

High Temperature Series

Nickel-Cadmium

VT C 2500



The VT C 2500 cell is designed to accept a permanent charge (C/20) for a minimum of 4 years in high temperature environments (+ 55°C) such as security lighting and power back-up systems.

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

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

Main advantages

- Superior charge efficiency at high temperatures
- Permanent charge ability
- 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)*	2700
IEC minimum capacity (mAh)*	2500
IEC designation	KRMT 27/50
Impedance at 1000 Hz (m Ω)	6.5

* 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 ± 0.1
Weight (g)	75

Dimensions are given for bare cells.

Charge conditions

Rate	Time (h)	Temp. (°C)	Charge current (mA)
Standard	16	+ 15 to + 55	250
Permanent		+ 15 to + 55	125
Trickle*			62 to 125

End of charge cut-off is requested: - dV method, 5 mV/cell.

* Trickle charge follows full charge.

Maximum discharge current

Continuous (A) at + 20°C	8.5
Peak (A) at + 20°C*	100

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

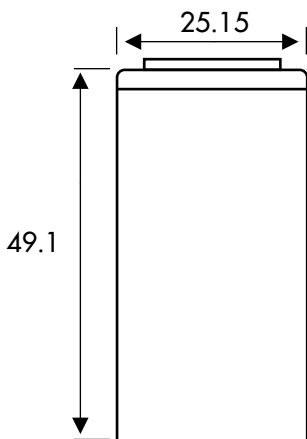


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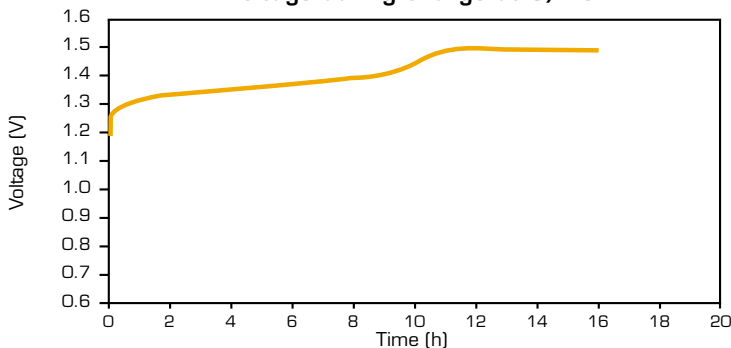
Typical performances

For graphs shown, C is the IEC₅ capacity.

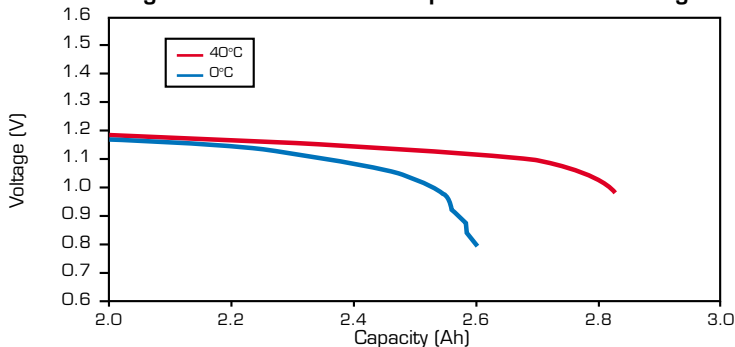
Dimensions are in mm.



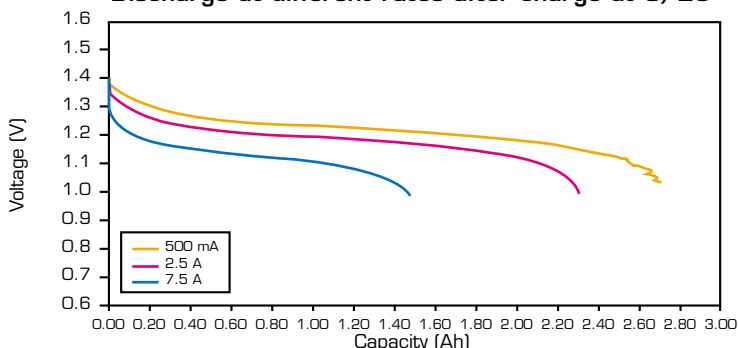
Voltage during charge at C/10



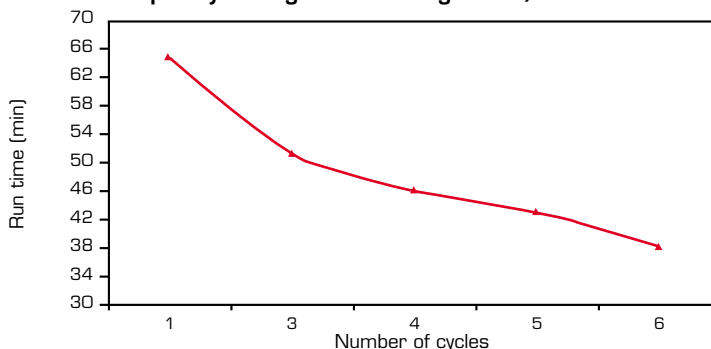
Discharge at C at different temperatures after charge 16 h



Discharge at different rates after charge at C/20



Capacity change in discharge at C/10 at + 55°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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