

High Energy Series

Nickel-Cadmium

VE 4/5 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 4/5 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
Typical capacity (mAh)*	1100
IEC minimum capacity (mAh)*	1000
IEC designation	KRMR 17/43
Impedance at 1000 Hz (m Ω)	21

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

Dimensions

Diameter (mm)	16.6 ± 0.1
Height (mm)	42 ± 0.3
Top projection (mm)	0.7 ± 0.2
Top flat area diameter (mm)	4 ± 0.2
Weight (g)	27

Dimensions are given for bare cells.

Charge conditions

Rate	Time (h)	Temp. (°C)	Charge current (mA)
Fast*	~1	+ 10 to + 40	1000
Standard	16	0 to + 50	100
Trickle**			25 to 50

* 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	5.0
Peak (A) at + 20°C*	31

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

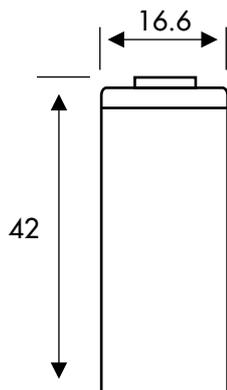


SAFT

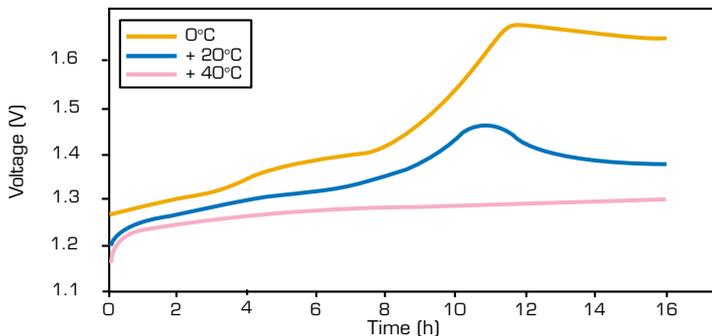
Typical performances

For graphs shown, C is the IEC₅ capacity.

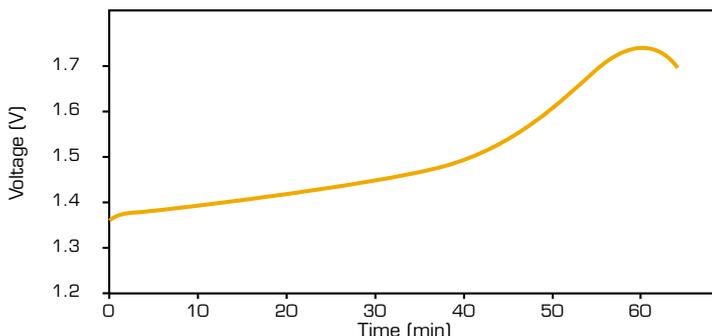
Dimensions are in mm.



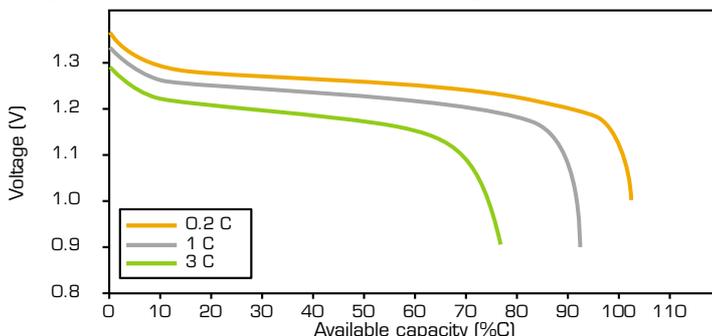
Voltage in normal charge (current 0.1 C)



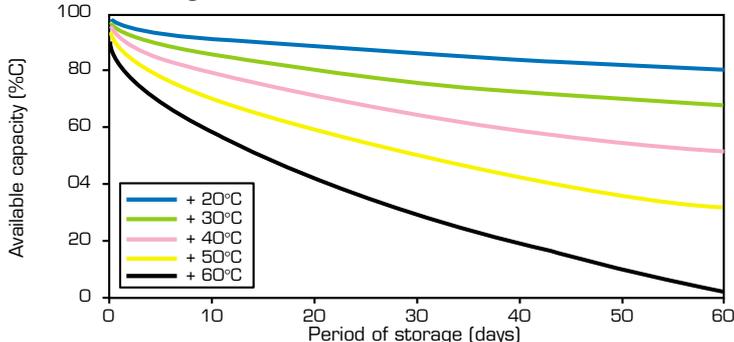
Voltage in fast charge (current 1.2 C at temperature + 20°C)



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 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



SAFT