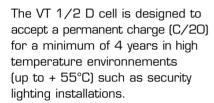
High Temperature Series

Nickel-Cadmium VT 1/2 D



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 33/36
Impedance at 1000 Hz (m Ω)	10

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

Dimensions	
Diameter (mm)	32.15 ± 0.1
Height (mm)	36.2 ± 0.4
Top projection (mm)	1.4 ± 0.4
Top flat area diameter (mm)	5.6
Weight (g)	80

Dimensions are given for bare cells.

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

End of charge cut-off is requested: - dV or dT°C/dt. * Trickle charge follows full charge.

Maximum discharge current	
Continuous (A) at + 20°C	7.7
Peak (A) at + 20°C *	65

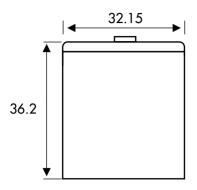
^{*} Peak duration: 0.3 second - final discharge voltage 0.65 volt/cell.

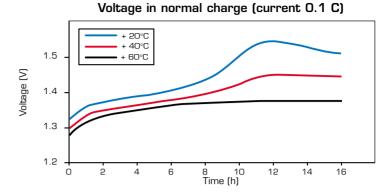


Typical performances

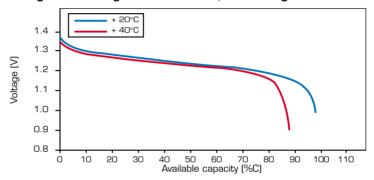
For graphs shown, C is the $\rm IEC_5$ capacity.

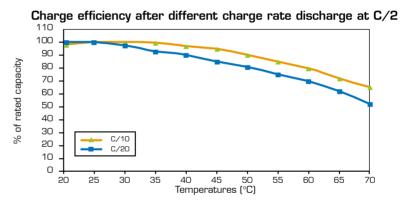
Dimensions are in mm.

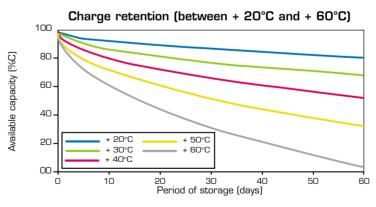




Voltage in discharge at 0.5 C rate (after charge 0.05 C x 48 hours)







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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