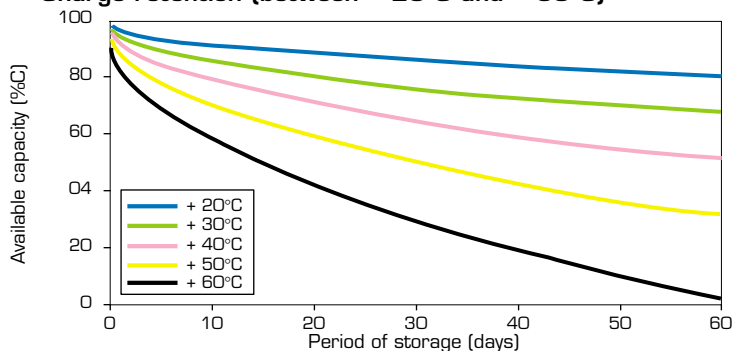
## Voltage in fast charge (current 1.2 C at temperature + 20°C)



## 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)



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.

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