

# KAISE®

## KB1290F2 12V9Ah

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.



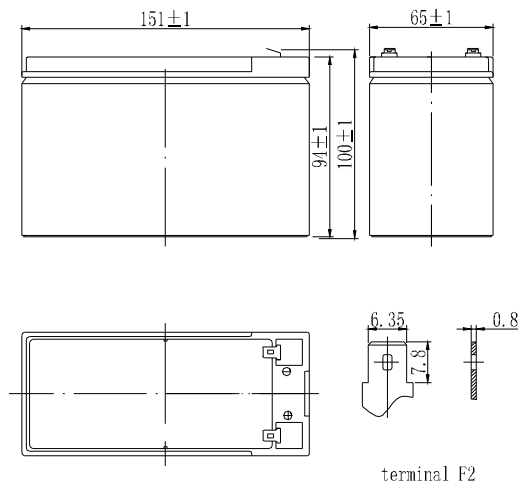
### Construction Design life - 3~5 anos

| 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.
- Case and cover available in both standard and flame retardant ABS.

### Dimensions and Weight



### Technology Parameter

|                                 |                                                    |                       |                      |                      |
|---------------------------------|----------------------------------------------------|-----------------------|----------------------|----------------------|
| Battery model                   | KB12V9                                             |                       |                      |                      |
| Nominal voltage                 | 12V                                                |                       |                      |                      |
| Number of cell                  | 6                                                  |                       |                      |                      |
| Capacity<br>(25℃)               | 20hR(0.45A,<br>10.5V)                              | 10hR(0.86A,<br>10.5V) | 5hR(1.57A,<br>10.5V) | 1hR(6.66A,<br>9.60V) |
|                                 | 9Ah                                                | 8.6Ah                 | 7.85Ah               | 6.66Ah               |
| Dimensions                      | Length                                             | Width                 | Height               | Total Height         |
|                                 | 151±1mm                                            | 65±1mm                | 94±1mm               | 100±1mm              |
| Approx. weight                  | 2.78Kg (6.13 lbs)                                  |                       |                      |                      |
| Internal resistance             | Full charged at 25℃: 11mOhms                       |                       |                      |                      |
| Self discharge                  | 3% of capacity declined per month at 20℃ (average) |                       |                      |                      |
| Operating<br>temperature range  | Discharge                                          | Charge                |                      | Storage              |
|                                 | -20～60℃                                            | -10～60℃               |                      | -20～60℃              |
| Max. discharge<br>current (25℃) | 135A (5s)                                          |                       |                      |                      |
| Short circuit<br>current        | 450A                                               |                       |                      |                      |

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

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 1h   | 3h   | 5h   | 10h  | 20h  |
|----------------------|------|-------|-------|-------|------|------|------|------|------|
| 1.60V                | 36.1 | 25.2  | 19.3  | 11.6  | 6.66 | 2.59 | 1.62 | 0.88 | 0.47 |
| 1.65V                | 34.6 | 24.3  | 18.5  | 11.1  | 6.42 | 2.53 | 1.61 | 0.87 | 0.47 |
| 1.70V                | 33.1 | 23.3  | 17.7  | 10.5  | 6.18 | 2.46 | 1.59 | 0.87 | 0.46 |
| 1.75V                | 31.6 | 22.2  | 16.9  | 9.86  | 5.94 | 2.39 | 1.57 | 0.86 | 0.45 |
| 1.80V                | 30   | 21.2  | 16.1  | 9.21  | 5.68 | 2.32 | 1.55 | 0.85 | 0.44 |

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

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 45min | 1h   | 2h   | 3h   | 5h   |
|----------------------|------|-------|-------|-------|-------|------|------|------|------|
| 1.60V                | 74.1 | 47.2  | 35.1  | 21.5  | 15.9  | 12.4 | 6.85 | 4.84 | 3.27 |
| 1.65V                | 70.5 | 45.6  | 34    | 20.8  | 15.3  | 12   | 6.72 | 4.79 | 3.24 |
| 1.70V                | 66.9 | 43.9  | 32.9  | 20.0  | 14.7  | 11.5 | 6.59 | 4.74 | 3.21 |
| 1.75V                | 63.3 | 42.2  | 31.8  | 19.2  | 14.1  | 11   | 6.46 | 4.69 | 3.18 |
| 1.80V                | 59.7 | 40.5  | 30.7  | 18.4  | 13.5  | 10.5 | 6.32 | 4.64 | 3.15 |

