Saft, your partner for reliable, intelligent, eco-designed rechargeable battery systems.

Why choose Saft Rechargeable Battery Systems?

Saft is a world leader in high-quality rechargeable batteries. With 80 years of work in this field, our expertise and experience in designing, developing and manufacturing robust and reliable cells and battery systems are unequaled.

Saft is focused on professionals. Our work today is entirely dedicated to delivering products and solutions conceived for professional applications and adapted to the unique needs of a wide variety of users.

Saft is your partner, not just your supplier. If one of our standard offers doesn’t suit your needs, we will work with you to conceive, design and produce a customized solution that does. We can combine our strengths to work closely with your teams to create and build a battery system custom made for your unique requirements, and designed to cost.

Saft is close to you. In an industry where most manufacturing and assembly is done manually in the Far East, Saft is the only industrial company to remain located in Europe, with state-of-the-art, fully automated factories in Nersac, Poitiers and Bordeaux, France. Saft also has battery assembly facilities in the United States, China and many other countries. Saft’s worldwide network means faster delivery times and a highly competitive cost/quality ratio.

Saft does it all. Saft conceives, designs, produces and delivers products. By controlling and supervising the entire end-to-end value chain, we are able to keep a very close watch on quality. Furthermore, the ever-increasing demand for higher-power and higher-energy battery solutions drives us to continuously and heavily invest in research and development. We are always looking for new and better ways to meet your needs.

Saft batteries are intelligent. Choosing Saft means getting more than just batteries. We provide you with a highly advanced and innovative battery system. The technological expertise inside each makes for an intelligent turnkey solution that communicates with other applications, controls its charge and discharge and understands what needs to be done ... so you don’t have to.

Saft is serious about the environment. An industry pioneer in eco-designed products, Saft is working hard to build batteries that meet the goals of sustainable development. Rechargeable batteries are by design kind to the environment, since they can be used many times before needing to be disposed. But when such batteries have finally given their best, Saft works through several national collection and recycling organizations (RBRC in the US, SCRELEC in France, and others in various European countries) to offer a collection and treatment service. In addition, Saft factories adhere strictly to environmental regulations concerning air, water, ground and solid waste standards.
The right battery
for all of your needs

Saft’s complete offer includes standard as well as customized battery systems built with Nickel-Cadmium, Nickel Metal-Hydride and Lithium-ion technologies, all using Saft’s intelligent engineering design and state-of-the-art battery management solutions. Whatever your application, whatever your specifications, whatever your need, there is a Saft battery that fits.

Saft batteries can be found in...

**Buildings and industrial plants**
Alarms, UPS, back-up systems and more.

**Emergency and security systems**
Exit signs, emergency fixtures, conversion kits, alarms and more.

**Personal mobility**
E-bikes, e-scooters, underwater scooters, electrical wheelchairs, lift systems for disabled persons and other personal electric vehicles.

**Professional tools**
Construction, agriculture, gardening and many other professional tools.

**Professional electronics**
Vacuum cleaners, personal care equipment, hand held terminals, audio and video equipment, flashlights, diving and mine lamps and more.

**Medical**
Drug dispensers, cardiac defibrillators, respirators, homecare ventilators, medical carts, monitoring and diagnosis equipment and more.

**Military and defense**
Robots, portable radio communication equipment and more.

**Marine**
Signaling, UPS, back-up systems and more.

**Telecommunication**
Cellular and cordless phones, personal communication systems, private mobile radios, back-up systems for telecom networks and more.
### Ni-Cd

**STANDARD VRE series**

Originally engineered for use in cycling, Saft’s Standard Series can be used for a wide range of applications. The VRE Series is particularly well adapted for cycling applications requiring a rapid charge. Our VRE Standard Series’ high levels of reliability have been time-tested and proven: hundreds of millions of units have been delivered over the years. They offer an excellent cost/performance ratio.

<table>
<thead>
<tr>
<th>Saft Type</th>
<th>IEC Capacity at 0.2C rate</th>
<th>Standard charge (16h)</th>
<th>Quick or fast charge</th>
<th>Typical internal impedance</th>
<th>Max. dimensions for bare cells</th>
<th>Typical weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Nominal voltage</td>
<td>Typical [mAh]</td>
<td>Minimum [mAh]</td>
<td>Current [mA]</td>
<td>Current [mA]</td>
<td>Est. time [h]</td>
</tr>
<tr>
<td><strong>VRE</strong></td>
<td>1.2 volts/cell</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VRE 1/3 AA</td>
<td>165</td>
<td>150</td>
<td>15</td>
<td>150</td>
<td>1</td>
<td>60</td>
</tr>
<tr>
<td>VRE 1/2 AA</td>
<td>330</td>
<td>300</td>
<td>30</td>
<td>300</td>
<td>1</td>
<td>24</td>
</tr>
<tr>
<td>VRE AA 700</td>
<td>780</td>
<td>700</td>
<td>70</td>
<td>700</td>
<td>1</td>
<td>14</td>
</tr>
<tr>
<td>VRE Cs</td>
<td>1400</td>
<td>1300</td>
<td>130</td>
<td>1300</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>VRE Cs 1600</td>
<td>1600</td>
<td>1500</td>
<td>150</td>
<td>1500</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>VRE Cs 1800</td>
<td>1800</td>
<td>1700</td>
<td>170</td>
<td>1700</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>VRE C</td>
<td>2550</td>
<td>2300</td>
<td>230</td>
<td>2300</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>VRE 1/2 D</td>
<td>2550</td>
<td>2400</td>
<td>240</td>
<td>2400</td>
<td>2-3</td>
<td>10</td>
</tr>
<tr>
<td>VRE D</td>
<td>5100</td>
<td>4500</td>
<td>450</td>
<td>4500</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>VRE D 5500</td>
<td>5500</td>
<td>5000</td>
<td>500</td>
<td>5000</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>VRE F</td>
<td>8800</td>
<td>8000</td>
<td>800</td>
<td>8000</td>
<td>1</td>
<td>4</td>
</tr>
</tbody>
</table>

(1) Also available with a high top. Diameter is similar.  
(2) Also available with a low top.  
(3) Up to +40° C temperature environment.  
(4) Up to +55° C temperature environment.
Saft’s VE Series benefits from significant technological upgrades. For example, this series shows a 10% to 15% capacity improvement, and yet its high performance levels are maintained. Saft’s VSE Series uses advanced nickel foam electrode technology, meeting the needs of light and compact portable equipment with both a fast charge and higher capacity.

**HIGH TEMPERATURE VT / VNT / VST Series**

The solutions in these series are perfectly suited to emergency and security equipment in compliance with International (IEC 61951), US (UL 924) and Japanese (JISC 8705) standards. These batteries have been designed to accept a permanent charge (C/20 to C/15) for a minimum of four years in high-temperature environments (up to 40°C/104°F). Higher-end versions of the cells, such as "U" and "70" models, can even withstand a constant temperature of up to 55°C/131°F with a similar life expectancy when permanently charged. The new VNT series benefits from innovative PNE (Plastic-bonded Nickel Electrode) technology, a new positive electrode, offering improved energy density.

### VT / VNT / VST Series

<table>
<thead>
<tr>
<th>Saft Type</th>
<th>IEC Capacity at 0.2C rate</th>
<th>Standard charge (16h)</th>
<th>Recommended permanent charge</th>
<th>Typical internal impedance</th>
<th>Max. dimensions for bare cells</th>
<th>Typical weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>VT AA</td>
<td>700 600</td>
<td>60 30 -</td>
<td>-</td>
<td>45</td>
<td>14.0 50.2 26</td>
<td></td>
</tr>
<tr>
<td>VT Cs</td>
<td>1350 1200</td>
<td>120 60 -</td>
<td>-</td>
<td>12</td>
<td>22.2 42.2 45</td>
<td></td>
</tr>
<tr>
<td>VT Cs 1500</td>
<td>1650 1500</td>
<td>150 75 -</td>
<td>-</td>
<td>7</td>
<td>22.2 42.2 47</td>
<td></td>
</tr>
<tr>
<td>VT Cs 1500U</td>
<td>1650 1500</td>
<td>150 75 -</td>
<td>-</td>
<td>8</td>
<td>22.2 42.2 48</td>
<td></td>
</tr>
<tr>
<td>VT Cs 1600</td>
<td>1750 1600</td>
<td>160 80 -</td>
<td>-</td>
<td>7</td>
<td>22.2 42.2 49</td>
<td></td>
</tr>
<tr>
<td>VT C 2500</td>
<td>2700 2500</td>
<td>250 125 -</td>
<td>-</td>
<td>6</td>
<td>25.3 49.5 75</td>
<td></td>
</tr>
<tr>
<td>VT 1/2 D</td>
<td>2500 2200</td>
<td>220 110 -</td>
<td>-</td>
<td>10</td>
<td>32.2 36.8 90</td>
<td></td>
</tr>
<tr>
<td>VT D (2)</td>
<td>4300 4000</td>
<td>400 200 -</td>
<td>-</td>
<td>6</td>
<td>32.2 60.3 120</td>
<td></td>
</tr>
<tr>
<td>VT D 70 (2 &amp; 4)</td>
<td>4500 4000</td>
<td>400 200 -</td>
<td>-</td>
<td>6</td>
<td>32.2 60.3 128</td>
<td></td>
</tr>
<tr>
<td>VT D U (4)</td>
<td>4700 4100</td>
<td>400 200 -</td>
<td>-</td>
<td>5</td>
<td>32.2 58.6 136</td>
<td></td>
</tr>
<tr>
<td>VT F (3)</td>
<td>7500 7000</td>
<td>700 350 -</td>
<td>-</td>
<td>5</td>
<td>32.2 91.1 196</td>
<td></td>
</tr>
<tr>
<td>VT F 70 (4)</td>
<td>7700 7000</td>
<td>700 350 -</td>
<td>-</td>
<td>5</td>
<td>32.2 89.2 196</td>
<td></td>
</tr>
<tr>
<td>VST AA</td>
<td>880 800</td>
<td>80 40 -</td>
<td>-</td>
<td>30</td>
<td>14.0 49.2 26</td>
<td></td>
</tr>
<tr>
<td>VNT Cs (3)</td>
<td>1650 1600</td>
<td>160 80 -</td>
<td>8</td>
<td>22.2 42.2 45</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VNT Cs U (4)</td>
<td>1650 1600</td>
<td>160 80 -</td>
<td>8</td>
<td>22.2 42.2 45</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VNT C U (4)</td>
<td>2650 2500</td>
<td>250 125 -</td>
<td>8</td>
<td>25.3 49.5 75</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VNT D (2 &amp; 3)</td>
<td>4250 4000</td>
<td>400 200 -</td>
<td>6</td>
<td>32.2 60.3 115</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VNT D U (2 &amp; 4)</td>
<td>4250 4000</td>
<td>400 200 -</td>
<td>6</td>
<td>32.2 60.3 115</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**HIGH ENERGY VE and VSE series**

Saft’s VE Series benefits from significant technological upgrades. For example, this series shows a 10% to 15% capacity improvement, and yet its high performance levels are maintained. Saft’s VSE Series uses advanced nickel foam electrode technology, meeting the needs of light and compact portable equipment with both a fast charge and higher capacity.

### VE / VSE series

<table>
<thead>
<tr>
<th>Saft Type</th>
<th>IEC Capacity at 0.2C rate</th>
<th>Standard charge (16h)</th>
<th>Quick or fast charge</th>
<th>Typical internal impedance</th>
<th>Max. dimensions for bare cells</th>
<th>Typical weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>VE 2/3 A</td>
<td>670 600</td>
<td>60 600 1</td>
<td>25 16.7 28.0 18</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VE C</td>
<td>2400 2200</td>
<td>220 2200 1</td>
<td>5 25.3 49.5 75</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VSE AA (5)</td>
<td>980 940</td>
<td>94 940 1</td>
<td>16 14.0 49.2 22</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VSE A</td>
<td>1850 1700</td>
<td>170 1700 1</td>
<td>17 17.0 49.5 35</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Ni-MH**

**Super High Energy and High Energy Back-Up VH and VHT Series**

Designed for high energy, high power portable applications demanding fast charges and discharges over an extended lifetime, Saft’s line of Ni-MH VH cylindrical cells benefit from all of our technological expertise. The VH Cs, VH D and VH F Series are specifically designed for cordless power tools, personal mobility and other professional applications.

The VHT Series has been engineered for long life and to accept a permanent charge at high temperatures, such as in emergency back-up and photovoltaic applications.

---

**Saft Type**

<table>
<thead>
<tr>
<th>Saft Type</th>
<th>IEC Capacity at 0.2C rate</th>
<th>Standard charge (16h)</th>
<th>Quick or fast charge</th>
<th>Typical internal impedance</th>
<th>Max. dimensions for bare cells</th>
<th>Typical weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Nominal voltage 1.2 volts/cell</td>
<td>Typical [mAh]</td>
<td>Minimum [mAh]</td>
<td>Current [mA]</td>
<td>Current [mA]</td>
<td>Est. time [h]</td>
</tr>
<tr>
<td><strong>VH</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VH AAA</td>
<td>680</td>
<td>650</td>
<td>65</td>
<td>650</td>
<td>1</td>
<td>50</td>
</tr>
<tr>
<td>VH AA 1500</td>
<td>1500</td>
<td>1400</td>
<td>140</td>
<td>1400</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>VH AA 1700</td>
<td>1700</td>
<td>1600</td>
<td>160</td>
<td>1600</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>VH 4/3 A</td>
<td>3750</td>
<td>3700</td>
<td>370</td>
<td>2000</td>
<td>1-2</td>
<td>20</td>
</tr>
<tr>
<td>VH Cs 3200 XL</td>
<td>3200</td>
<td>3000</td>
<td>300</td>
<td>3000</td>
<td>1-2</td>
<td>4</td>
</tr>
<tr>
<td>VH Cs 3500</td>
<td>3500</td>
<td>3200</td>
<td>320</td>
<td>3000</td>
<td>2-3</td>
<td>4</td>
</tr>
<tr>
<td>VH D 9500 XP</td>
<td>9500</td>
<td>9000</td>
<td>900</td>
<td>5000</td>
<td>2-3</td>
<td>3</td>
</tr>
<tr>
<td>VH F 16000 XP</td>
<td>16000</td>
<td>15000</td>
<td>1500</td>
<td>5000</td>
<td>3-4</td>
<td>3</td>
</tr>
</tbody>
</table>

**XP**: Extended Power - **XL**: Extended Life

---

**Button range - HB Series**

HB nickel metal-hydride button cells have been designed to provide a permanent charge to supply back-up memory for professional applications. Assembly has been engineered to facilitate insertion into integrated circuits.

---

<table>
<thead>
<tr>
<th>Saft Type</th>
<th>IEC Capacity at 0.2C rate</th>
<th>Standard charge (16h)</th>
<th>Quick or fast charge</th>
<th>Typical internal impedance</th>
<th>Max. dimensions for bare cells</th>
<th>Typical weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Nominal voltage 1.2 volts/cell</td>
<td>Typical [mAh]</td>
<td>Minimum [mAh]</td>
<td>Current [mA]</td>
<td>Current [mA]</td>
<td>Time [h]</td>
</tr>
<tr>
<td><strong>HB</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HB 80</td>
<td>80</td>
<td>70</td>
<td>7</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>HB 250</td>
<td>250</td>
<td>240</td>
<td>25</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>HB 350</td>
<td>380</td>
<td>350</td>
<td>35</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
Smart VH module

The Smart VH module benefits from Saft’s latest improvements regarding cells, housing, connections and electronic devices, ensuring safety, cycle and calendar life, reliability and cost control.

The technological advancement of the Smart VH modules allows several batteries to be used in parallel for increased capacity, to communicate with an application and to deliver high current (40 A). Specially designed for personal mobility applications, they have a long life, high reliability and require zero maintenance. The Smart VH module is also suitable for all applications requiring power and autonomy.

### Electrical characteristics

<table>
<thead>
<tr>
<th>Configuration</th>
<th>VH D</th>
<th>205</th>
<th>305</th>
<th>10S</th>
<th>205</th>
<th>305</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal voltage (V)</td>
<td>12</td>
<td>24</td>
<td>36</td>
<td>12</td>
<td>24</td>
<td>36</td>
</tr>
<tr>
<td>Typical capacity at C/3 drain rate</td>
<td>9</td>
<td></td>
<td></td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimum capacity at end of life (Ah)</td>
<td>6</td>
<td></td>
<td></td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific energy (Wh/kg)</td>
<td>51</td>
<td>57</td>
<td>58</td>
<td>56</td>
<td>62</td>
<td>64</td>
</tr>
<tr>
<td>Energy density (Wh/dm³)</td>
<td>93</td>
<td>103</td>
<td>112</td>
<td>106</td>
<td>124</td>
<td>135</td>
</tr>
</tbody>
</table>

### Mechanical characteristics

- Height (mm): H (99, 159, 219, 129, 219, 309)
- Lenght (mm): L (176)
- Width (mm): W (73.5)
- Weight (kg): 2.1, 3.8, 5.6, 3.2, 5.8, 8.4, 1.7, 2.9, 4.0
- Volume (l): 1.3, 2.1, 2.9, 1.7, 2.9, 4.0

### Li-ion range

**MP / VL series**

As part of its ongoing commitment to advanced technology systems, Saft offers a range of powerful rechargeable lithium-ion systems. With their greater energy density, lower weight and longer life, lithium-ion systems represent a real breakthrough, answering new needs and opening up new applications. Lithium-ion systems are fully integrated, innovative, intelligent and safe.

Li-ion technology must be accurately managed in operation, as it does not allow for overcharge, over-discharge or over-current. Saft Li-ion systems include both cells and electronic protection circuit boards for these reasons.

### Electronic protection circuit boards

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Serial</th>
<th>1S</th>
<th>1S</th>
<th>2S</th>
<th>3S</th>
<th>4S</th>
<th>5S</th>
<th>6S</th>
<th>7S</th>
<th>8S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charge Max current (A)</td>
<td>1.5</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Discharge Min/Max continuous current for energy cells (A)</td>
<td>up to 1.5</td>
<td>1.5 / 6</td>
<td>1.5 / 6</td>
<td>up to 6</td>
<td>up to 6</td>
<td>up to 6</td>
<td>up to 3</td>
<td>up to 3</td>
<td>up to 3</td>
<td></td>
</tr>
<tr>
<td>Max peak current (A/ms)</td>
<td>-</td>
<td>20 A / 1 ms</td>
<td>20 A / 1 ms</td>
<td>20 A / 1 ms</td>
<td>20 A / 1 ms</td>
<td>20 A / 1 ms</td>
<td>20 A / 1 ms</td>
<td>20 A / 1 ms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Availability</td>
<td>available</td>
<td>available</td>
<td>to be developed</td>
<td>available</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(5) depending on ambient temperature of cells, and parallel configuration. (6) IS = Compliant with the EN 50020 “Intrinsic Safety” Standard (class T6) for ATEX applications.
(7) Integration™ = Height & weight values include protection circuits.
SAFT RECHARGEABLE BATTERY SYSTEMS SALES NETWORK

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www.saftbatteries.com

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Fax : +39 02 89 28 07 62
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