

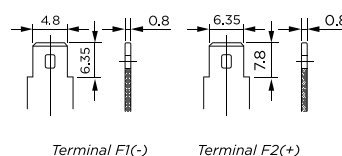
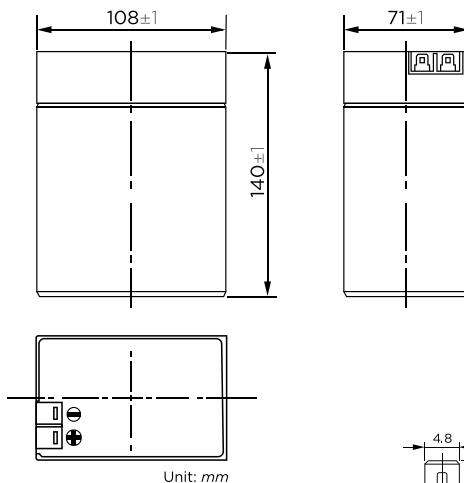
BG-6120

(6V 14Ah/20hr)

Rechargeable Sealed Lead Acid Battery



These 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.



Performance Characteristics

| | | |
|--|---|--------|
| Capacity 77°F(25°C) | 20 hour rate (0.7A, 5.25V) | 14.0Ah |
| | 10 hour rate (1.35A, 5.25V) | 13.5Ah |
| | 5 hour rate (2.6A, 5.25V) | 13.0Ah |
| | 1 hour rate (9.8A, 4.8V) | 9.8Ah |
| Internal Resistance | Full charged Battery 77°F(25°C): 15mΩ | |
| 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 12 month storage | 60% |
| Max. discharge current 77°F(25°C): 210A(5S) | | |
| Charge (Constant Voltage) | Float: 6.80-6.90 V/77°F(25°C) | |
| | Cycle: 7.25-7.45 V/77°F(25°C) Max. Current: 3.5A | |

SPECIFICATION

| | |
|-------------------------|----------|
| Nominal voltage | 6V |
| Number of cells | 3 |
| Length (mm/inch) | 108/4.25 |
| Width (mm/inch) | 71/2.79 |
| Height (mm/inch) | 140/5.51 |
| Total Height (mm/inch) | 140/5.51 |
| Approx. Weight (kg/lbs) | 2.3/5.07 |

General Features

- 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.

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

| End Points Volts/Cell | 5 min | 10 min | 15 min | 30 min | 1h | 3h | 5h | 10h | 20h |
|-----------------------|-------|--------|--------|--------|------|------|------|------|------|
| 1.60V | 63.2 | 40.5 | 29.5 | 17.0 | 9.80 | 4.06 | 2.82 | 1.49 | 0.73 |
| 1.65V | 59.9 | 38.5 | 28.3 | 16.3 | 9.45 | 3.93 | 2.75 | 1.45 | 0.72 |
| 1.70V | 56.5 | 36.5 | 27.0 | 15.6 | 9.07 | 3.80 | 2.68 | 1.40 | 0.71 |
| 1.75V | 53.0 | 34.5 | 25.7 | 14.9 | 8.67 | 3.65 | 2.60 | 1.35 | 0.70 |
| 1.80V | 49.5 | 32.0 | 24.2 | 14.1 | 8.25 | 3.50 | 2.50 | 1.30 | 0.68 |

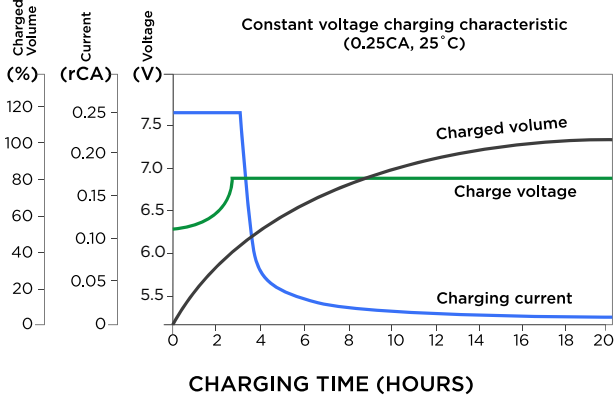
Discharge Constant Power (Watts at 77°F 25°C)

| End Points Volts/Cell | 5 min | 10 min | 15 min | 30 min | 45 min | 1h | 2h | 3h | 5h |
|-----------------------|-------|--------|--------|--------|--------|------|------|------|------|
| 1.60V | 110 | 72.0 | 58.5 | 34.1 | 24.5 | 20.5 | 11.1 | 7.70 | 5.35 |
| 1.65V | 103 | 67.8 | 55.5 | 32.4 | 23.5 | 19.7 | 10.8 | 7.50 | 5.25 |
| 1.70V | 96.0 | 63.0 | 52.5 | 30.7 | 22.5 | 18.8 | 10.4 | 7.30 | 5.15 |
| 1.75V | 89.0 | 58.2 | 49.5 | 28.9 | 21.3 | 17.8 | 10.0 | 7.10 | 5.05 |
| 1.80V | 81.5 | 53.5 | 46.0 | 27.0 | 19.8 | 16.9 | 9.50 | 6.85 | 4.95 |

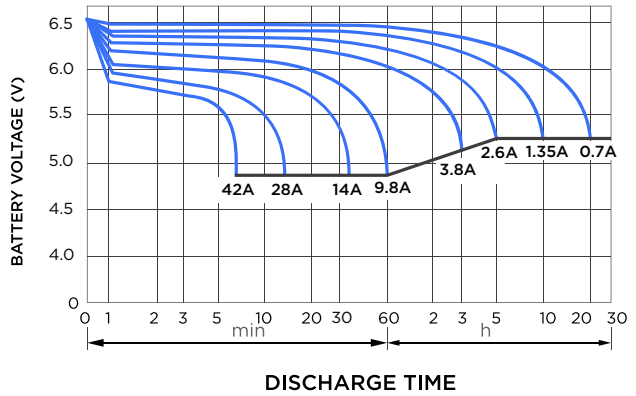
Battery Construction

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

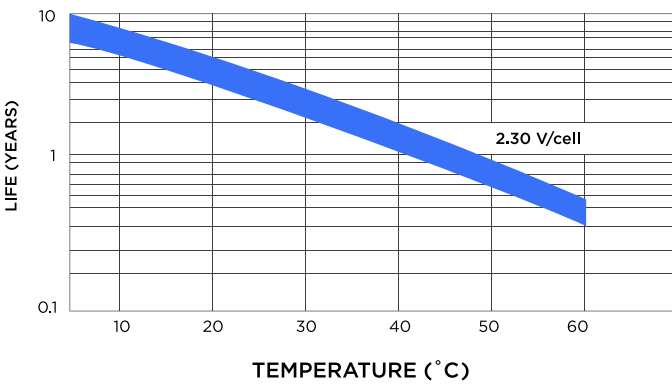
Charge characteristic curve



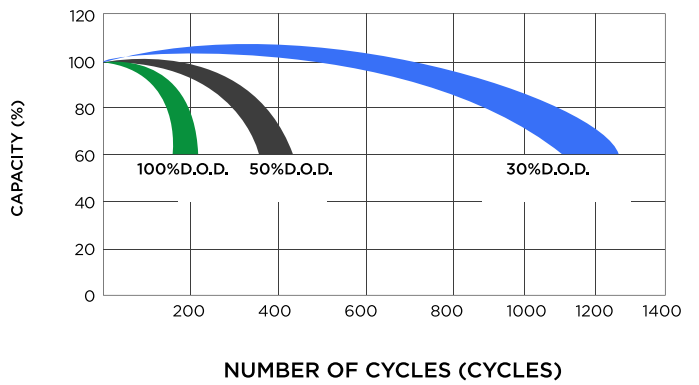
Discharge characteristic (25°C)



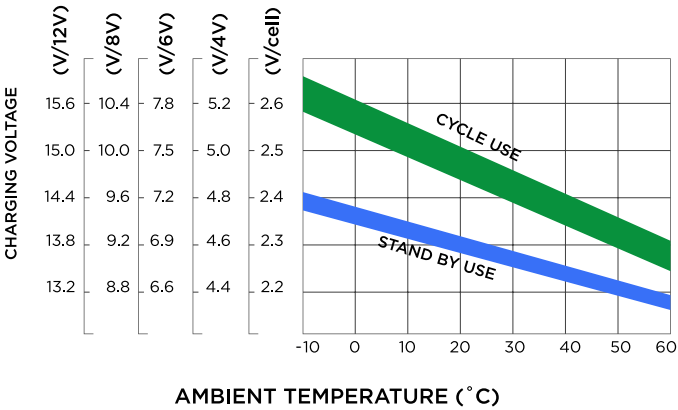
Temperature effects on float life



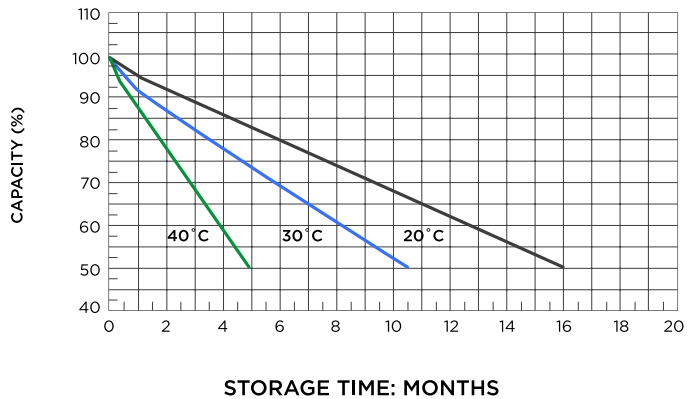
Cycle service life in relation to depth of discharge



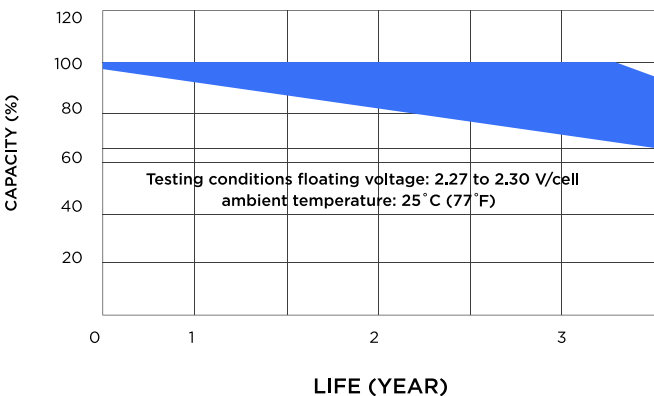
Relationship between charging voltage and temperature



Self-discharge characteristic



Life characteristics of standby use



Temperature effects on capacity

