

High Temperature Series

Nickel-Cadmium

VT F 70



The VT F 70 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 devices.

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
- Professional 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)*	7700
IEC minimum capacity (mAh)*	7000
IEC designation	KRMT 33/91
Impedance at 1000 Hz (m Ω)	5

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

Dimensions

Diameter (mm)	32.15 ± 0.10
Height (mm)	88.8 ± 0.4
Top projection (mm)	1.4 ± 0.4
Top flat area diameter (mm)	5.6
Weight (g)	210

Dimensions are given for bare cells.

Charge conditions

Rate	Time (h)	Temp. (°C)	Charge current (mA)
Standard	16	+ 15 to + 55	700
Permanent		+ 15 to + 55	350
Trickle*			175 to 235

* Trickle charge follows full charge.

Maximum discharge current

Continuous (A) at + 20°C	20
Peak (A) at + 20°C*	150

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

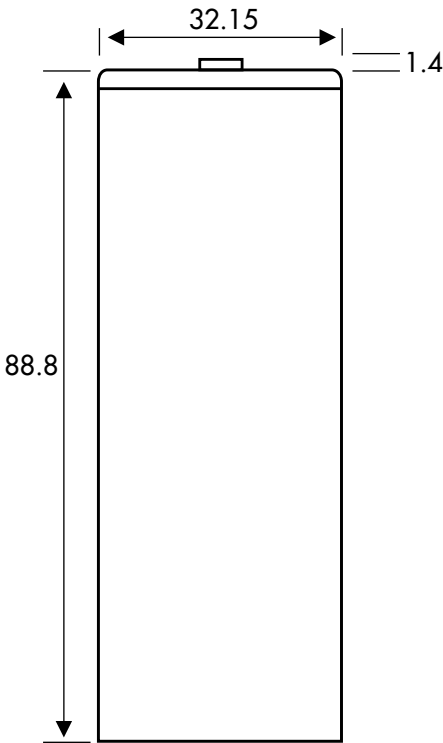


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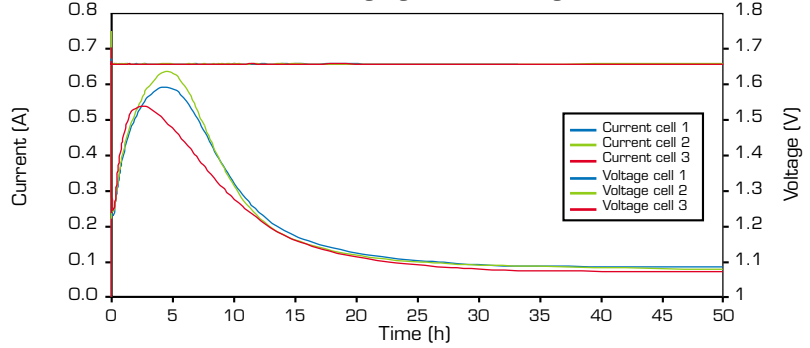
Typical performances

For graphs shown, C is the IEC₅ capacity.

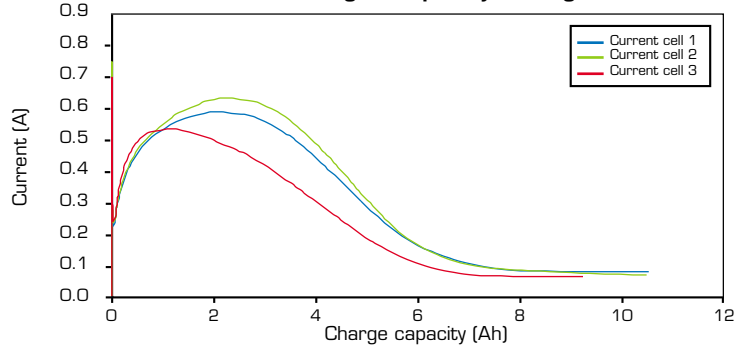
Dimensions are in mm.



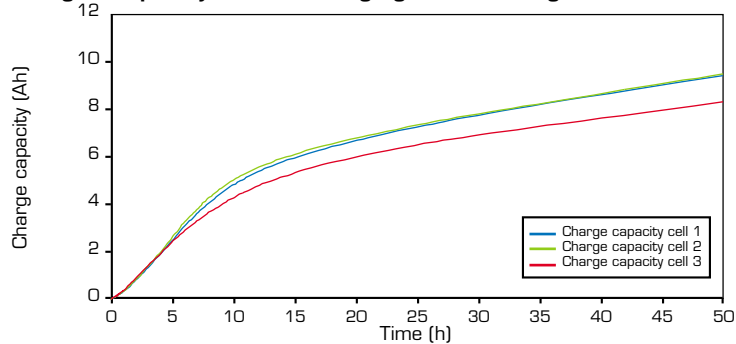
Current evolution versus charging time (charge at 1.65V at -20°C)



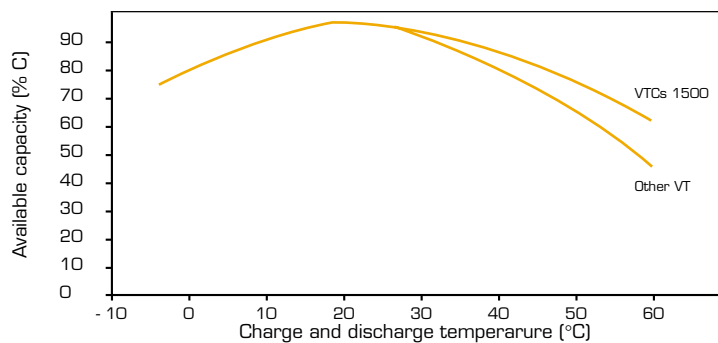
Current evolution versus charged capacity (charge at 1.65V at -20°C)



Charged capacity versus charging time (charge at 1.65V at -20°C)



Discharge at 12A at different temperatures after fast charge, at 4A



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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