

High Temperature Series

Nickel-Cadmium

VT C



The VT C cell is designed to accept a permanent charge (C/20) for a minimum of 4 years in high temperature environments (up to + 55°C) such as security lighting installations.

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
- Good storage retention

Technology

- Sintered 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)*	2500
IEC minimum capacity (mAh)*	2200
IEC designation	KRMT 27/50
Impedance at 1000 Hz (m Ω)	8

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

Dimensions

Diameter (mm)	25.15 + 0.2 - 0.15
Height (mm)	49.1 ± 0.4
Top projection (mm)	0.8 ± 0.2
Top flat area diameter (mm)	12.0 ± 0.1
Weight (g)	72

Dimensions are given for bare cells.

Charge conditions

Rate	Time (h)	Temp. (°C)	Charge current (mA)
Standard	16	+ 15 to + 40	220
Permanent		+ 15 to + 40	110
Trickle*			55 to 110

* Trickle charge follows full charge.

Maximum discharge current

Continuous (A) at + 20°C	6.6
Peak (A) at + 20°C*	80

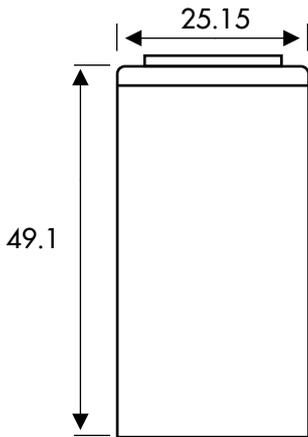
* Peak duration: 0.3 second - final discharge voltage 0.65 volt/cell.



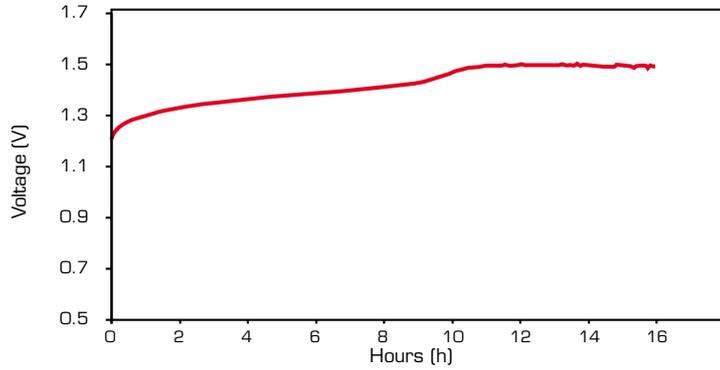
saft

Typical performances

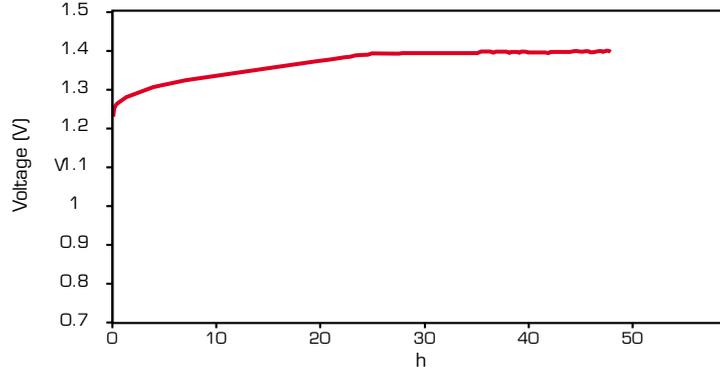
For graphs shown, C is the IEC₅ capacity.
Dimensions are in mm.



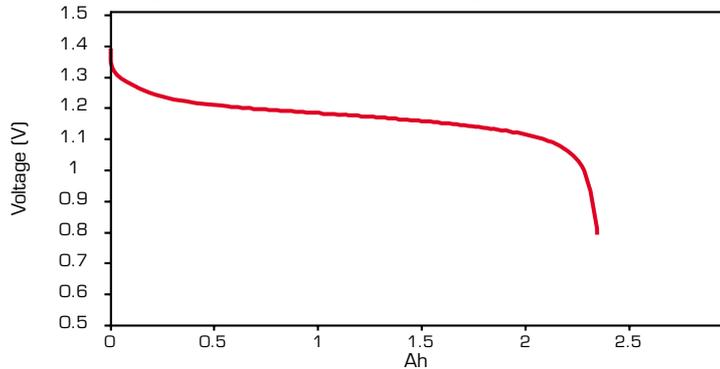
Charge 16h at C/10



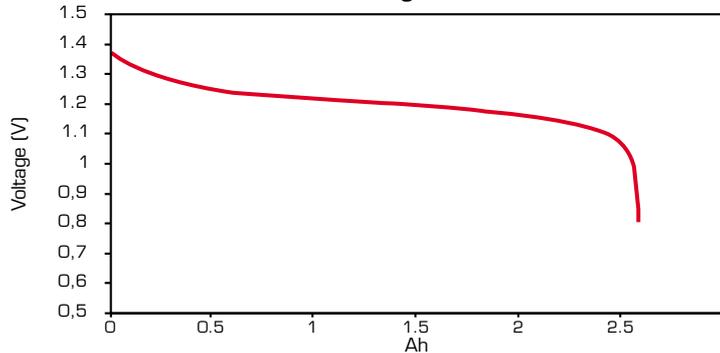
Charge 48h at C/20



Discharge at C at 40°C after charge 48h at C/20 at 40°C



Discharge at C/5



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.

**Saft
Rechargeable Battery Systems**

12, rue Sadi Carnot
93170 Bagnole - France
Tel.: +33 1 49 93 19 18
Fax: +33 1 49 93 19 68
Email: rbs.info@saftbatteries.com

www.saftbatteries.com



SAFT