

Standard Series Nickel-Cadmium VRE AA 700

Saft has extended its Ni-Cd offer with the high energy VRE AA 700 cell.

Designed to fit cycling applications such as home appliances, these cells ideally suit for cordless equipment and advanced technology appliances (professional appliances).

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

- Home appliances
- Personal care

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

- 20°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]*	780
IEC minimum capacity [mAh]*	700
IEC designation	KRMR 15/51
Impedance at 1000 Hz [m Ω]	16

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

Dimensions

Diameter [mm]	13.9 ± 0.1
Height [mm]	48.9 ± 0.3
Top projection [mm]	0.8 ± 0.2
Top flat area diameter [mm]	4 ± 0.2
Weight [g]	21

Dimensions are given for bare cells.

Charge conditions

Rate	Time (h)	Temp. (°C)	Charge current (mA)
Fast*	~1	+ 10 to + 45	up to 700
Standard	16	0 to + 50	70
Trickle**			17.5 to 35

* 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	2.1
Peak [A] at + 20°C*	46

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

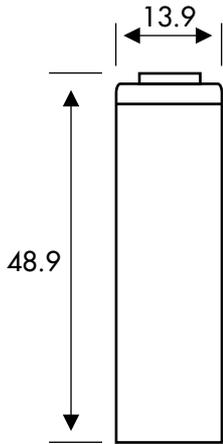


SAFT

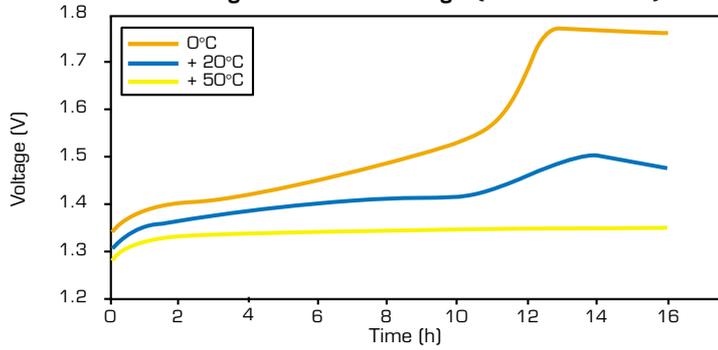
Typical performances

For graphs shown, C is the IEC₅ capacity.

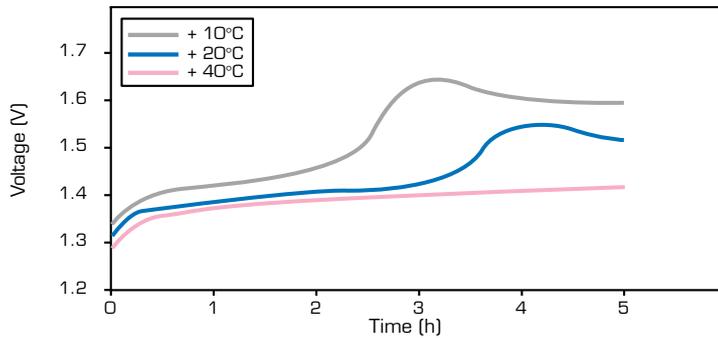
Dimensions are in mm.



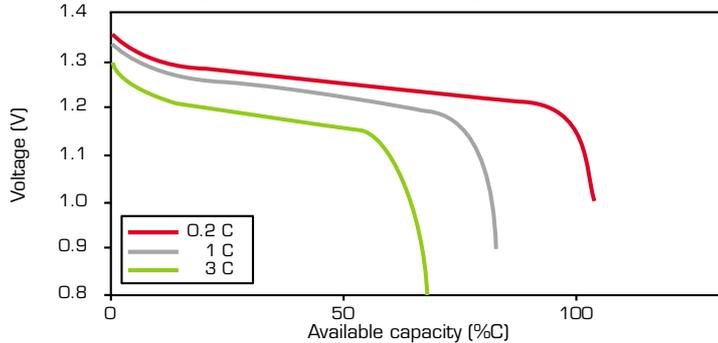
Voltage in normal charge (current 0.1 C)



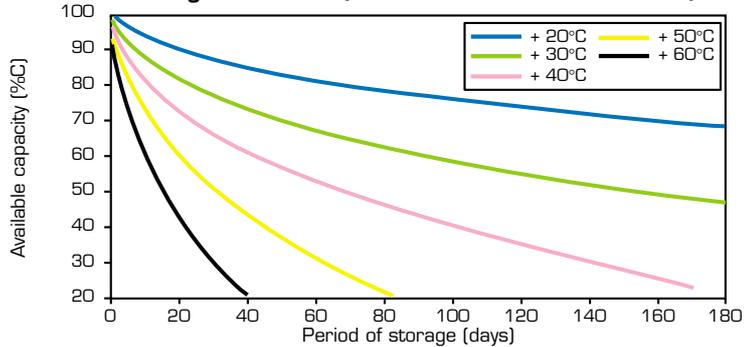
Voltage in fast charge (current 0.3 C)



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)



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.

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