



UNLG3000-2 (2V3000Ah/10hr)



UNLG Series is GEL battery which is manufactured with AGM separator and colloidal Silicon. Gel battery are featured with low self-discharge, strong ability to recover from deep discharging, excellent cycle life and performance at cold ambient temperatures than conventional VRLA

Battery Construction

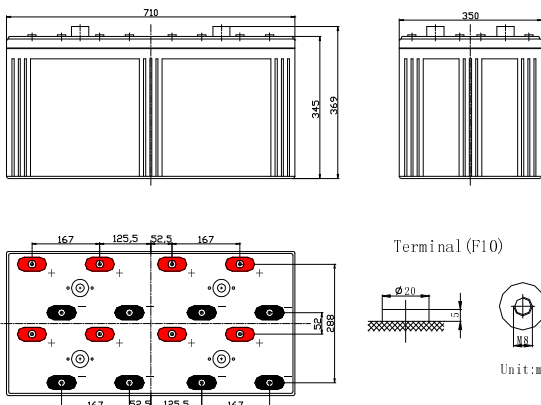
| Component | Positive plate | Negative plate | Container | Cover | Safety valve | Terminal | Separator | Electrolyte |
|--------------|----------------|----------------|-----------|-------|--------------|----------|------------|-------------------|
| Raw material | Lead dioxide | Lead | ABS | ABS |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

General Feature

- Micro millimeter SiO₂ and H₂SO₄ 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) 710/7.68
 Width(mm/inch) 350/13.8
 Height(mm/inch) 345/13.6
 Total Height(mm/inch) 382/15.04
 Approx. Weight (kg/lbs) 195/429.8



Total height with removable cover: 382

Performance Characteristics

| | | |
|--|---|--------|
| Capacity 77°F(25°C) | 100 hour rate (36A、1.85V) | 3600Ah |
| | 20 hour rate (160A、1.8V) | 3200Ah |
| | 10 hour rate (300A、1.8V) | 3000Ah |
| | 1 hour rate (1776A、1.6V) | 1776Ah |
| Internal Resistance | Full charged Battery 77°F(25°C):0.3mΩ | |
| Operating Temperature Range | Discharge: -20~60°C | |
| | Charge: -10~60°C | |
| | Storage: -20~60°C | |
| Self-Discharge 3% of capacity declined per month at 20°C(average) | | |
| Max. discharge current 77°F(25°C): 4000A(5S) | | |
| Charge (Constant Voltage) | Float: 2.23~2.28 V/77° F/(25°C) | |
| | Cycle:2.38~2.42 V/77°F/(25°C) Max. Current: 600A | |

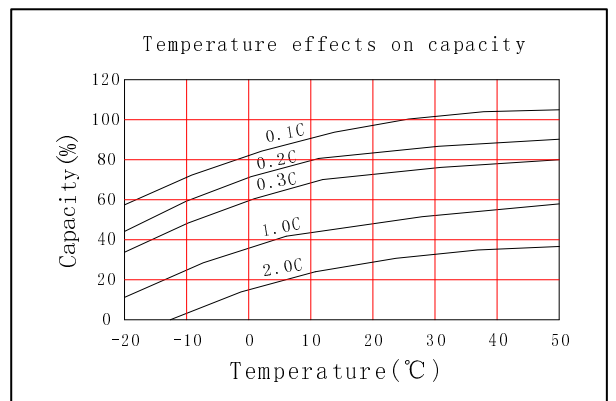
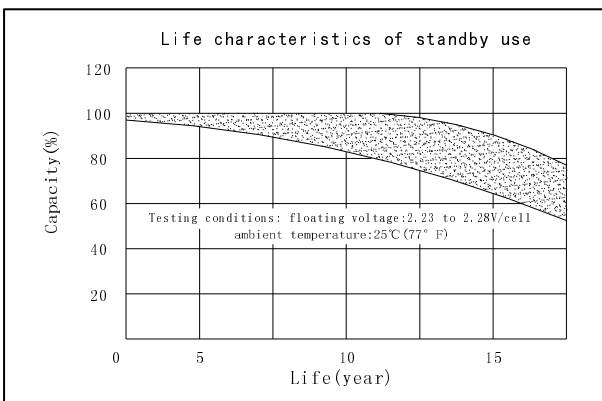
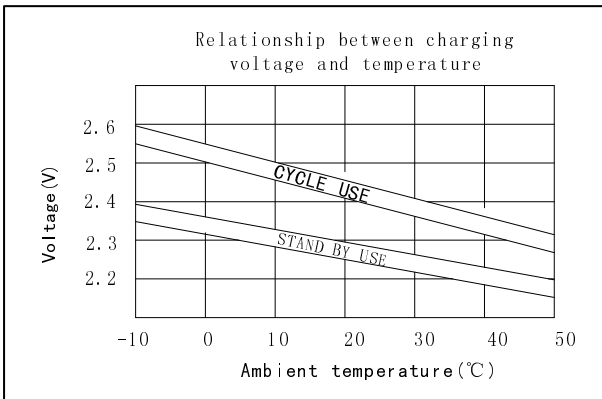
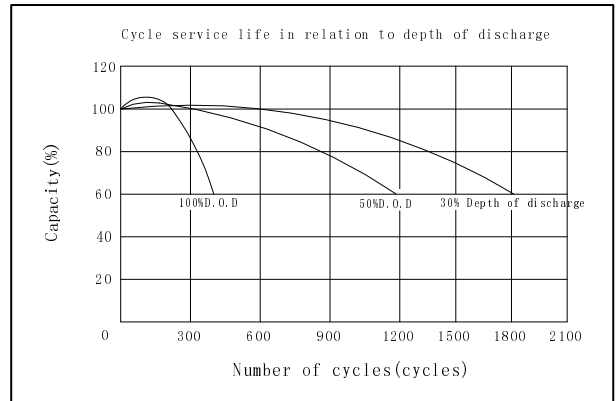
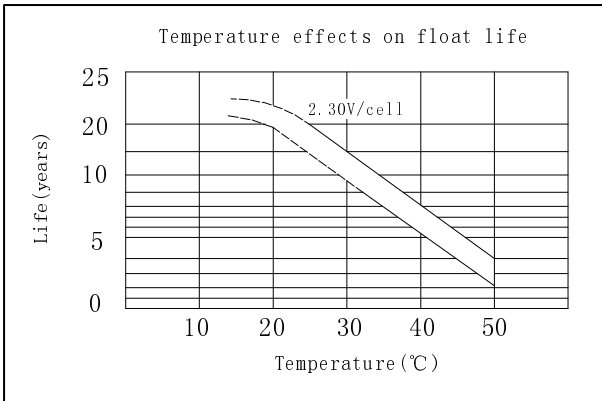
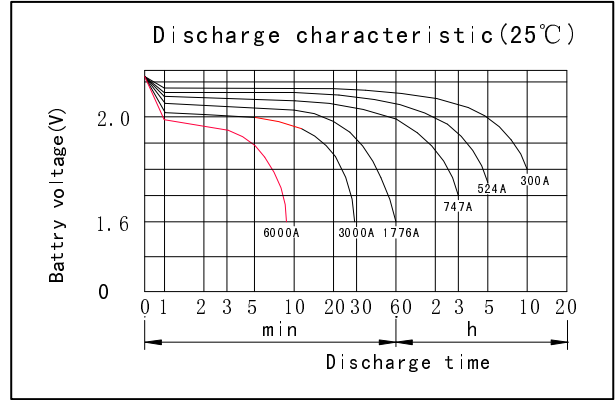
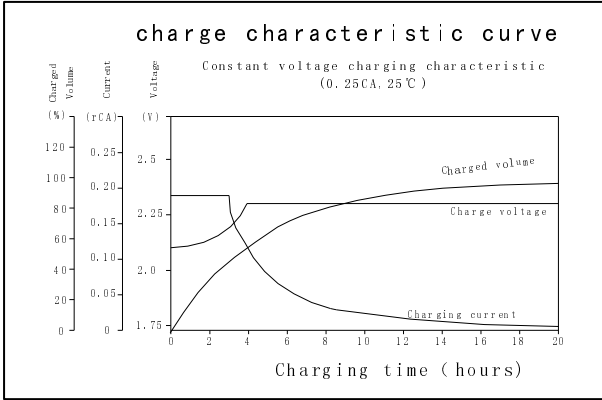
Discharge Constant Current (Amperes at 77° F 25 °C)

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 45min | 1h | 3h | 5h | 10h |
|----------------------|------|-------|-------|-------|-------|------|-----|-----|-----|
| 1.60V | | 4832 | 3779 | 2831 | 2052 | 1776 | 800 | 568 | 319 |
| 1.65V | | 4578 | 3596 | 2708 | 1968 | 1721 | 776 | 551 | 315 |
| 1.70V | | 4319 | 3408 | 2575 | 1881 | 1666 | 747 | 539 | 310 |
| 1.75V | | 4047 | 3215 | 2441 | 1789 | 1608 | 723 | 524 | 305 |
| 1.80V | | 3779 | 3022 | 2304 | 1696 | 1565 | 689 | 515 | 300 |

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

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h |
|----------------------|------|-------|-------|-------|-------|------|------|------|-----|
| 1.60V | | 7283 | 5687 | 4260 | 3303 | 2857 | 1979 | 1380 | 904 |
| 1.65V | | 6903 | 5413 | 4072 | 3171 | 2779 | 1956 | 1344 | 888 |
| 1.70V | | 6510 | 5131 | 3884 | 3039 | 2701 | 1883 | 1306 | 870 |
| 1.75V | | 6107 | 4845 | 3696 | 2907 | 2624 | 1803 | 1263 | 852 |
| 1.80V | | 5698 | 4554 | 3507 | 2775 | 2546 | 1717 | 1230 | 809 |

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



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