# Standard Series

# Nickel-Cadmium **VRE D 5500**

Engineered for cycling applications Saft's VRE D 5500 cell ideally suits for a wide range of portable applications.

In addition, it is well adapted for applications requiring a permanent charge (C/20) at temperatures of up to + 35°C.

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**

- Electric bicycles, scooters and wheelchairs
- Professional appliances
- Professional lighting
- Lawn and gardening tools
- Vacuum cleaners

## Main advantages

- Super high capacity
- Fast charge
- · Good storage ability
- · Excellent 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)*	5500
IEC minimum capacity (mAh)*	5000
IEC designation	KRHR 33/62
Impedance at 1000 Hz (m $\Omega$ )	<4

<sup>\*</sup> Charge 16 h at C/10, discharge at C/5.

Dimensions	
Diameter (mm)	32.15 ± 0.10
Height (mm)	58.2 ± 0.4
Top projection (mm)	1.4 ± 0.4
Top flat area diameter (mm)	5.6 ± 0.1
Weight (g)	150

Dimensions are given for bare cells.

Charge conditions			
Rate	Time (h)	Temp. (°C)	Charge current (mA)
Fast*	~ 1	+ 10 to + 40	up to 5000
Standard	16	+ 5 to + 50	500
Trickle * *			150

<sup>\*</sup> End of charge cut-off is requested: -dV or dT°C/dt.
\*\* Trickle charge follows fast charge.

Maximum discharge current	
Continuous (A) at + 20°C	50
Peak (A) at + 20°C*	150

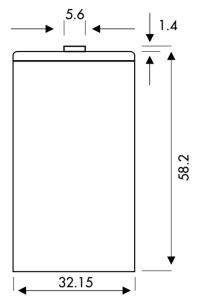
<sup>\*</sup> Peak duration: 0.3 second - final discharge voltage 0.6 volt/cell.

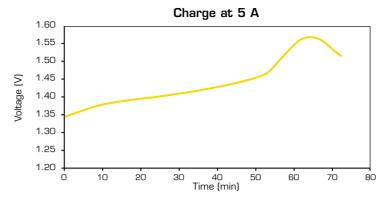


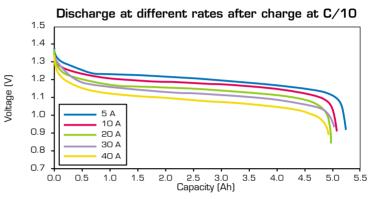
#### Typical performances

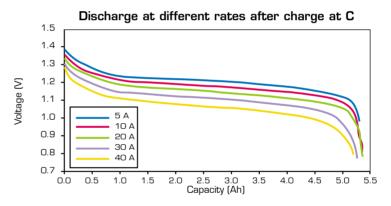
For graphs shown, C is the  $\rm IEC_5$  capacity.

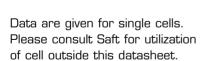
Dimensions are in mm.





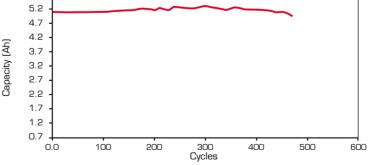






Data in this document are subject to change without notice and become contractual only after written confirmation by Saft.

# Capacity change during cycling at 10 A discharge, after full charge



# Saft Rechargeable Battery Systems

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