

High Temperature Series

Nickel-Cadmium

VST AA

The VST AA cell is designed to accept a permanent charge for a minimum of 4 years in high temperature environments (up to + 40°C as required by the IEC international standard) such as in emergency lighting equipments.

To meet customers' requirements, Saft will provide custom-designed and standardized battery packs.

For your battery design and system needs, please contact Saft's engineers.

Applications

- Emergency lighting
- Memory back-up systems
- Security devices

Main advantages

- Good charge efficiency at high temperatures
- Permanent charge especially at low charge rate (down to 20 mA)

Technology

- Foam positive electrode
- Plastic bonded negative electrode

Temperature range in discharge
- 20°C to + 70°C

Storage

Recommended: + 5°C to + 25°C
Relative humidity: 65 ± 5 %



Electrical characteristics

Nominal voltage (V)	1.2
Typical capacity (mAh)*	860
IEC minimum capacity (mAh)*	800
IEC designation	KRMT 15/51
Impedance at 1000 Hz (mΩ)	30

* 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 ± 0.2
Weight (g)	26

Dimensions are given for bare cells.

Charge conditions

Rate	Time (h)	Temp. (°C)	Charge current (mA)
Standard	16	+ 15 to + 40	80
Permanent		+ 15 to + 40	40
Trickle*			12 - 25

* Trickle charge follows full charge.

Maximum discharge current

Continuous (A) at + 20°C	2.8
Peak (A) at + 20°C*	15

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

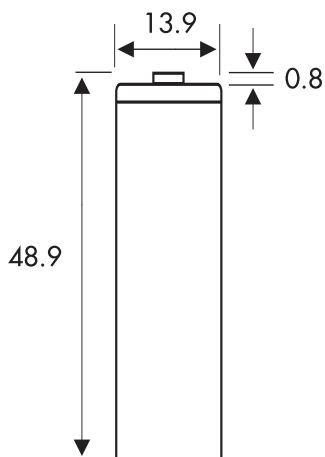


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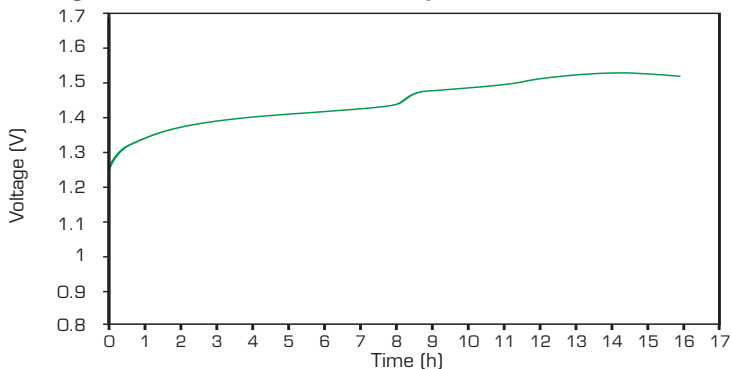
Typical performances

For graphs shown, C is the IEC₅ capacity.

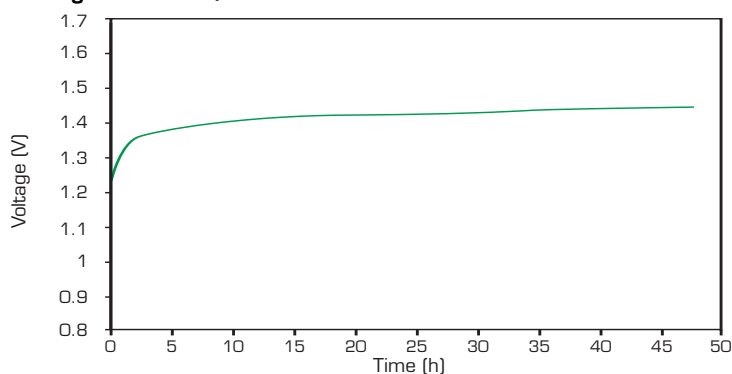
Dimensions in mm.



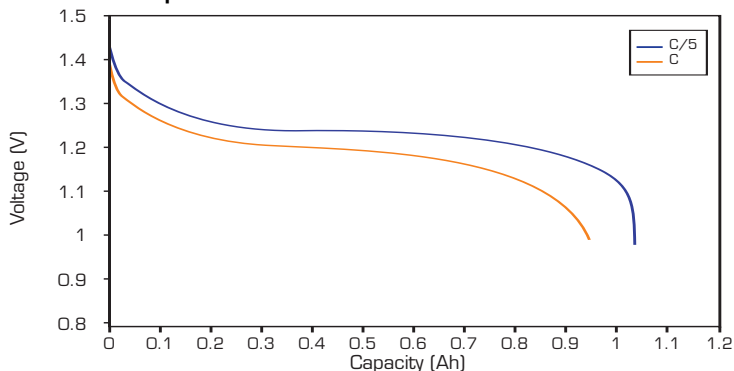
Charge 16h at C/10 at room temperature



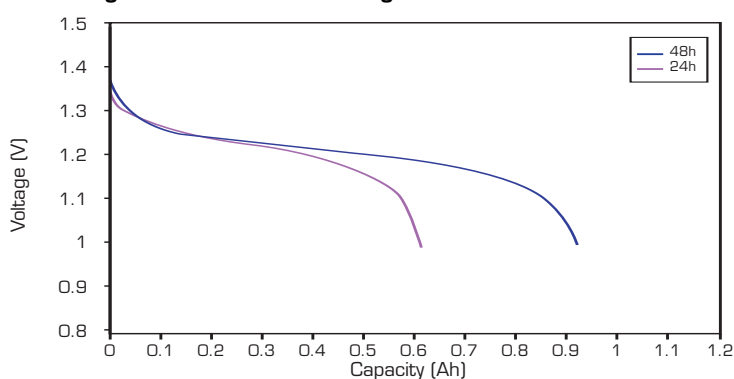
Charge 48h at C/20 at +40°C



Discharge at various rates after charge 16h at C/10 at room temperature



Discharge at C rate after charge at C/20 at +40°C



Data are given for single cells.
Please consult Saft for any use
of this cell in other conditions
than those given in this data sheet.

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