PC1.3-6 6V 1.3AH

SLA Battery

- Completely sealed, maintenance-free, low self-discharge
- State of the art AGM and grid alloy formula technology
- Non-spillable, stable quality and high reliability with excellent re-charging performance
- Floating and standby use up to: 5 years
- Cycle use: Up to 260 cycles at 100% DoD
- Cycle use: Up to 500 Cycles at 50% DoD
- Container and Cover Material – ABS UL94-HB (optional UL94-V0)
- Transportation - D.O.T., I.A.T.A. & F.A.A.

| Capacity (25°C) | 20HR (0.065A, 5.25V) = 1.30AH  
10HR (0.12A, 5.25V) = 1.20AH  
5HR (0.21A, 5.25V) = 1.05AH  
1HR (0.78A, 5.25V) = 0.78AH |
|-----------------|---------------------------------|
| Operating Temperature Range | Charge = -15°C to +50°C  
Discharge = -20°C to +60°C  
Storage = -20°C to +60°C |
| Approx. Weight | 0.29Kg |
| Internal Resistance | Fully charged at 25°C : ≤ 45mΩ |
| Self Discharge | 3% per month at (25°C) |
| Capacity Affected by Temp. (20HR) | 40°C = 102%  
25°C = 100%  
0°C = 85%  
-15°C = 65% |
| Charge Voltage (25°C) | Cycle Use = 7.2-7.35V(-30/mV/°C)  
Max Current = 0.39A  
Float Use = 6.75-6.9V(-20mV/°C) |
| Dimensions (Nominal) | Length: 97mm (3.82 in.)  
Width: 24mm (0.94 in.)  
Height: 51mm (2.01 in.)  
Total Height: 55mm (2.17 in.) |

Applications

- Multipurpose Alarm & Security System
- Telecommunications Comm. Power Supply
- UPS Elec. Power System (EPS)
- Medical Equipment Emergency Backup Power
- DC Power Supply Auto Control System
- Traffic Control Signaling
- Emergency Lighting

Terminal Type

F1 0.187” x 0.032” quick disconnect tabs
Effect of Temperature on Capacity 25°C (77°F)

Capacity Retention Characteristic

Trickle (or Float) Service Life

Cycle Service Life

Regular Charge / Float Charge / Storage
- Charging voltage temperature compensation needs to be applied when temperature is below 0°C and above +45°C.
- Charging in temperatures below 0°C, the charge current should not exceed 0.1C as the core battery temperature can increase rapidly and damage the battery.
- During floating charge or when in storage, the life of the battery is cut in half for every 8°C temperature rise over 25°C.

Discharge
- Discharging at elevated temperatures improves performance of the battery yet shortens its life due to accelerated aging.
- Low temperature affects the battery internal resistance and lowers its capacity. The battery provides 100% specified capacity at 25°C. It will deliver 50% of its stated capacity at -20°C with 0.1C discharge current and 20% with 2C discharge current.

Constant Current Discharge (A) at 25°C (77°F)

<table>
<thead>
<tr>
<th>F.V/Time</th>
<th>5min</th>
<th>10min</th>
<th>15min</th>
<th>30min</th>
<th>1h</th>
<th>2h</th>
<th>3h</th>
<th>4h</th>
<th>5h</th>
<th>6h</th>
<th>10h</th>
<th>20h</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.80V/cell</td>
<td>3.42</td>
<td>2.52</td>
<td>2.02</td>
<td>1.26</td>
<td>0.77</td>
<td>0.49</td>
<td>0.31</td>
<td>0.25</td>
<td>0.21</td>
<td>0.19</td>
<td>0.11</td>
<td>0.06</td>
</tr>
<tr>
<td>1.75V/cell</td>
<td>3.83</td>
<td>2.70</td>
<td>2.14</td>
<td>1.29</td>
<td>0.78</td>
<td>0.50</td>
<td>0.31</td>
<td>0.26</td>
<td>0.21</td>
<td>0.19</td>
<td>0.12</td>
<td>0.07</td>
</tr>
<tr>
<td>1.70V/cell</td>
<td>4.23</td>
<td>2.89</td>
<td>2.26</td>
<td>1.32</td>
<td>0.79</td>
<td>0.51</td>
<td>0.31</td>
<td>0.26</td>
<td>0.21</td>
<td>0.20</td>
<td>0.12</td>
<td>0.07</td>
</tr>
<tr>
<td>1.67V/cell</td>
<td>4.48</td>
<td>2.98</td>
<td>2.31</td>
<td>1.33</td>
<td>0.80</td>
<td>0.51</td>
<td>0.32</td>
<td>0.26</td>
<td>0.21</td>
<td>0.20</td>
<td>0.12</td>
<td>0.07</td>
</tr>
<tr>
<td>1.60V/cell</td>
<td>4.78</td>
<td>3.20</td>
<td>2.46</td>
<td>1.35</td>
<td>0.80</td>
<td>0.51</td>
<td>0.32</td>
<td>0.26</td>
<td>0.21</td>
<td>0.20</td>
<td>0.12</td>
<td>0.07</td>
</tr>
</tbody>
</table>

Constant Power Discharge (W) at 25°C (77°F)

<table>
<thead>
<tr>
<th>F.V/Time</th>
<th>5min</th>
<th>10min</th>
<th>15min</th>
<th>30min</th>
<th>1h</th>
<th>2h</th>
<th>3h</th>
<th>4h</th>
<th>5h</th>
<th>6h</th>
<th>10h</th>
<th>20h</th>
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</thead>
<tbody>
<tr>
<td>1.80V/cell</td>
<td>7.23</td>
<td>5.30</td>
<td>4.28</td>
<td>2.67</td>
<td>1.63</td>
<td>1.04</td>
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<td>0.53</td>
<td>0.46</td>
<td>0.39</td>
<td>0.24</td>
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<tr>
<td>1.75V/cell</td>
<td>8.10</td>
<td>5.67</td>
<td>4.53</td>
<td>2.73</td>
<td>1.65</td>
<td>1.06</td>
<td>0.66</td>
<td>0.54</td>
<td>0.46</td>
<td>0.40</td>
<td>0.24</td>
<td>0.13</td>
</tr>
<tr>
<td>1.70V/cell</td>
<td>8.96</td>
<td>5.91</td>
<td>4.77</td>
<td>2.79</td>
<td>1.68</td>
<td>1.07</td>
<td>0.66</td>
<td>0.54</td>
<td>0.47</td>
<td>0.41</td>
<td>0.25</td>
<td>0.14</td>
</tr>
<tr>
<td>1.67V/cell</td>
<td>9.14</td>
<td>6.09</td>
<td>4.89</td>
<td>2.81</td>
<td>1.69</td>
<td>1.08</td>
<td>0.66</td>
<td>0.54</td>
<td>0.47</td>
<td>0.41</td>
<td>0.25</td>
<td>0.14</td>
</tr>
<tr>
<td>1.60V/cell</td>
<td>9.75</td>
<td>6.34</td>
<td>5.15</td>
<td>2.86</td>
<td>1.69</td>
<td>1.08</td>
<td>0.67</td>
<td>0.55</td>
<td>0.47</td>
<td>0.41</td>
<td>0.25</td>
<td>0.14</td>
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