

STANDARD SERIES

Nickel-Cadmium

VRE 1/2 AA

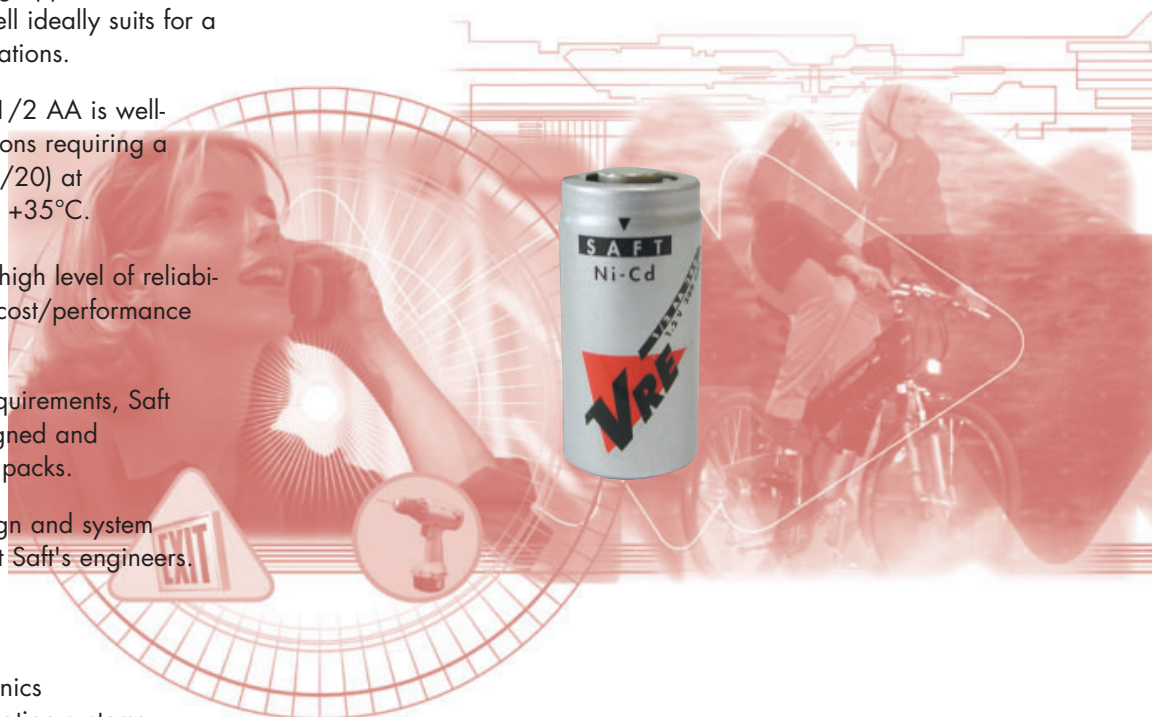
Engineered for cycling applications Saft's VRE 1/2 AA cell ideally suits for a wide range of applications.

In addition, the VRE 1/2 AA 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	350
IEC minimum capacity (mAh) at C/5	300
IEC designation	15/30
Impedance at 1000 Hz (mΩ)	30

Dimensions

Diameter (mm)	14.0
Height (mm)	29.8
Top projection (mm)	0.9
Top flat area diameter (mm)	5.6
Weight (g)	12

Dimensions are given for bare cells

Charge conditions

Rate	Time (h)	Temp. (°C)	Charge current (mA)
Fast	~1	0 to +45	300
Quick	3 to 4	+5 to +45	100
Standard	16	0 to +50	30
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

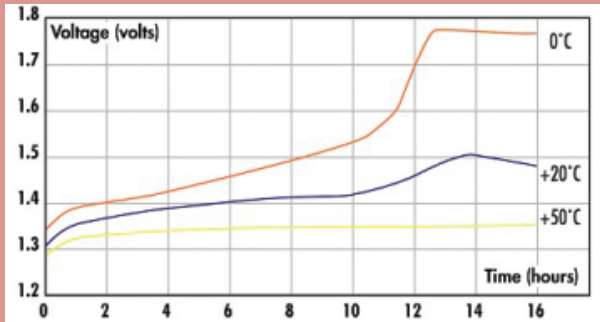
Maximum discharge current

Continuous (A) at +20°C	0.9
-------------------------	-----

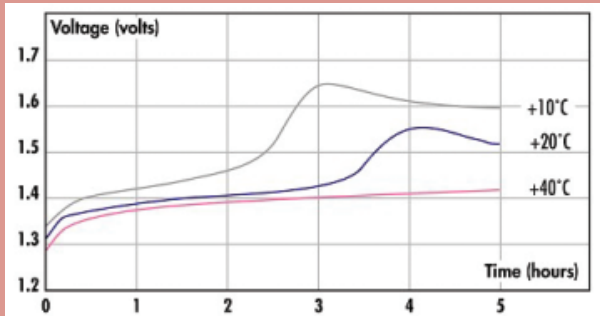
STANDARD SERIES

Nickel-Cadmium
VRE 1/2 AA

Voltage in normal charge (current 0.1 C)

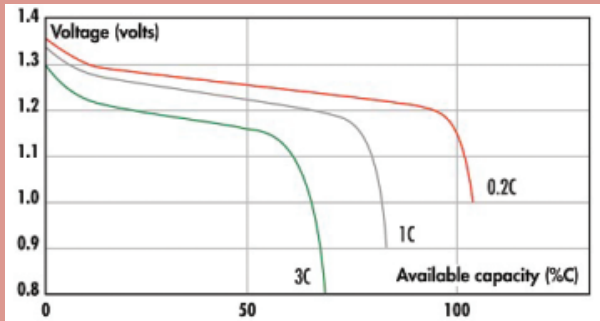


Voltage in fast charge (current 0.3 C)

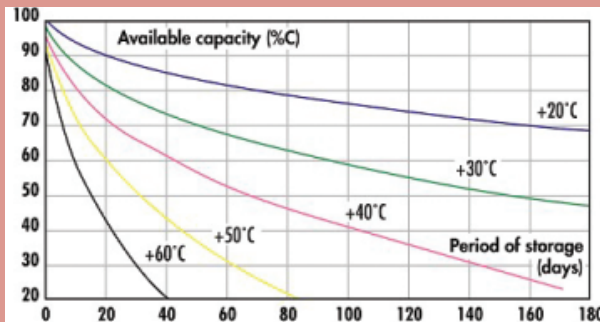


Voltage in discharge at +20°C

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

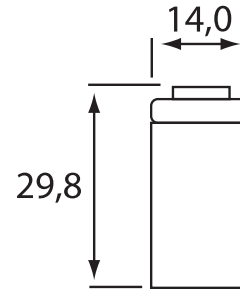


Charge retention (between +20°C and +60°C)



Typical performances

For graphs shown, C is the IEC₅ 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
DOC. N° 11060-2-0402
Published by the Communication Department

www.saftbatteries.com

Data in this document are subject to change without notice and become contractual only after written confirmation by Saft.

