STANDARD SERIES

Nickel-Cadmium

VRE 1/3 AA

Engineered for cycling applications Saft's VRE 1/3 AA cell ideally suits for a wide range of applications.

In addition, the VRE 1/3 AA is well-adapted for applications requiring a permanent charge (C/20) at temperatures of up to $+35^{\circ}$ 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: $+5^{\circ}$ C to $+25^{\circ}$ C Relative humidity: $65 \pm 5\%$

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	145
IEC minimum capacity (mAh) at C/5	130
IEC designation	15/18
Impedance at 1000 Hz (mΩ)	48

Dimensions

Weight (g)	7
Top flat area diameter (mm)	6.2
Top projection (mm)	0.91
Height (mm)	16.8
Diameter (mm)	13.6

Dimensions are given for bare cells

Charge conditions

Rate	Time (h)	Temp. (°C)	Charge current (mA)
Fast	~1	+10 to +45	130
Quick	3 to 4	+5 to +40	40
Standard	16	0 to +50	13
Trickle *		-20 to +50	5.2

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 $+20^{\circ}$ C 0.36

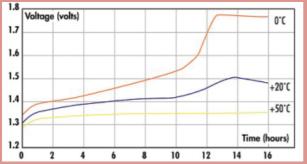


STANDARD SERIES

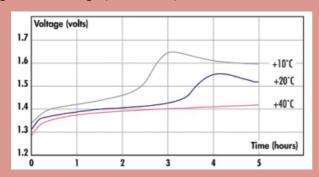
Nickel-Cadmium

VRE 1/3 AA

Voltage in normal charge (current 0.1 C)

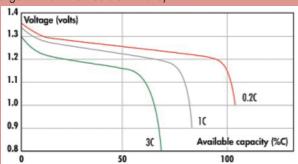


Voltage in fast charge (current 0.3 C)

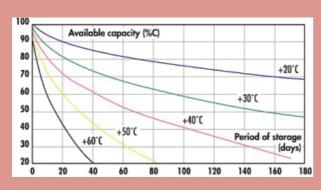


Voltage in discharge at +20°C

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



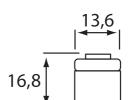
Charge retention (between +20°C and +60°C)



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° 11059-2-0402

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