



# UNF100-12A

(12V100Ah/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

|              |                |                |           |       |              |          |            |               |
|--------------|----------------|----------------|-----------|-------|--------------|----------|------------|---------------|
| 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

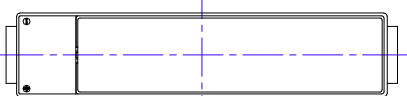
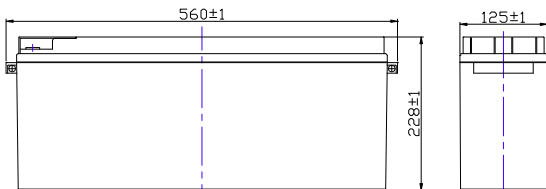
- Absorbent Glass Mat(AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed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

## Performance Characteristics

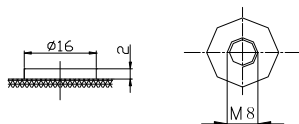
|   |   |       |
|---|---|-------|
| Capacity<br>77°F(25°C)                          | 20 hour rate (5.7A、10.8V)                         | 114Ah |
|   | 10 hour rate (10A、10.8V)                          | 100Ah |
|   | 5 hour rate (19.2A、10.5V)                         | 96Ah  |
|   | 1 hour rate (72A、9.6V)                            | 72Ah  |
| Internal Resistance                             | Full charged Battery77°F(25°C): 5.5mΩ             |       |
| 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): 1000A(5S)     |   |       |
| Charge (Constant Voltage)                       | Float: 13.6~13.8 V/77° F(25°C)                    |       |
|   | Cycle:14.4~14.7 V/77°F(25°C)<br>Max. Current: 25A |       |

## SPECIFICATION

- Nominal voltage ..... 12V
- Number of cell ..... 6
- Length(mm/inch) ..... 560/22.0
- Width(mm/inch) ..... 125/4.92
- Height(mm/inch) ..... 228/8.98
- Total Height(mm/inch) ..... 228/8.98
- Approx. Weight (kg/lbs±5%) ..... 34.5/76.1



Terminal (F12)



Unit:mm

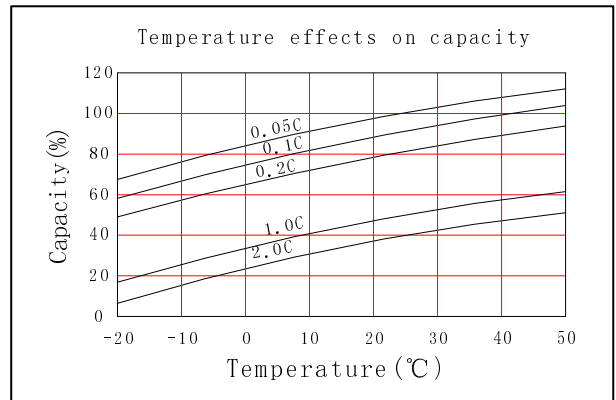
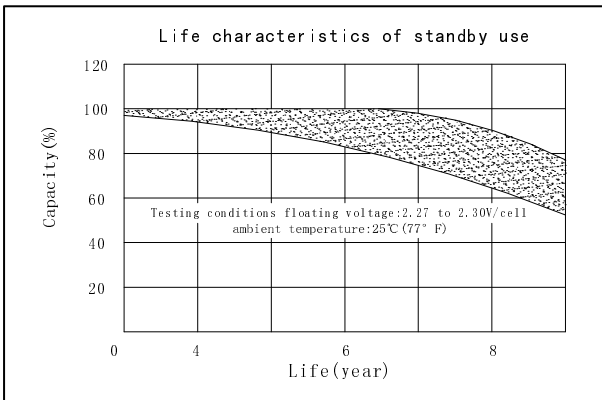
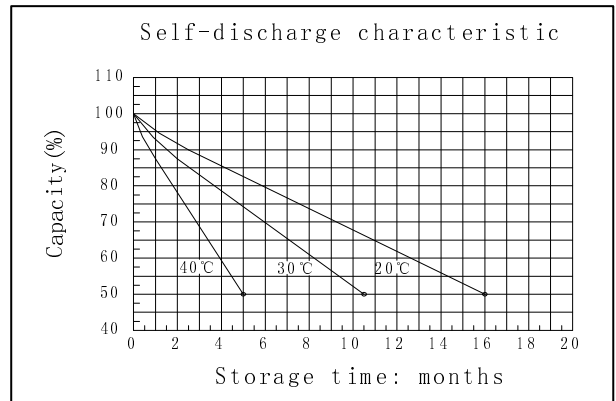
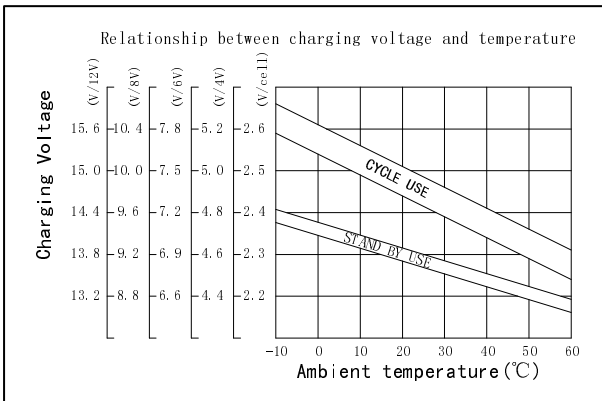
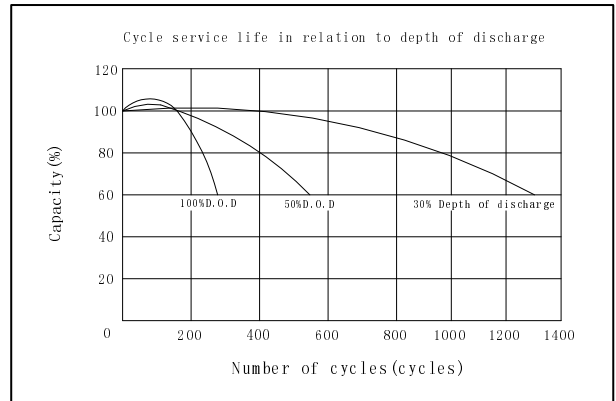
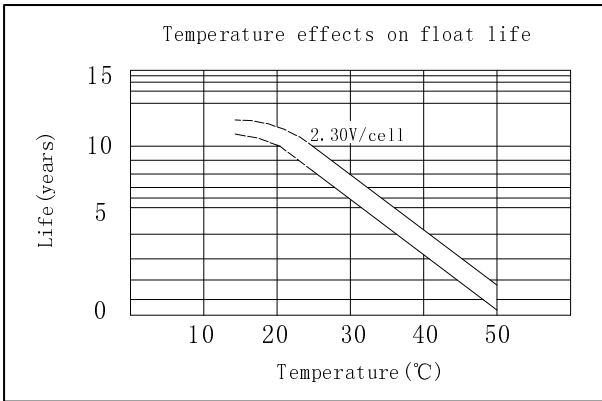
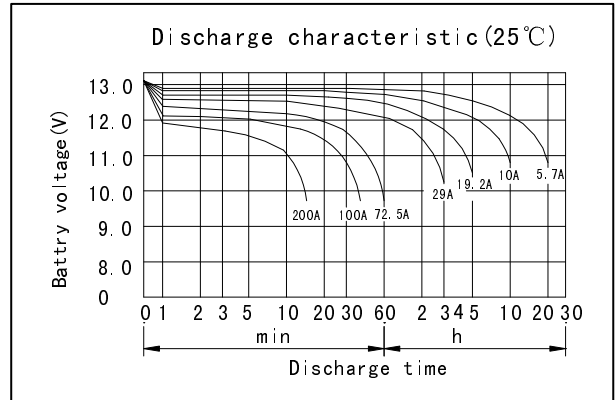
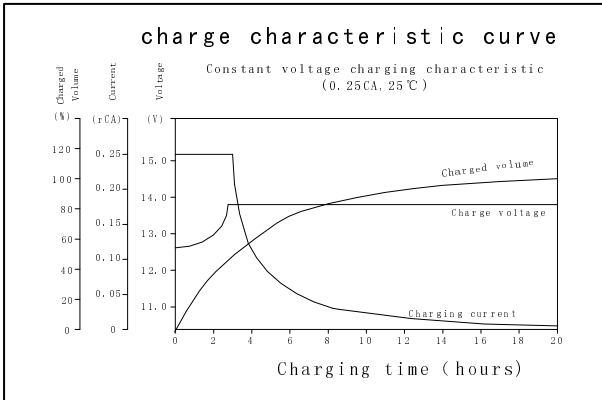
Discharge Constant Current (Amperes at 77° F25 °C)

| End Point Volts/Cell | 10min | 15min | 30min | 45min | 1h   | 3h   | 5h   | 10h  | 20h  |
|----------------------|-------|-------|-------|-------|------|------|------|------|------|
| 1.60V                | 295   | 211   | 129   | 93.5  | 72.5 | 30.0 | 20.5 | 10.5 | 5.95 |
| 1.65V                | 280   | 196   | 124   | 89.3  | 71.0 | 29.5 | 20.1 | 10.4 | 5.90 |
| 1.70V                | 265   | 186   | 119   | 86.5  | 69.6 | 29.0 | 19.8 | 10.3 | 5.85 |
| 1.75V                | 250   | 175   | 114   | 84.5  | 67.1 | 28.5 | 19.5 | 10.2 | 5.80 |
| 1.80V                | 235   | 168   | 108   | 82.5  | 65.5 | 27.8 | 18.9 | 10.0 | 5.70 |

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

| End Point Volts/Cell | 10min | 15min | 30min | 45min | 1h  | 2h   | 3h   | 5h   | 10h  |
|----------------------|-------|-------|-------|-------|-----|------|------|------|------|
| 1.60V                | 520   | 365   | 230   | 173   | 139 | 77.0 | 56.5 | 39.3 | 20.8 |
| 1.65V                | 495   | 346   | 223   | 165   | 134 | 74.6 | 55.7 | 38.6 | 20.6 |
| 1.70V                | 470   | 328   | 213   | 161   | 132 | 73.5 | 54.9 | 37.8 | 20.4 |
| 1.75V                | 443   | 310   | 205   | 157   | 129 | 72.3 | 54.1 | 37.0 | 20.2 |
| 1.80V                | 413   | 285   | 195   | 153   | 126 | 71.2 | 53.1 | 36.0 | 19.9 |

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



**DONGGUAN OREMA POWER CO., LTD**

Add: #1 Qilinling Road Shahu, Tangxia Town, Dongguan Guangdong China

TEL: +86-769- 3896 1163 +86-769- 3896 1168

FAX: +86-769- 3896 1169



[www.oremabattery.com](http://www.oremabattery.com)