

SB12260 12V 26Ah(20hr)

The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates 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

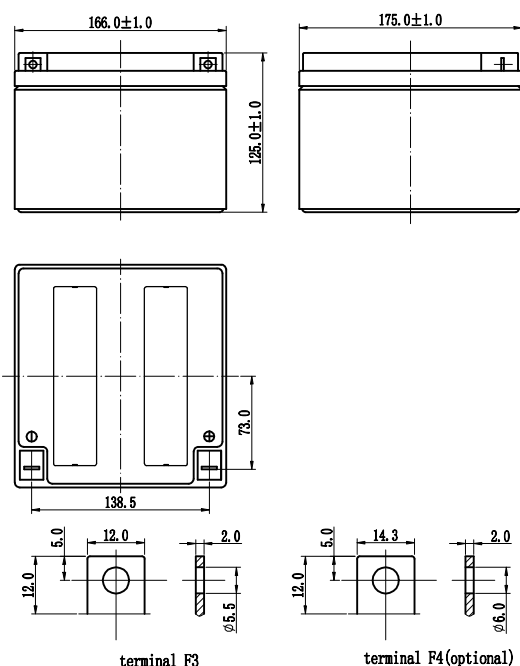
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|--------------|----------------|----------------|-----------|-------|--------------|----------|------------|---------------|
| Component | Positive plate | Negative plate | Container | Cover | Safety valve | Terminal | Separator | Electrolyte |
|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

General 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.

Dimensions and Weight

| | |
|--------------------------|------------|
| Length(mm / inch) | 166 / 6.54 |
| Width(mm / inch) | 175 / 6.89 |
| Height(mm / inch) | 125 / 4.92 |
| Total Height(mm / inch) | 125 / 4.92 |
| Approx. Weight(Kg / lbs) | 8.1 / 17.8 |



Performance Characteristics

| | |
|--|--------------|
| Nominal Voltage | 12V |
| Number of cell | 6 |
| Design Life | 5 years |
| Nominal Capacity 77°F(25°C) | |
| 20 hour rate (1.2A, 10.5V) | 26Ah |
| 10 hour rate (2.37A, 10.5V) | 25.7Ah |
| 5 hour rate (4.1A, 10.5V) | 22.5Ah |
| 1 hour rate (16A, 9.6V) | 18Ah |
| Internal Resistance | |
| Fully Charged battery 77°F(25°C) | 12mOhms |
| Self-Discharge | |
| 3% of capacity declined per month at 20°C(average) | |
| Operating Temperature Range | |
| Discharge | -20~60°C |
| Charge | -10~60°C |
| Storage | -20~60°C |
| Max. Discharge Current 77°F(25°C) | 300A(5s) |
| Short Circuit Current | 1200A |
| Charge Methods: Constant Voltage Charge 77°F(25°C) | |
| Cycle use | 2.30-2.35VPC |
| Maximum charging current | 9.6A |
| Temperature compensation | -30mV/°C |
| Standby use | 2.23-2.27VPC |
| Temperature compensation | -20mV/°C |

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

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 1h | 3h | 5h | 10h | 20h |
|----------------------|------|-------|-------|-------|------|------|------|------|------|
| 1.60V | 95.0 | 64.0 | 48.0 | 28.5 | 16.0 | 6.74 | 4.47 | 2.52 | 1.24 |
| 1.65V | 90.1 | 60.9 | 45.9 | 27.4 | 15.4 | 6.53 | 4.36 | 2.47 | 1.23 |
| 1.70V | 84.9 | 57.8 | 43.7 | 26.2 | 14.8 | 6.30 | 4.24 | 2.42 | 1.22 |
| 1.75V | 79.7 | 54.5 | 41.1 | 24.9 | 14.2 | 6.05 | 4.10 | 2.37 | 1.20 |
| 1.80V | 74.3 | 51.3 | 39.1 | 23.6 | 13.5 | 5.78 | 3.95 | 2.31 | 1.18 |

Discharge Constant Power (Watts at 77°F25°C)

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h |
|----------------------|------|-------|-------|-------|-------|------|------|------|------|
| 1.60V | 185 | 121 | 90.0 | 55.0 | 40.0 | 31.7 | 19.6 | 13.4 | 8.54 |
| 1.65V | 173 | 114 | 85.1 | 52.3 | 38.2 | 30.3 | 19.0 | 13.1 | 8.39 |
| 1.70V | 161 | 107 | 80.2 | 49.4 | 36.3 | 28.9 | 18.3 | 12.5 | 8.22 |
| 1.75V | 151 | 99.7 | 75.2 | 46.6 | 34.3 | 27.5 | 17.6 | 12.0 | 8.03 |
| 1.80V | 139 | 92.7 | 70.3 | 43.7 | 32.3 | 26.0 | 16.9 | 11.4 | 7.83 |

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

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