High Temperature Series Nickel-Cadmium VT F



The VT F is designed to accept a permanent charge (C/2O) for a minimum of 4 years in high temperature environments (up to + 40°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: $65 \pm 5 \%$

Electrical characteristics

Nominal voltage (V)	1.2
Typical capacity (mAh)*	7500
IEC minimum capacity (mAh)*	7000
IEC designation	KRMT 33/91
Impedance at 1000 Hz (m Ω)	5
* Change 16 h at $C/10$ disphance at $C/5$	

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

Dimensions	
Diameter (mm)	32.15 ± 0.10
Height (mm)	91.1 ± 0.8
Top projection (mm)	3.1 ± 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 + 40	700
Permanent		+ 15 to + 40	350
Trickle*			175 to 235

End of charge cut-off is requested: -dV or dT^C/dt. ull charge.

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20
150

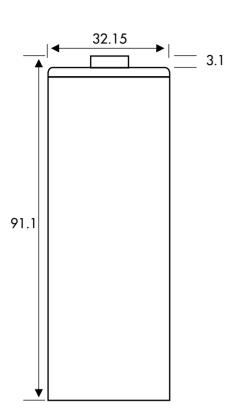
* Peak duration: 0.3 second - final discharge voltage 0.65 volt/cell.

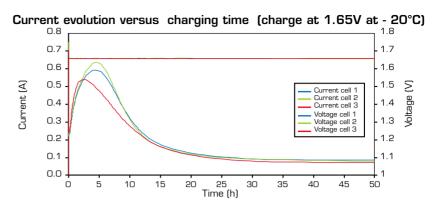


Typical performances

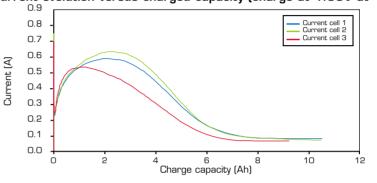
For graphs shown, C is the IEC₅ capacity.

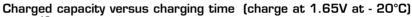
Dimensions are in mm.

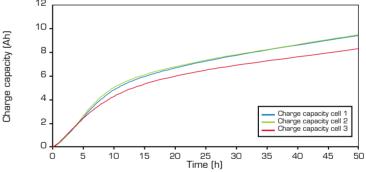




Current evolution versus charged capacity (charge at 1.65V at - 20°C)







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.

Saft Rechargeable Battery Systems

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Saft

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