BG-1223

(12V 2.3Ah/20hr)

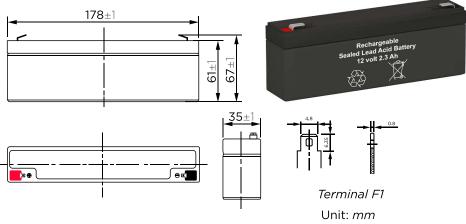
Rechargeable Sealed Lead Acid Battery



Technical Specification Sheet



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 (0.115A, 10.5V) | 2.3Ah | | | | | |
| | 10 hour rate (0.20A, 10.5V) | 2.0Ah | | | | | |
| | 5 hour rate (0.39A, 10.5V) | 1.95Ah | | | | | |
| | 1 hour rate (1.46A, 9.6V) | 1.46Ah | | | | | |
| Internal Resistance Full charged Battery77°F(25°C):65mΩ | | | | | | | |
| Capacity affected by Temperature (20 hour rate) | 104°F(40°C) | 102% | | | | | |
| | 77°F(25°C) | 100% | | | | | |
| | 32°F(10°C) | 85% | | | | | |
| (20 11001 1010) | 5°F(-15°C) | 65% | | | | | |
| | Capacity after 3 month storage | 90% | | | | | |
| Self-Discharge 68°F(20°C) | Capacity after 6 month storage | 80% | | | | | |
| 00 1 (20 0) | Capacity after 12month storage | 60% | | | | | |
| Max. discharge current 77°F(25°C): 34.5A(5S) | | | | | | | |
| Charge | Float: 13.6-13.8 V/77°F/(25°C) | | | | | | |
| (Constant Voltage) | Cycle: 14.5-14.9 V/77°F/(25°C) Max. Current: 0.57A | | | | | | |

| 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 | 9.00 | 5.70 | 4.40 | 2.50 | 1.46 | 0.59 | 0.41 | 0.23 | 0.125 |
| 1.65V | 8.64 | 5.47 | 4.27 | 2.41 | 1.38 | 0.57 | 0.40 | 0.22 | 0.120 |
| 1.70V | 8.27 | 5.23 | 4.13 | 2.29 | 1.29 | 0.54 | 0.39 | 0.21 | 0.120 |
| 1.75V | 7.89 | 4.98 | 3.98 | 2.16 | 1.19 | 0.49 | 0.37 | 0.20 | 0.115 |
| 1.80V | 7.50 | 4.72 | 3.82 | 2.02 | 1.08 | 0.45 | 0.34 | 0.18 | 0.105 |

| 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 | 17.5 | 11.0 | 8.50 | 4.83 | 3.50 | 2.78 | 1.54 | 1.08 | 0.75 |
| 1.65V | 16.7 | 10.5 | 8.14 | 4.52 | 3.38 | 2.46 | 1.45 | 1.04 | 0.74 |
| 1.70V | 16.0 | 10.0 | 7.86 | 4.28 | 3.25 | 2.28 | 1.35 | 0.98 | 0.73 |
| 1.75V | 15.3 | 9.46 | 7.56 | 4.02 | 3.11 | 2.09 | 1.14 | 0.93 | 0.71 |
| 1.80V | 14.4 | 8.94 | 7.24 | 3.74 | 3.00 | 1.86 | 1.02 | 0.84 | 0.62 |

SPECIFICATION

| Nominal voltage | _12V |
|------------------------|------------|
| Number of cells | 6 |
| Length (mm/inch) | 178/7.01 |
| Width (mm/inch) | _35/1.38 |
| Height (mm/inch) | 61/2.4 |
| Total Height (mm/inch) | 67/2.64 |
| Approx.Weight (kg/lbs) | _0.99/2.18 |
| | |

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.

| 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 |

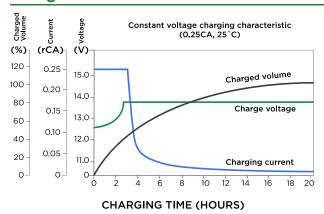
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(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.

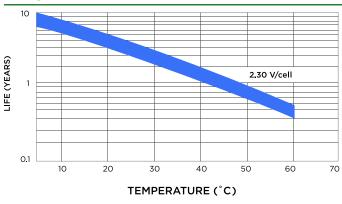
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Battery .

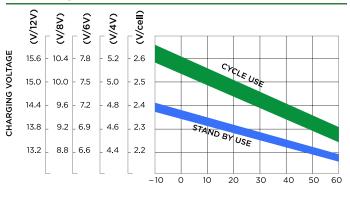
Charge characteristic curve



Temperature effects on float life

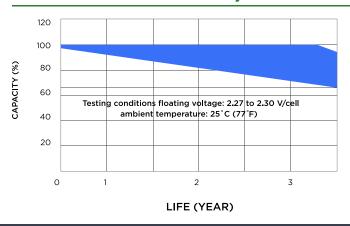


Relationship between charging voltage and temperature

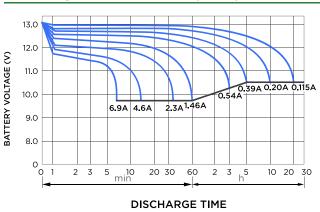


AMBIENT TEMPERATURE (°C)

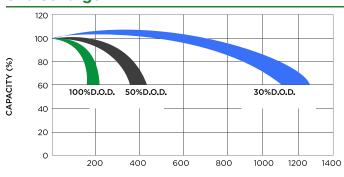
Life characteristics of standby use



Discharge characteristic (25°C)

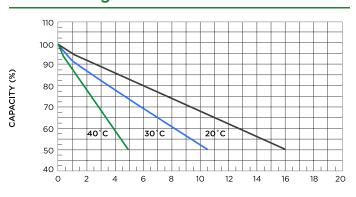


Cycle service life in relation to depth of discharge



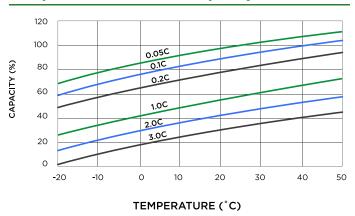
NUMBER OF CYCLES (CYCLES)

Self-discharge characteristic



STORAGE TIME: MONTHS

Temperature effects on capacity



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