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# GS Battery

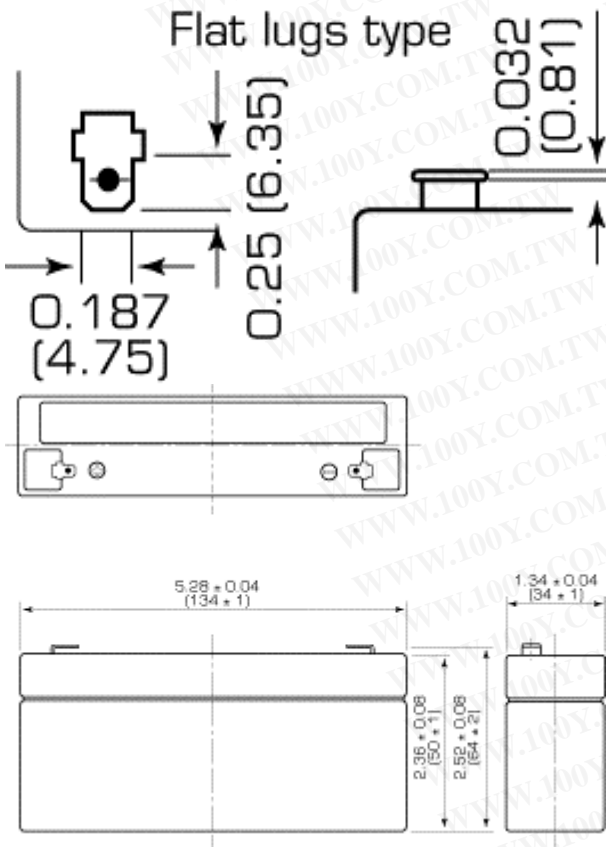
## PE6V3A

## Rechargeable Sealed Lead Acid Battery

### Specifications



### Dimensions



|           |  |   |
|-----------|--|---|
| <b>1</b>  | <b>Nominal Voltage</b>   | 6V  |
| <b>2</b>  | <b>Nominal Capacity</b>  | 0.05C (0.15A to 5.25V) 3.00 AHr<br>0.1C (0.30A to 5.25V) 2.70 AHr<br>0.2C (0.60A to 5.10V) 2.34 AHr<br>1C (3.00A to 4.50V) 1.56 AHr |
| <b>3</b>  | <b>Weight (Approx.)</b>  | 1.52 lbs. (0.68 kg)   |
| <b>4</b>  | <b>Internal Resistance of fully charged battery</b>                | 30 milliohms  |
| <b>5</b>  | <b>Energy Density (0.05C)</b>                                      | 1.05 Watt-hours/cubic inch<br>(64.7 Watt-hours/ℓ)   |
| <b>6</b>  | <b>Specific Energy (0.05C)</b>                                     | 11.6 Watt-hours/pound<br>(25.7 Watt-hours/ℓ)  |
| <b>7</b>  | <b>Maximum Discharge Current with standard terminals</b>           | 18 amperes  |
| <b>8</b>  | <b>Maximum Short Duration Discharge Current (less than 5 sec.)</b> | 45 amperes  |
| <b>9</b>  | <b>Vibration Test</b>  | (2000 cycles/minute, 0.10 inch excursion, 2 hours)<br>No loss in capacity or performance  |
| <b>10</b> | <b>Charge Retention (shelf life)</b>                               | % of nominal capacity at 77°F (25°C)<br><br>1 month 97%<br>3 months 91%<br>6 months 85%   |
| <b>11</b> | <b>Operating Temperature Range</b>                                 | Charge 32°F (0°C) to 104°F (40°C)<br>Discharge —4°F (—20°C) to 122°F (50°C)<br>Storage —4°F (—20°C) to 104°F (40°C)                 |
| <b>12</b> | <b>Case Material</b>   | Synthetic resin (ABS)   |
| <b>12</b> | <b>Standard Terminal</b>   | F1: AMP Faston type 187   |

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[Http://www.100y.com.tw](http://www.100y.com.tw)

### CHARGING METHODS

#### CYCLIC USE:

Maximum Initial Charge Current: 750mA

Charging Voltage: 7.2V-7.35V

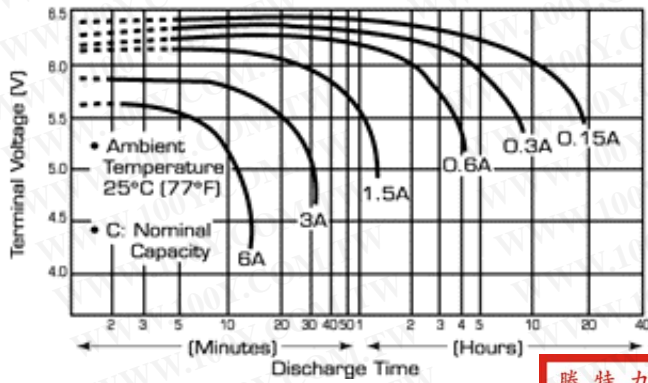
Charge should be switched to float mode or disconnected when current drops to 30mA

#### STANDBY USE:

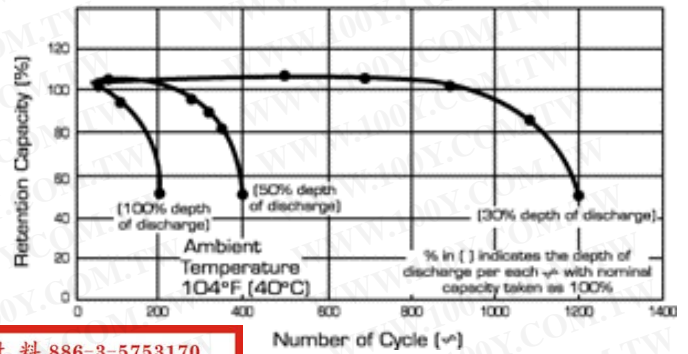
Maximum Initial Charge Current: 750mA

Charge Voltage: 6.75V-6.9V

### Discharge Time vs. Terminal Voltage

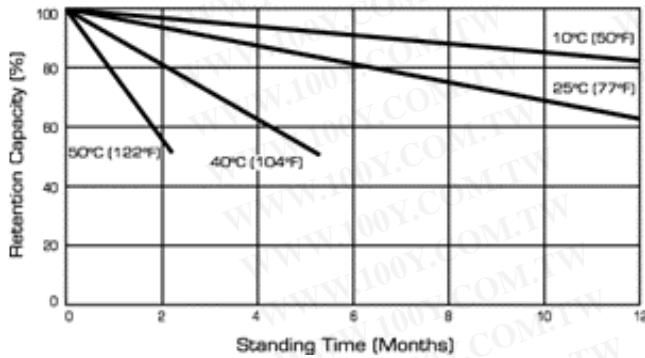


### Life Characteristics of Cyclic Use

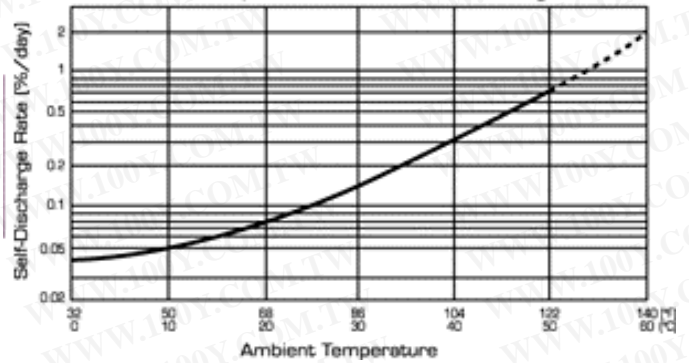


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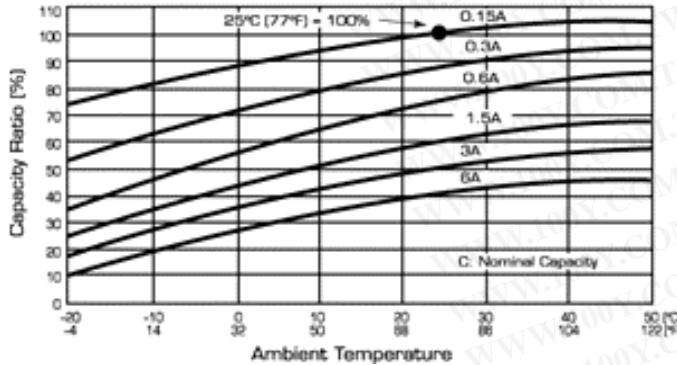
### Shelf Life Characteristics



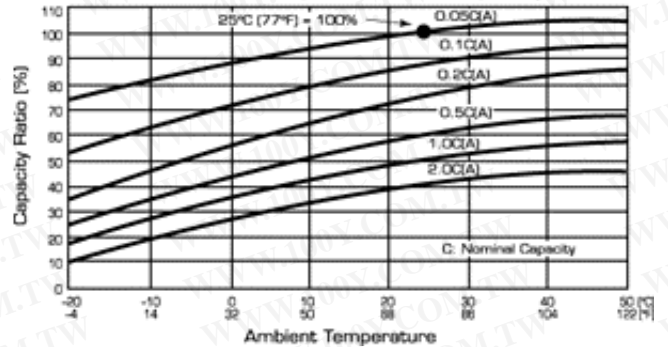
### Effect of Temperature on Self-Discharge Rate



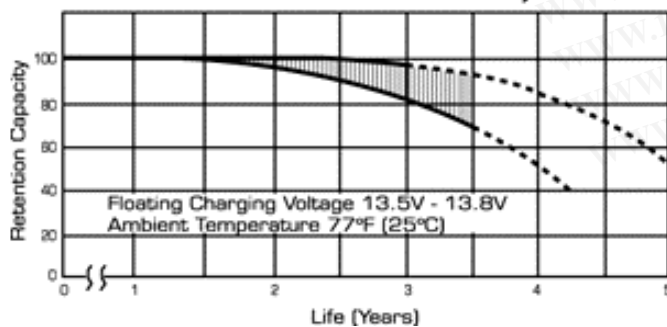
### Effect on Temperature on Capacity



### Effect on Temperature on Capacity



### Life Characteristics of Standby Use



### Discharge Time vs. Discharge Current

