**Specification**

**Cells Per Unit**
1

**Voltage Per Unit**
2

**Capacity**
800Ah@10hr-rate to 1.80V per cell @25℃

**Weight**
Approx. 50.0Kg (Tolerance ±1.5%)

**Internal Resistance**
Approx. 0.46 mΩ

**Terminal**
F10(M8)

**Max. Discharge Current**
3500A (5 sec)

**Maximum Charging Current**
220.0 A

**Cycle Use Voltage**
2.30 V~2.33 V @ 25℃

**Temperature Compensation**
-4mV/℃/Cell

**Design Life**
20 years

**Container Material**
A.B.S. White/Red. UL94-HB/UL94-V0.

**Operating Temperature Range**
Discharge: -20℃~60℃
Charge: 0℃~50℃
Storage: -20℃~60℃

**Normal Operating Temperature Range**
25℃±5℃

**Self Discharge**
The batteries can be stored for up to 6 months at 25℃ and then recharging is recommended. Monthly Self-discharge ratio is less than 4% at 25℃. Please charged batteries before using.

**Constant Current Discharge Characteristics :A(25℃)**

<table>
<thead>
<tr>
<th>F.V/Time</th>
<th>1HR</th>
<th>2HR</th>
<th>3HR</th>
<th>4HR</th>
<th>5HR</th>
<th>8HR</th>
<th>10HR</th>
<th>24HR</th>
<th>48HR</th>
<th>72HR</th>
<th>100HR</th>
<th>120HR</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.60V</td>
<td>489.2</td>
<td>295.9</td>
<td>220.6</td>
<td>174.4</td>
<td>147.0</td>
<td>100.3</td>
<td>85.86</td>
<td>37.78</td>
<td>19.89</td>
<td>13.63</td>
<td>9.99</td>
<td>8.54</td>
</tr>
<tr>
<td>1.65V</td>
<td>480.0</td>
<td>290.9</td>
<td>217.2</td>
<td>172.0</td>
<td>145.2</td>
<td>99.2</td>
<td>85.00</td>
<td>37.40</td>
<td>19.69</td>
<td>13.49</td>
<td>9.89</td>
<td>8.45</td>
</tr>
<tr>
<td>1.70V</td>
<td>467.8</td>
<td>284.2</td>
<td>212.7</td>
<td>168.8</td>
<td>142.8</td>
<td>97.73</td>
<td>83.85</td>
<td>36.89</td>
<td>19.43</td>
<td>13.31</td>
<td>9.76</td>
<td>8.34</td>
</tr>
<tr>
<td>1.75V</td>
<td>451.0</td>
<td>275.1</td>
<td>206.5</td>
<td>164.4</td>
<td>139.4</td>
<td>95.66</td>
<td>82.26</td>
<td>36.19</td>
<td>19.06</td>
<td>13.06</td>
<td>9.57</td>
<td>8.18</td>
</tr>
<tr>
<td>1.80V</td>
<td>428.0</td>
<td>262.4</td>
<td>198.0</td>
<td>158.3</td>
<td>134.8</td>
<td>92.78</td>
<td>80.03</td>
<td>35.21</td>
<td>18.54</td>
<td>12.70</td>
<td>9.32</td>
<td>7.96</td>
</tr>
<tr>
<td>1.85V</td>
<td>395.3</td>
<td>244.4</td>
<td>185.7</td>
<td>149.5</td>
<td>128.0</td>
<td>88.59</td>
<td>76.77</td>
<td>33.78</td>
<td>17.79</td>
<td>12.19</td>
<td>8.94</td>
<td>7.63</td>
</tr>
</tbody>
</table>

**Constant Power Discharge Characteristics :WPC(25℃)**

<table>
<thead>
<tr>
<th>F.V/Time</th>
<th>1HR</th>
<th>2HR</th>
<th>3HR</th>
<th>4HR</th>
<th>5HR</th>
<th>8HR</th>
<th>10HR</th>
<th>24HR</th>
<th>48HR</th>
<th>72HR</th>
<th>100HR</th>
<th>120HR</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.60V</td>
<td>914.8</td>
<td>560.8</td>
<td>421.3</td>
<td>334.9</td>
<td>283.4</td>
<td>196.0</td>
<td>168.8</td>
<td>74.3</td>
<td>39.1</td>
<td>26.8</td>
<td>19.6</td>
<td>16.8</td>
</tr>
<tr>
<td>1.65V</td>
<td>907.0</td>
<td>555.3</td>
<td>417.4</td>
<td>332.0</td>
<td>281.3</td>
<td>194.4</td>
<td>167.4</td>
<td>73.7</td>
<td>38.8</td>
<td>26.6</td>
<td>19.5</td>
<td>16.6</td>
</tr>
<tr>
<td>1.70V</td>
<td>886.9</td>
<td>544.2</td>
<td>409.8</td>
<td>326.6</td>
<td>277.2</td>
<td>191.7</td>
<td>165.3</td>
<td>72.7</td>
<td>38.3</td>
<td>26.2</td>
<td>19.2</td>
<td>16.4</td>
</tr>
<tr>
<td>1.75V</td>
<td>859.5</td>
<td>529.2</td>
<td>399.6</td>
<td>319.3</td>
<td>271.6</td>
<td>188.0</td>
<td>162.3</td>
<td>71.4</td>
<td>37.6</td>
<td>25.8</td>
<td>18.9</td>
<td>16.1</td>
</tr>
<tr>
<td>1.80V</td>
<td>819.6</td>
<td>507.4</td>
<td>384.6</td>
<td>308.5</td>
<td>263.5</td>
<td>182.8</td>
<td>158.1</td>
<td>69.6</td>
<td>36.6</td>
<td>25.1</td>
<td>18.4</td>
<td>15.7</td>
</tr>
<tr>
<td>1.85V</td>
<td>762.3</td>
<td>475.0</td>
<td>362.4</td>
<td>292.4</td>
<td>251.1</td>
<td>174.9</td>
<td>151.9</td>
<td>66.9</td>
<td>35.2</td>
<td>24.1</td>
<td>17.7</td>
<td>15.1</td>
</tr>
</tbody>
</table>

(Note) The above characteristics are average values obtained within three charge/discharge cycle not the minimum values.

**Feature**

DC-C series lead-carbon batteries use functional activated carbon and graphene as carbon materials, which are added to the negative plate of the battery to make lead carbon batteries have the advantages of both lead-acid batteries and super capacitors. It not only improves the ability of rapid charge and discharge, but also greatly prolongs the battery life, more than 2000 cycles at 80％DOD. It is more suitable for the application of PSOC.

**Application**

- Home energy storage system
- Smart power grid and micro-grid system
- Distributed energy storage system
- Solar and wind energy storage system
- Solar power generation grid or off-grid energy storage system
- Generation and battery hybrid energy storage system

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**SHENZHEN RITAR POWER CO.,LTD.**

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DC2-800C (2V800Ah)

Dimensions

Reference Capacity

<table>
<thead>
<tr>
<th>Hour Rate</th>
<th>C10 (Ah)</th>
<th>C72 (Ah)</th>
<th>C100 (Ah)</th>
<th>C120 (Ah)</th>
</tr>
</thead>
<tbody>
<tr>
<td>F.V (V/Cell)</td>
<td>1.80</td>
<td>1.85</td>
<td>1.85</td>
<td>1.85</td>
</tr>
<tr>
<td>Capacity (Ah)</td>
<td>800.0</td>
<td>877.7</td>
<td>894.0</td>
<td>915.6</td>
</tr>
</tbody>
</table>

Characteristic Curve

Discharge Characteristics Curve

Charge Characteristic Curve for Cycle Use (I,U)

Effect of Temperature on Long Term Life

Cycle Life in Relation to Depth of Discharge

(Note) All above information shall be changed without prior notice, Ritar reserves the right to explain and update the latest information.

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