Standard Series
Nickel-Cadmium
VRE AA 600

Saft has extended its Ni-Cd offer with the high energy VRE AA 600 cell.

Designed to fit cycling applications such as home appliances, these cells ideally suit for cordless equipment and advanced technology appliances (professional appliances).

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
- Home appliances
- Personal care

Main advantages
- High energy series giving a higher operating time
- Good storage retention
- Fast charge
- Cycling application

Technology
- Sintered positive electrode
- Plastic bonded negative electrode

Temperature range in discharge
- 20°C to + 60°C

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

Electrical characteristics

<table>
<thead>
<tr>
<th>Nominal voltage (V)</th>
<th>1.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical capacity (mAh)*</td>
<td>700</td>
</tr>
<tr>
<td>IEC minimum capacity (mAh)*</td>
<td>600</td>
</tr>
<tr>
<td>IEC designation</td>
<td>KRMR 15/51</td>
</tr>
<tr>
<td>Impedance at 1000 Hz (m Ω)</td>
<td>16</td>
</tr>
</tbody>
</table>

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

Dimensions

<table>
<thead>
<tr>
<th>Diameter (mm)</th>
<th>13.9 ± 0.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height (mm)</td>
<td>48.9 ± 0.3</td>
</tr>
<tr>
<td>Top projection (mm)</td>
<td>0.8 ± 0.2</td>
</tr>
<tr>
<td>Top flat area diameter (mm)</td>
<td>4 ± 0.2</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>19</td>
</tr>
</tbody>
</table>

Dimensions are given for bare cells.

Charge conditions

<table>
<thead>
<tr>
<th>Rate</th>
<th>Time (h)</th>
<th>Temp. (°C)</th>
<th>Charge current (mA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fast*</td>
<td>~1</td>
<td>+ 10 to + 45</td>
<td>up to 600</td>
</tr>
<tr>
<td>Standard</td>
<td>16</td>
<td>0 to + 50</td>
<td>60</td>
</tr>
<tr>
<td>Trickle**</td>
<td>15 to 30</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* 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 | 1.8 |
| Peak (A) at + 20°C* | 41 |

* Peak duration: 0.3 second - final discharge voltage 0.65 volt/cell.
Typical performances
For graphs shown, C is the IEC capacity.
Dimensions are in mm.

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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