



## UNL1500-2 (2V1500Ah/10hr)

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

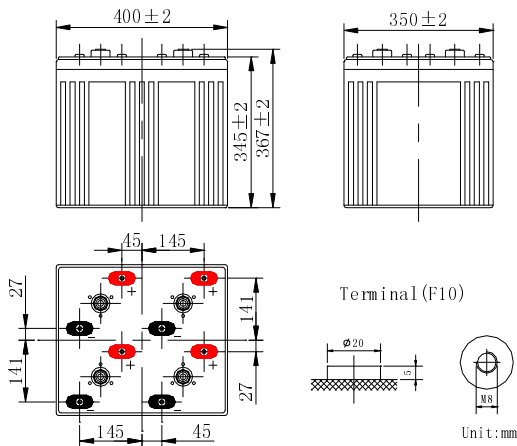
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|--------------|----------------|----------------|-----------|-------|--------------|----------|------------|---------------|
| Component    | Positive plate | Negative plate | Container | Cover | Safety valve | Terminal | Separator  | Electrolyte   |
| 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.

### SPECIFICATION

Nominal voltage ..... 2V  
 Number of cell ..... 1  
 Length(mm/inch) ..... 400/15.75  
 Width(mm/inch) ..... 350/13.8  
 Height(mm/inch) ..... 345/13.6  
 Total Height(mm/inch) ..... 382/15.04  
 Approx. Weight (kg/lbs) ..... 92/202.8



Total height with removable cover:382

### Performance Characteristics

|   |  |        |
|---|--|--------|
| Capacity<br>77°F(25°C)                          | 10 hour rate (150A、1.8V)                           | 1500Ah |
|   | 5 hour rate (268A、1.75V)                           | 1340Ah |
|   | 3 hour rate (378A、1.70V)                           | 1134Ah |
|   | 1 hour rate (920A、1.60V)                           | 920Ah  |
| Internal Resistance                             | Full charged Battery77°F(25°C): 0.11mΩ             |        |
| Capacity affected by Temperature (10 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)                    | 3% of Capacity declined per month                  |        |
| Short Circuit Current: 11950A                   |  |        |
| Max. discharge current77°F(25°C): 3000A(5S)     |  |        |
| Charge (Constant Voltage)                       | Float: 2.25~2.30 V/77° F(25°C)                     |        |
|   | Cycle:2.35~2.45 V/77°F(25°C)<br>Max. Current: 300A |        |

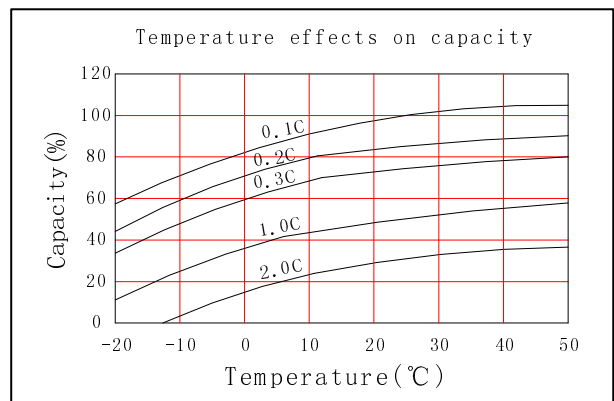
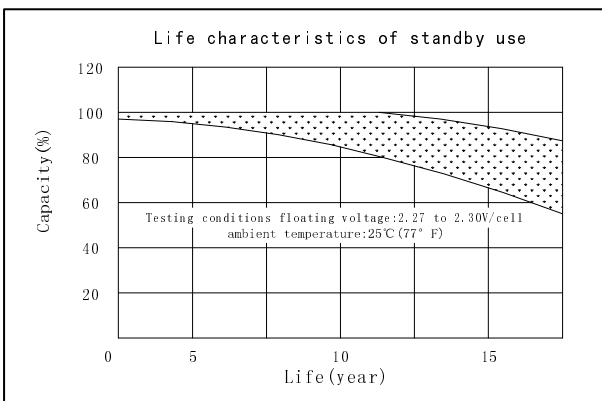
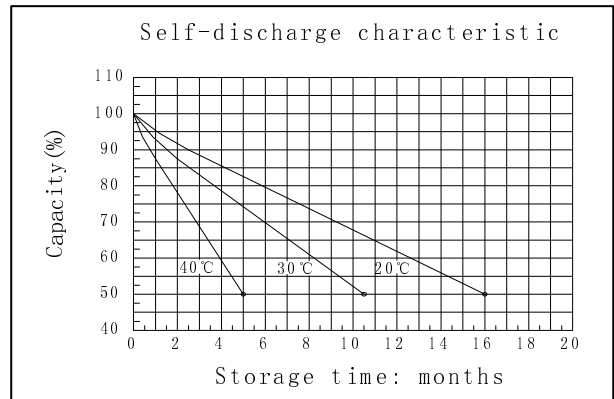
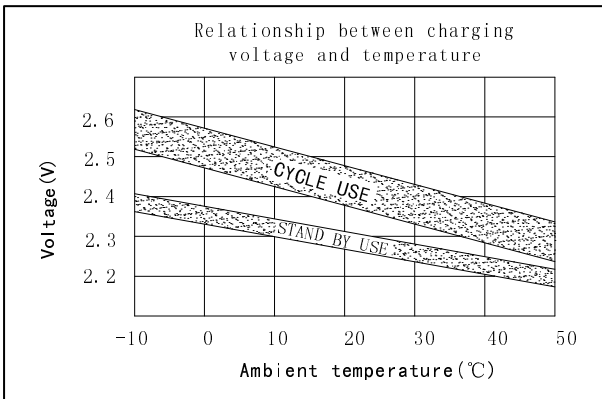
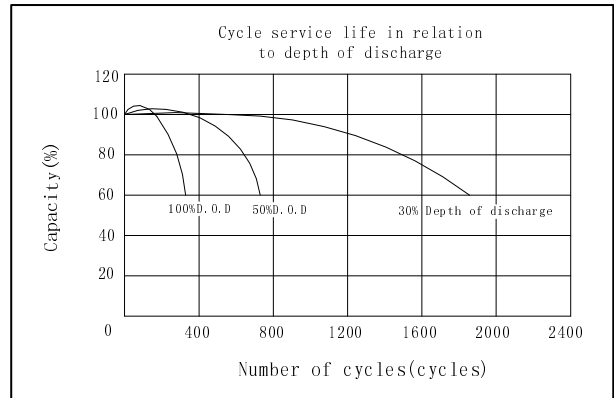
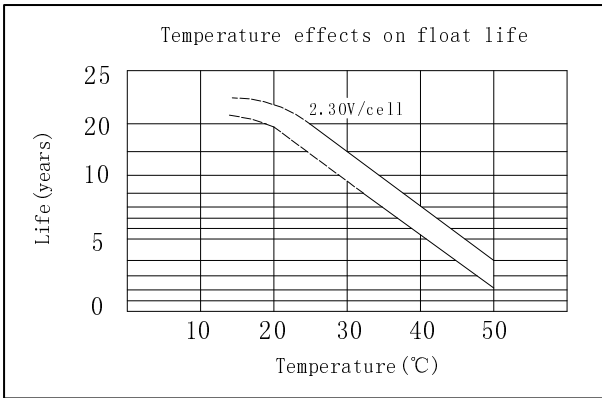
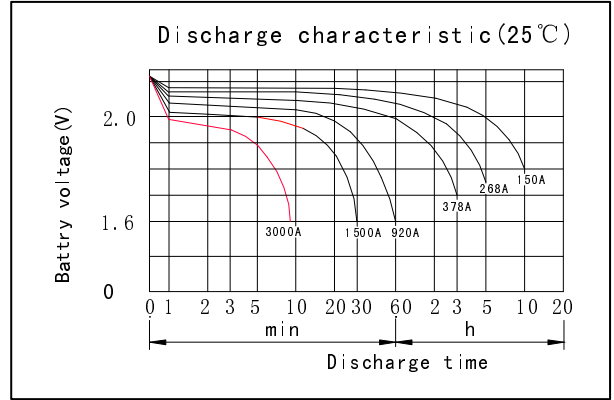
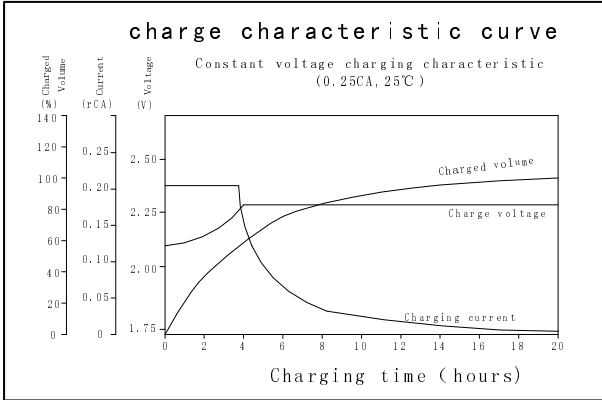
#### Discharge Constant Current (Amperes at 77° F 25 °C)

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 45min | 1h  | 3h  | 5h  | 10h |
|----------------------|------|-------|-------|-------|-------|-----|-----|-----|-----|
| 1. 60V               |      | 2715  | 2040  | 1490  | 1125  | 920 | 398 | 286 | 160 |
| 1. 65V               |      | 1573  | 1942  | 1425  | 1080  | 892 | 388 | 280 | 157 |
| 1. 70V               |      | 2425  | 1840  | 1357  | 1032  | 862 | 378 | 274 | 155 |
| 1. 75V               |      | 2275  | 1735  | 1285  | 983   | 830 | 367 | 268 | 152 |
| 1. 80V               |      | 2120  | 1630  | 1220  | 931   | 795 | 355 | 260 | 150 |

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

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 45min | 1h   | 2h  | 3h  | 5h  |
|----------------------|------|-------|-------|-------|-------|------|-----|-----|-----|
| 1. 60V               |      | 4267  | 3451  | 2495  | 1990  | 1638 | 975 | 745 | 526 |
| 1. 65V               |      | 4022  | 3266  | 2368  | 1899  | 1563 | 930 | 723 | 520 |
| 1. 70V               |      | 3772  | 3077  | 2242  | 1804  | 1491 | 887 | 701 | 515 |
| 1. 75V               |      | 3524  | 2887  | 2112  | 1705  | 1446 | 860 | 679 | 501 |
| 1. 80V               |      | 3276  | 2695  | 1979  | 1609  | 1335 | 794 | 657 | 492 |

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



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