



# UN4-6 (6V4.0Ah/20hr)

The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and thus immobilized.

Should the battery be accidentally overcharged producing hydrogen and oxygen, Special one-way valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore, maintenance-free, leak proof and usable in any position.

## Battery Construction

|              |                |                |           |       |              |          |            |               |
|--------------|----------------|----------------|-----------|-------|--------------|----------|------------|---------------|
| Component    | Positive plate | Negative plate | Container | Cover | Safety valve | Terminal | Separator  | Electrolyte   |
| Raw material | Lead dioxide   | Lead           | ABS       | ABS   | Rubber       | Copper   | Fiberglass | Sulfuric acid |

## General Feature

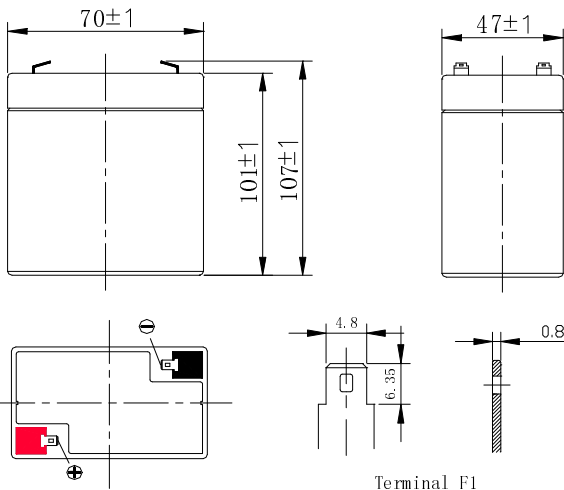
- Absorbent Glass Mat(AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.

## Performance Characteristics

|   |  |       |
|---|--|-------|
| Capacity<br>77°F(25°C)                          | 20 hour rate (0.2A、 5.25V)                       | 4.0Ah |
|   | 10 hour rate (0.38A、 5.25V)                      | 3.8Ah |
|   | 5 hour rate (0.7A、 5.25V)                        | 3.5Ah |
|   | 1 hour rate (2.5A、 4.8V)                         | 2.5Ah |
| Internal Resistance                             | Full charged Battery77°F(25°C):35mΩ              |       |
| Capacity affected by Temperature (20 hour rate) | 104° F(40°C)                                     | 102%  |
|   | 77° F(25°C)                                      | 100%  |
|   | 32° F(10°C)                                      | 85%   |
|   | 5° F(-15°C)                                      | 65%   |
| Self-Discharge<br>68°F(20°C)                    | Capacity after 3 month storage                   | 90%   |
|   | Capacity after 6 month storage                   | 80%   |
|   | Capacity after 12month storage                   | 60%   |
| Max. discharge current77°F(25°C): 60 A(5S)      |  |       |
| Charge (Constant Voltage)                       | Float: 6.80~6.90 V/77° F(25°C)                   |       |
|   | Cycle:7.25~7.45 V/77°F(25°C)<br>Max. Current: 1A |       |

## SPECIFICATION

- Nominal voltage ..... 6V
- Number of cell ..... 3
- Length(mm/inch) ..... 70/2.76
- Width(mm/inch) ..... 47/1.85
- Height(mm/inch) ..... 101/3.98
- Total Height(mm/inch) ..... 101/3.98
- Approx. Weight (kg/lbs) ..... 0.65/1.43



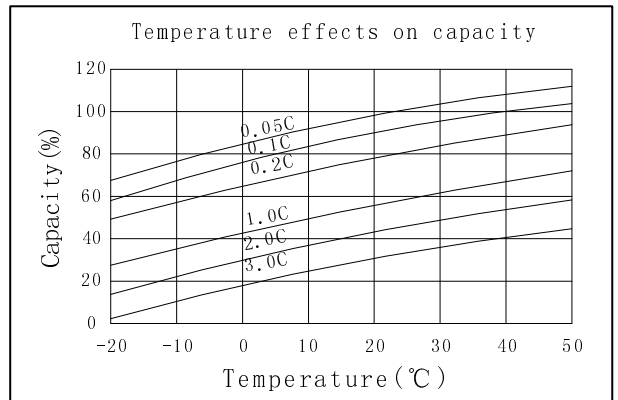
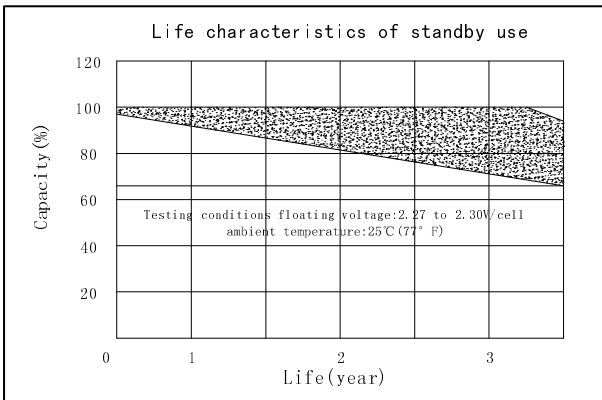
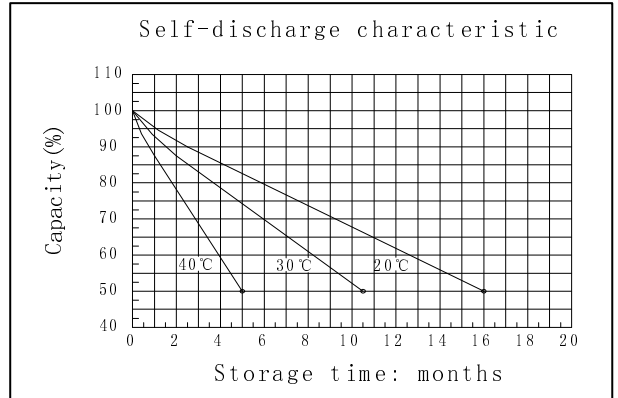
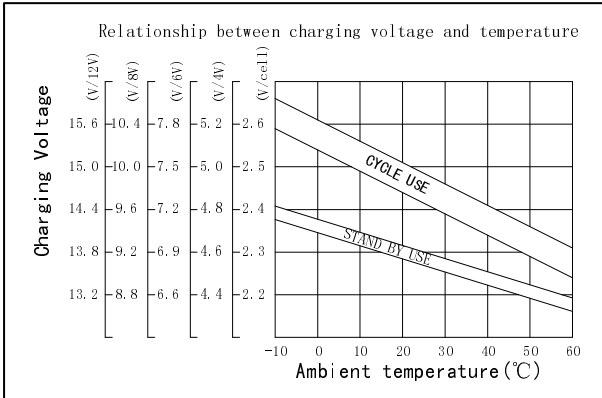
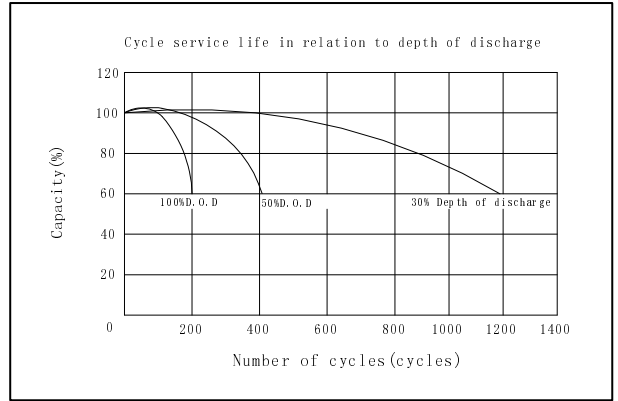
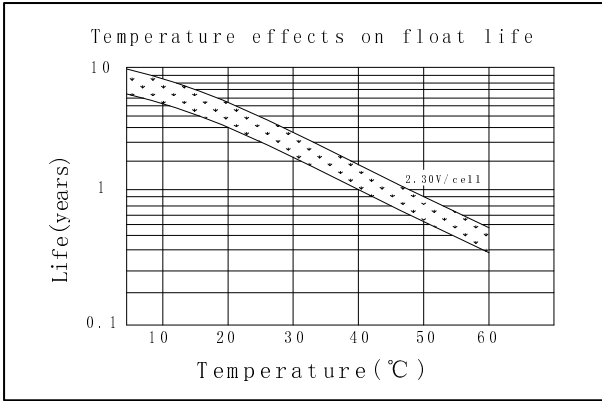
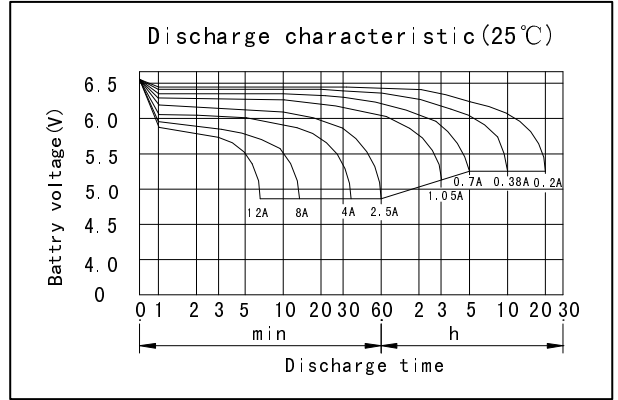
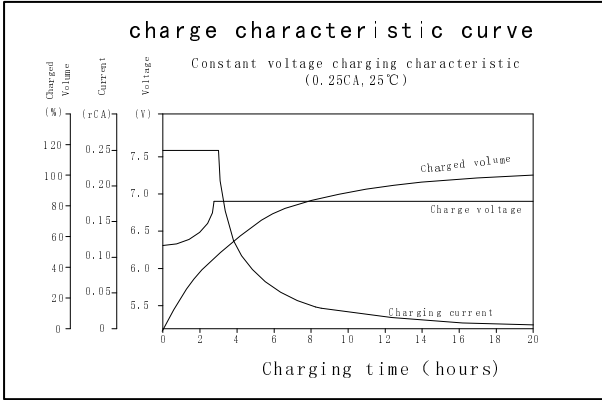
Discharge Constant Current (Amperes at 77° F25 °C)

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 1h   | 3h   | 5h   | 10h  | 20h  |
|----------------------|------|-------|-------|-------|------|------|------|------|------|
| 1.60V                | 14.0 | 8.65  | 7.05  | 4.10  | 2.50 | 1.15 | 0.72 | 0.39 | 0.21 |
| 1.65V                | 13.2 | 8.15  | 6.70  | 3.93  | 2.41 | 1.10 | 0.72 | 0.39 | 0.21 |
| 1.70V                | 12.4 | 7.72  | 6.39  | 3.75  | 2.32 | 1.05 | 0.71 | 0.38 | 0.20 |
| 1.75V                | 11.6 | 7.31  | 6.10  | 4.56  | 2.25 | 1.00 | 0.70 | 0.38 | 0.20 |
| 1.80V                | 10.9 | 6.95  | 2.79  | 3.39  | 2.14 | 0.95 | 0.68 | 0.37 | 0.19 |

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

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 45min | 1h   | 2h   | 3h   | 5h   |
|----------------------|------|-------|-------|-------|-------|------|------|------|------|
| 1.60V                | 26.8 | 16.7  | 13.3  | 8.33  | 6.00  | 4.83 | 2.99 | 1.86 | 1.22 |
| 1.65V                | 25.1 | 15.7  | 12.6  | 7.92  | 5.72  | 4.63 | 2.90 | 1.82 | 1.20 |
| 1.70V                | 23.5 | 14.7  | 11.9  | 7.49  | 5.44  | 4.42 | 2.80 | 1.77 | 1.18 |
| 1.75V                | 21.8 | 13.8  | 11.2  | 7.05  | 5.14  | 4.20 | 2.69 | 1.71 | 1.16 |
| 1.80V                | 20.2 | 12.8  | 10.4  | 6.62  | 4.85  | 3.97 | 2.58 | 1.66 | 1.13 |

(Note)The above characteristics data are average values obtained Within three charge/discharge cycles not the minimum values.



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