



UN12-12 (12V12Ah/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

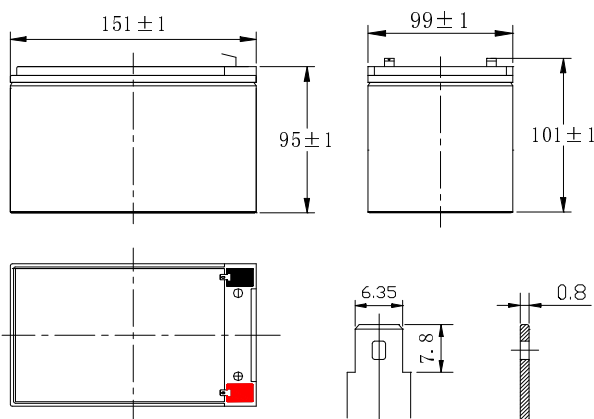
- Absorbent Glass Mat(AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed 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 77°F(25°C) | 20 hour rate (0.6A、10.5V) | 12Ah |
| | 10 hour rate (1.14A、10.5V) | 11.4Ah |
| | 5 hour rate (2.05A、10.5V) | 10.2Ah |
| | 1 hour rate (7.5 A、9.6V) | 7.5Ah |
| Internal Resistance | Full charged Battery77°F(25°C):20mΩ | |
| 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 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): 180A(5S) | | |
| Charge (Constant Voltage) | Float: 13.6~13.8 V/77° F(25°C) | |
| | Cycle:14.5~14.9 V/77°F(25°C) Max. Current: 3.0A | |

SPECIFICATION

Nominal voltage 12V
 Number of cell 6
 Length(mm/inch) 151/5.94
 Width(mm/inch) 99/3.90
 Height(mm/inch) 95/3.74
 Total Height(mm/inch) 101/3.98
 Approx. Weight(kg/lbs) 3.4/7.48



Terminal F2 Unit:mm

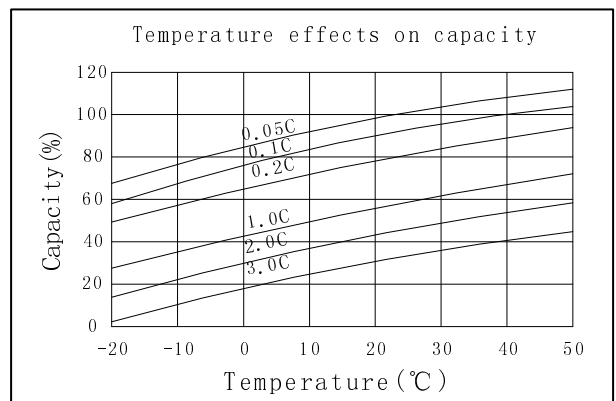
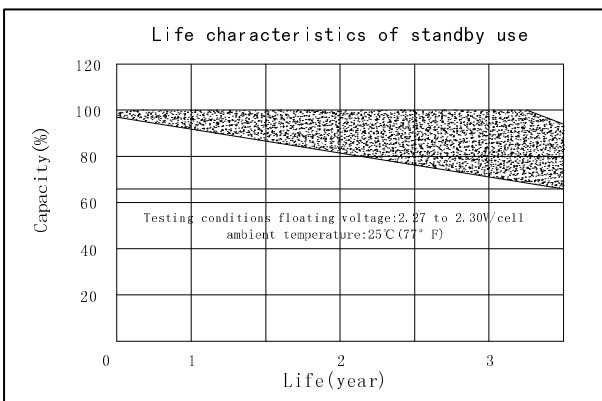
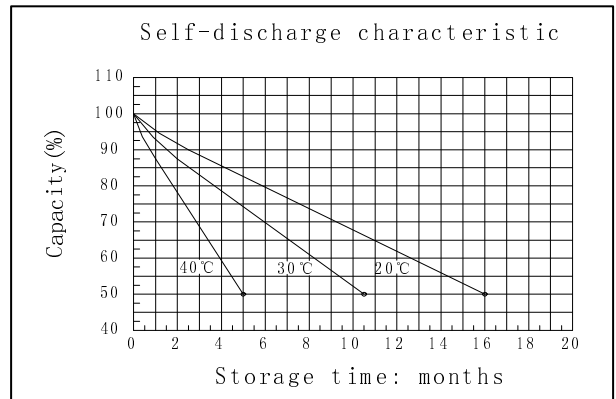
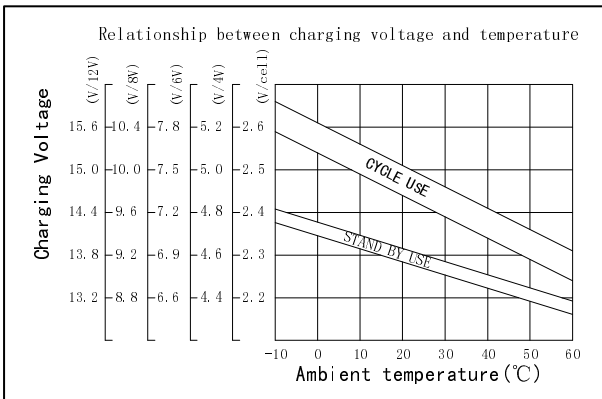
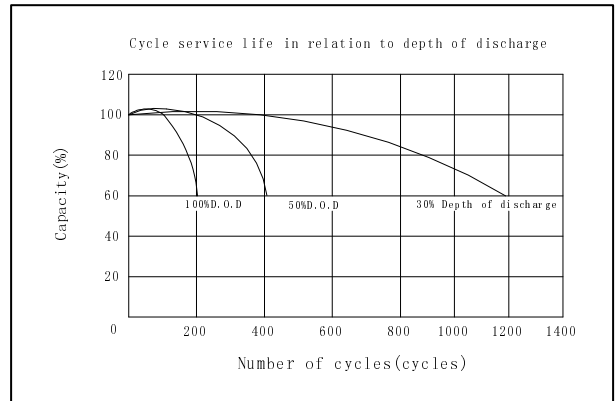
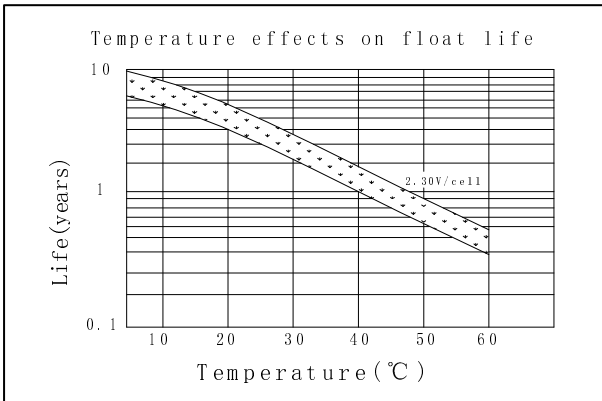
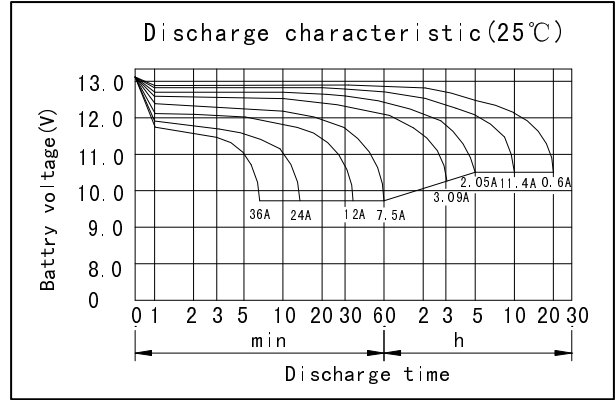
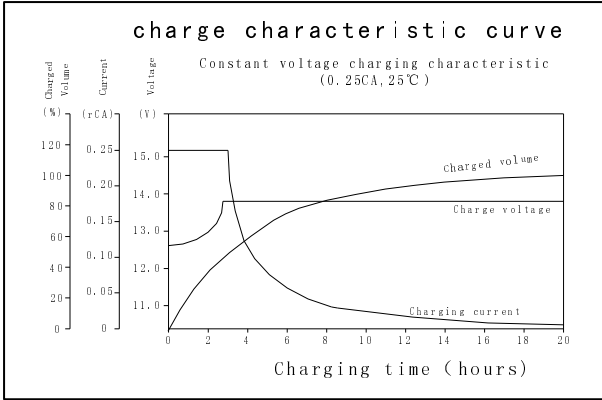
Discharge Constant Current (Amperes at 77° F25 °C)

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 1h | 3h | 5h | 10h | 20h |
|----------------------|------|-------|-------|-------|------|------|------|------|------|
| 1.60V | 45.6 | 31.0 | 24.3 | 13.3 | 7.50 | 3.15 | 2.12 | 1.18 | 0.61 |
| 1.65V | 44.2 | 30.1 | 23.8 | 12.9 | 7.43 | 3.12 | 2.10 | 1.17 | 0.61 |
| 1.70V | 42.7 | 29.2 | 23.2 | 12.6 | 7.37 | 3.09 | 2.07 | 1.16 | 0.61 |
| 1.75V | 41.3 | 28.3 | 22.7 | 12.3 | 7.30 | 3.06 | 2.05 | 1.14 | 0.60 |
| 1.80V | 39.8 | 27.5 | 22.1 | 12.0 | 7.23 | 3.03 | 2.02 | 1.12 | 0.59 |

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

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h |
|----------------------|------|-------|-------|-------|-------|------|------|------|------|
| 1.60V | 88.0 | 59.2 | 47.7 | 28.2 | 21.0 | 15.6 | 9.78 | 6.52 | 4.24 |
| 1.65V | 82.5 | 55.7 | 45.1 | 26.8 | 20.0 | 14.9 | 9.49 | 6.36 | 4.17 |
| 1.70V | 77.1 | 52.3 | 42.5 | 25.3 | 19.0 | 14.2 | 9.17 | 6.19 | 4.09 |
| 1.75V | 71.7 | 48.8 | 39.8 | 23.9 | 18.0 | 13.5 | 8.81 | 6.00 | 4.00 |
| 1.80V | 66.4 | 45.4 | 37.2 | 22.4 | 17.0 | 12.8 | 8.43 | 5.80 | 3.90 |

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



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