



KBL121500 12V 150Ah(10hr) - LONG LIFE

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

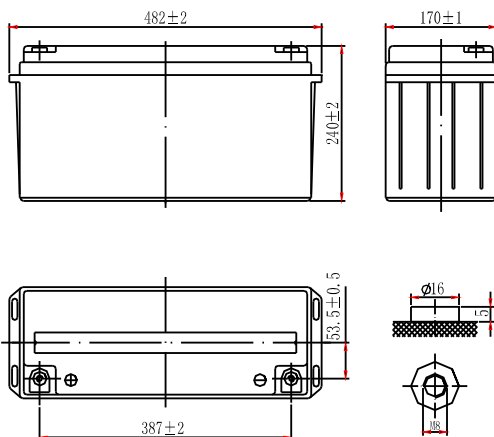
| | | | | | | | | |
|--------------|----------------|----------------|-----------|-------|--------------|----------|------------|---------------|
| Component | Positive plate | Negative plate | Container | Cover | Safety valve | Terminal | Separator | Electrolyte |
| Raw material | Lead dioxide | Lead | 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) | 482 / 19.0 |
| Width(mm / inch) | 170 / 6.69 |
| Height(mm / inch) | 240 / 9.45 |
| Total Height(mm / inch) | 240 / 9.45 |
| Approx. Weight(Kg / lbs) | 44.8 / 98.8 |



Performance Characteristics

| | |
|--|--------------|
| Nominal Voltage | 12V |
| Number of cell | 6 |
| Design Life | 10 years |
| Nominal Capacity 77°F(25°C) | |
| 10 hour rate (15.0A, 10.8V) | 150Ah |
| 5 hour rate (24.5A, 10.5V) | 122.5Ah |
| 1 hour rate (103A, 9.6V) | 103Ah |
| Internal Resistance | |
| Fully Charged battery 77°F(25°C) | 3.1mOhms |
| 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) | 970A(5s) |
| Short Circuit Current | 2800A |
| Charge Methods: Constant Voltage Charge 77°F(25°C) | |
| Cycle use | 2.30-2.35VPC |
| Maximum charging current | 40A |
| Temperature compensation | -30mV/°C |
| Standby use | 2.23-2.27VPC |
| Temperature compensation | -20mV/°C |

Discharge Constant Current (Amperes at 68°F20°C)

| End Point Volts/Cell | 10min | 15min | 30min | 1h | 3h | 5h | 10h | 20h |
|----------------------|-------|-------|-------|------|------|------|------|------|
| 1.60V | 340 | 283 | 186 | 103 | 42.9 | 27.6 | 15.4 | 8.07 |
| 1.65V | 322 | 268 | 177 | 98.7 | 41.1 | 26.4 | 15.3 | 8.03 |
| 1.70V | 303 | 254 | 167 | 94.1 | 39.3 | 25.3 | 15.2 | 7.98 |
| 1.75V | 285 | 239 | 158 | 89.2 | 37.4 | 24.5 | 15.1 | 7.93 |
| 1.80V | 274 | 230 | 153 | 87.2 | 36.7 | 23.7 | 15.0 | 7.88 |

Discharge Constant Power (Watts at 68°F20°C)

| End Point Volts/Cell | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h |
|----------------------|-------|-------|-------|-------|-----|------|------|------|
| 1.60V | 605 | 505 | 329 | 241 | 186 | 109 | 79.2 | 53.7 |
| 1.65V | 583 | 487 | 318 | 234 | 182 | 107 | 77.2 | 52.4 |
| 1.70V | 560 | 470 | 308 | 227 | 178 | 104 | 75.2 | 51.0 |
| 1.75V | 537 | 452 | 297 | 220 | 174 | 101 | 73.3 | 50.0 |
| 1.80V | 515 | 435 | 286 | 212 | 170 | 97.6 | 71.3 | 48.8 |

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

