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
- Cordless communication systems
- Home appliances
- Private mobile radio

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	1050
IEC minimum capacity (mAh) at C/5	1000
IEC designation	KRH 17/43
Impedance at 1000 Hz (mΩ)	21

Dimensions

Diameter (mm)	16.7 +/- 0.2
Height (mm)	42.3 +/- 0.2
Top projection (mm)	0.7 +/- 0.2
Top flat area diameter (mm)	5.6
Weight (g)	27

Dimensions are given for bare cells

Charge conditions

Rate	Time (h)	Temp. (°C)	Charge current (mA)
Fast	~1	+10 to +40	1200
Quick	3 to 4	+5 to +50	300
Standard	16	0 to +50	100
Trickle*		-20 to +50	40

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	5.0

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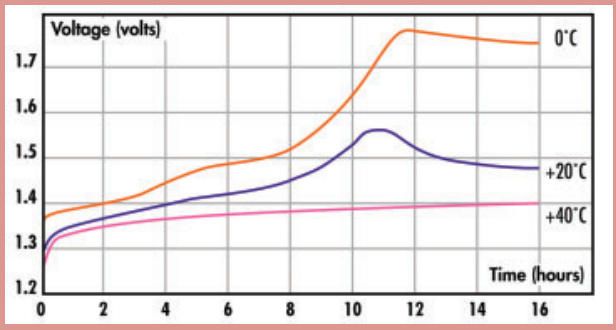
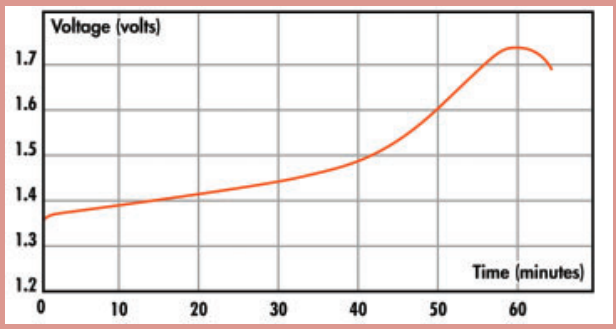
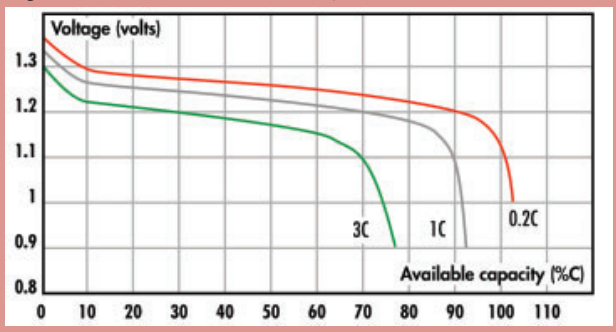
Voltage in normal charge (current 0.1 C)



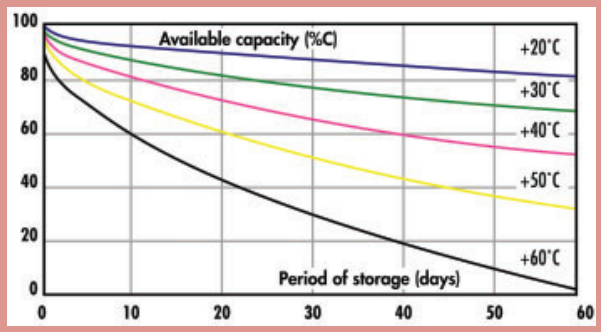
Voltage in fast charge (current 1.2 C at temperature +20°C)



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



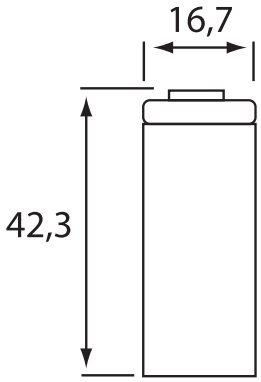
Charge retention (between +20°C and +60°C)



Typical performances

For graphs shown, C is the IEC_5 capacity.

Dimensions are in mm.



SAFT
Rechargeable Battery systems
12, rue Sadi Carnot
93170 Bagnolet - France
Phone: +33 (0)1 49 93 19 18
Fax: +33 (0)1 49 93 19 68
Email: rbs.info@saft.alcatel.fr
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