

Standard Series Nickel-Cadmium VRE F

Saft continues the extension of the VRE series with the high energy Ni-Cd VRE F cell.

This cell, designed to fit electric bikes as well as military equipment, is also very well adapted for any application where cycling and energy are required.

To meet customers' requirements, Saft provides custom-designed and standardized battery packs and electronic monitoring systems.

For your battery design and system needs, please contact Saft's engineers.

Applications

- Electric bicycles, scooters and wheelchairs
- Professional electronic devices
- Lighting equipment
- Military equipment

Main advantages

- Super high capacity
- Quick charge
- Good storage ability
- Extended cycling performance

Technology

- Sintered positive electrode
- Plastic bonded negative electrode

Temperature range in discharge

- 40°C to + 60°C

Storage

Recommended: + 5°C to + 25°C
Relative humidity: 65 ± 5 %



Electrical characteristics

Nominal voltage (V)	1.2
Typical capacity (mAh)*	8800
IEC minimum capacity (mAh)*	8000
IEC designation	KRH 33/91
Impedance at 1000 Hz (m Ω)	< 4

* 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 ± 0.2
Weight (g)	220

Dimensions are given for bare cells.

Charge conditions

Rate	Time (h)	Temp. (°C)	Charge current (mA)
Quick*	~ 3	+ 10 to + 40	up to 2700
Standard	16	+ 5 to + 50	800
Trickle**			200

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

** Trickle charge follows quick charge.

Maximum discharge current

Continuous (A) at + 20°C	40
Peak (A) at + 20°C*	160

* Please consult Saft for utilization of cell outside this specification.

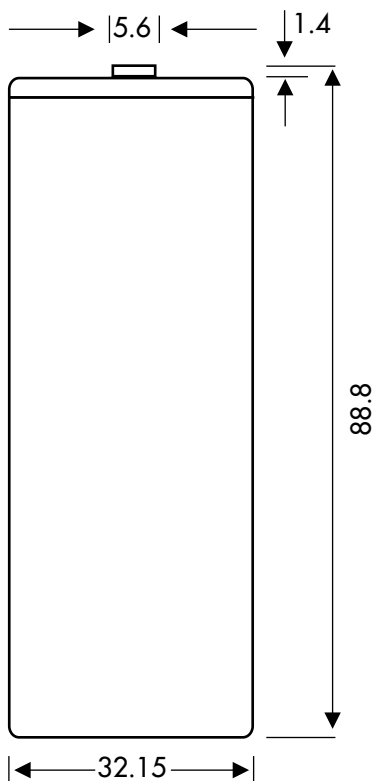


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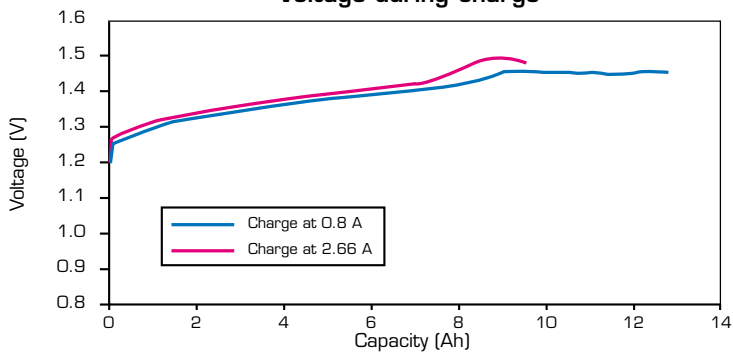
Typical performances

For graphs shown, C is the IEC₅ capacity.

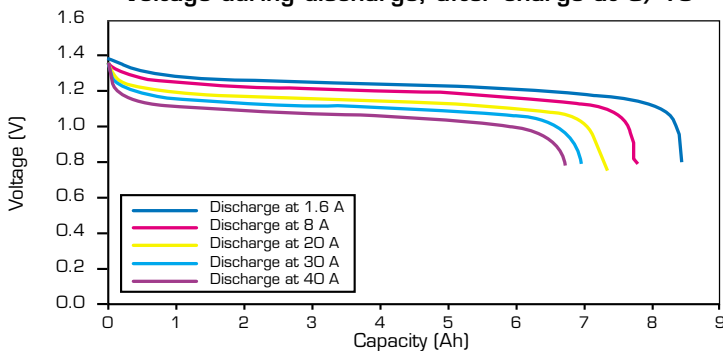
Dimensions are in mm.



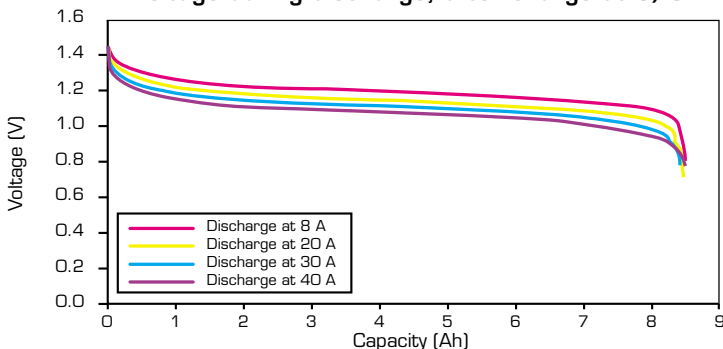
Voltage during charge



Voltage during discharge, after charge at C/10



Voltage during discharge, after charge at C/3



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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