PC6-6 6V 6.0AH
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 (0.30A, 5.25V) = 6.00AH  
|                | 10HR (5.60A, 5.25V) = 5.60AH  
|                | 5HR (0.99A, 5.25V) = 4.95AH  
|                | 1HR (3.44A, 5.25V) = 3.44AH  |

| Operating Temperature Range | Charge = -15°C to +50°C  
|                            | Discharge = -20°C to +60°C  
|                            | Storage = -20°C to +60°C  |

| Approx. Weight | 1.15kg  
| Internal Resistance | Fully charged at 25°C ≤ 20mΩ  
| 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 (-15mV/°C)  
|                      | Max Current = 1.81A  
|                      | Float Use = 6.75-6.9V (-10mV/°C)  

| Dimensions (Nominal) | Length: 85mm (3.35 in.)  
|                      | Width: 49mm (1.93 in.)  
|                      | Height: 112mm (4.41 in.)  
|                      | Total Height: 118mm (4.65 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  
- **F2**: 0.250” x 0.032” quick disconnect tabs  

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**Effect of Temperature on Capacity 25°C (77°F)**

- Capacity %
  - 0°C (32°F)
  - 10°C (50°F)
  - 20°C (68°F)
  - 30°C (86°F)
  - 40°C (104°F)

**Capacity Retention Characteristic**

- Remaining Capacity (%)
  - 0°C (32°F)
  - 10°C (50°F)
  - 20°C (68°F)
  - 30°C (86°F)
  - 40°C (104°F)

**Trickle (or Float) Service Life**

- Life (years)
  - Ambient Temperature

**Cycle Service Life**

- Capacity (%)
  - 100% DOD
  - 50% DOD
  - 30% DOD

**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>
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<tbody>
<tr>
<td>1.80V/Cell</td>
<td>17.4</td>
<td>11.4</td>
<td>9.3</td>
<td>6.1</td>
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<td>3.44</td>
<td>1.97</td>
<td>1.49</td>
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<td>2.02</td>
<td>1.53</td>
<td>1.23</td>
<td>1.02</td>
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<td>10.8</td>
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<td>3.63</td>
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<td>1.59</td>
<td>1.28</td>
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<td>3.67</td>
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<td>1.64</td>
<td>1.32</td>
<td>1.08</td>
<td>0.92</td>
<td>0.59</td>
<td>0.31</td>
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### Constant Power Discharge (W) at 25°C (77°F)

<table>
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<th>10min</th>
<th>15min</th>
<th>30min</th>
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<th>2h</th>
<th>3h</th>
<th>4h</th>
<th>5h</th>
<th>6h</th>
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<tbody>
<tr>
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<td>1.12</td>
<td>0.63</td>
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