



UNL450-2 (2V450Ah/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

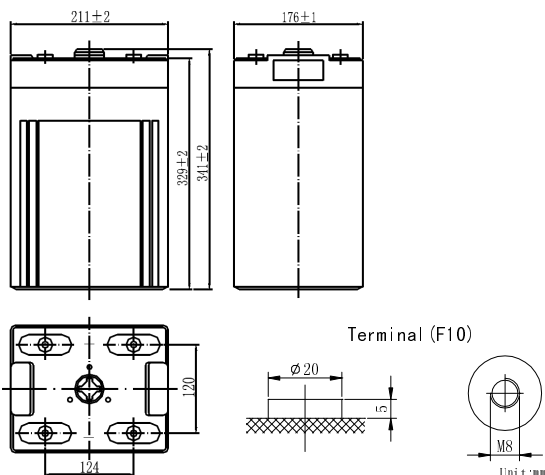
- Absorbent Glass Mat(AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed 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 77°F(25°C) | 10 hour rate (45A、1.80V) | 450Ah |
| | 5 hour rate (81A、1.75V) | 405Ah |
| | 3 hour rate (115A、1.70V) | 345Ah |
| | 1 hour rate (270A、1.60V) | 270Ah |
| Internal Resistance | Full charged Battery77°F(25°C): 0.7mΩ | |
| 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 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): 2000A(5S) | | |
| Charge (Constant Voltage) | Float: 2.25~2.30 V/77° F(25°C) | |
| | Cycle:2.35~2.45 V/77°F(25°C) Max. Current: 90A | |

SPECIFICATION

- Nominal voltage 2V
 Number of cell 1
 Length(mm/inch) 210/8.27
 Width(mm/inch) 176/6.93
 Height(mm/inch) 330/13.0
 Total Height(mm/inch) 367/14.45
 Approx. Weight(kg/lbs) 28/61.7



Total height with removable cover:367

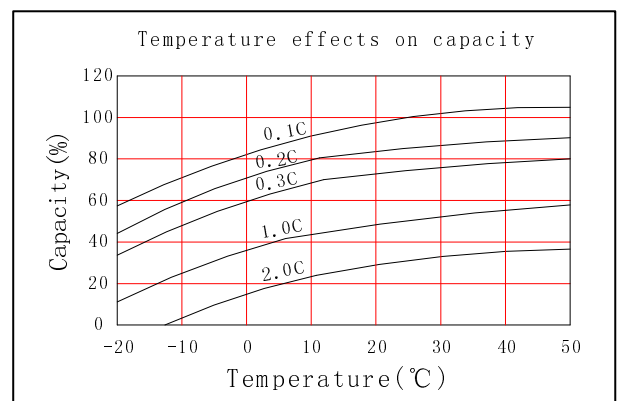
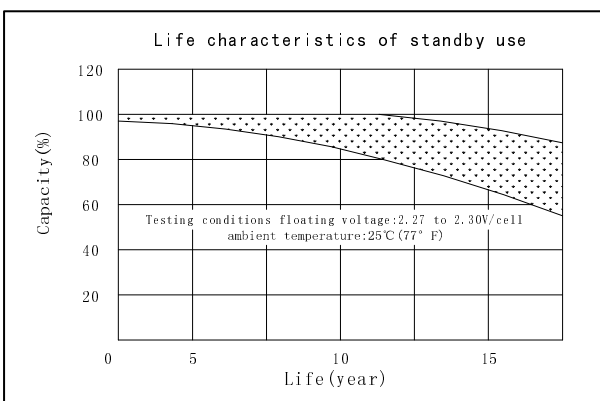
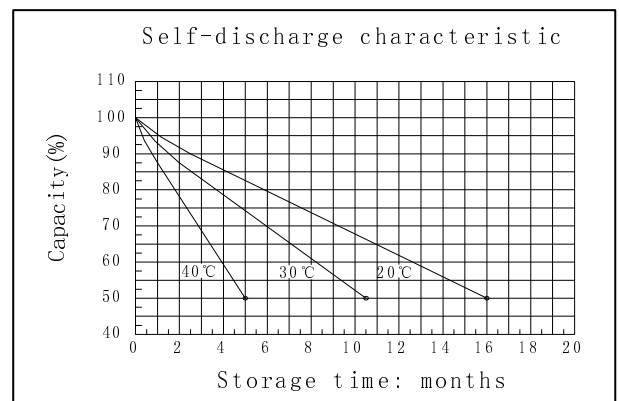
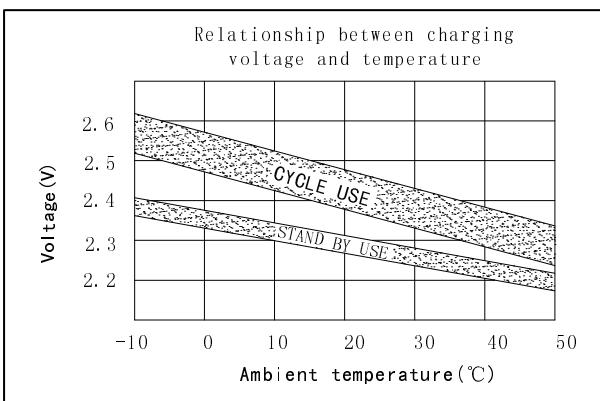
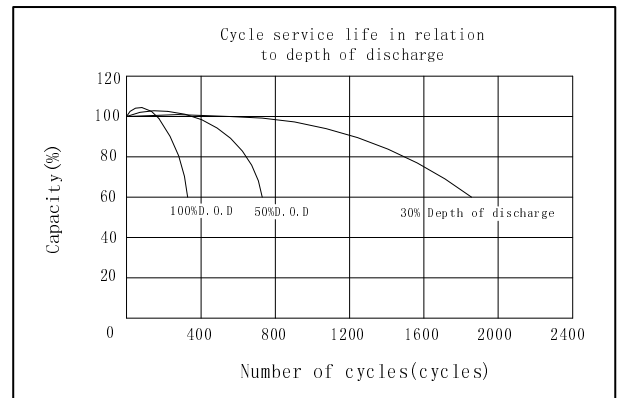
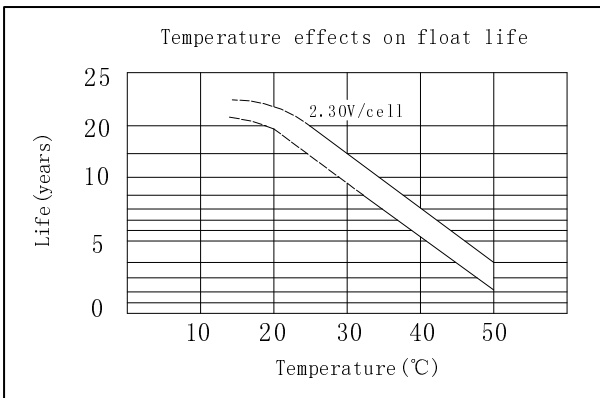
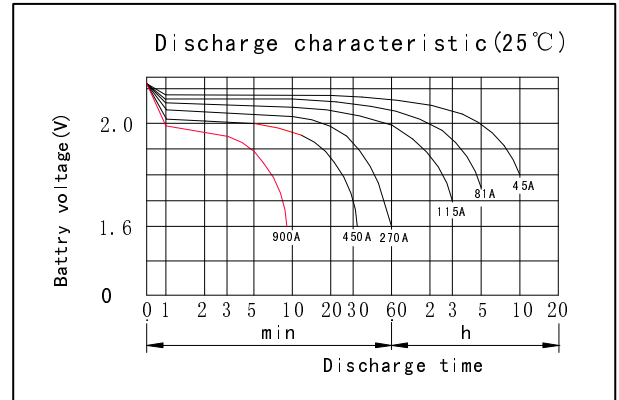
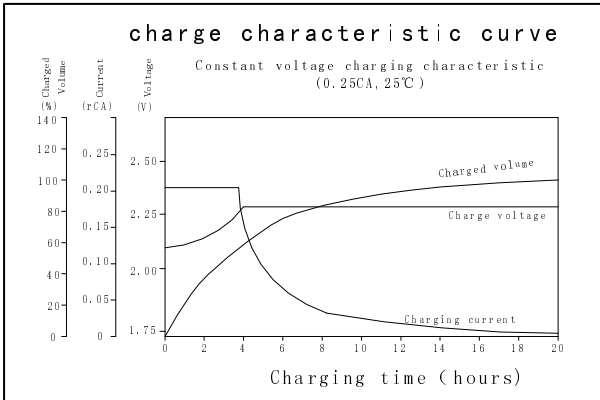
Discharge Constant Current (Amperes at 77° F 25 °C)

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 45min | 1h | 3h | 5h | 10h |
|----------------------|------|-------|-------|-------|-------|-----|-----|------|------|
| 1.60V | | 866 | 663 | 462 | 359 | 270 | 123 | 85.2 | 47.0 |
| 1.65V | | 821 | 630 | 441 | 345 | 258 | 119 | 84.0 | 46.5 |
| 1.70V | | 774 | 597 | 420 | 330 | 246 | 115 | 82.5 | 46.0 |
| 1.75V | | 726 | 564 | 398 | 312 | 234 | 111 | 81.0 | 45.5 |
| 1.80V | | 678 | 530 | 375 | 296 | 220 | 106 | 79.5 | 45.0 |

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

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h |
|----------------------|------|-------|-------|-------|-------|-----|-----|-----|-----|
| 1.60V | | 1433 | 1068 | 842 | 678 | 532 | 359 | 256 | 158 |
| 1.65V | | 1350 | 1010 | 800 | 648 | 510 | 342 | 247 | 155 |
| 1.70V | | 1266 | 951 | 756 | 615 | 486 | 327 | 234 | 153 |
| 1.75V | | 1182 | 893 | 713 | 582 | 462 | 317 | 224 | 149 |
| 1.80V | | 1100 | 834 | 669 | 548 | 437 | 289 | 206 | 141 |

(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