



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.

| B |  | E PLATE<br>d | CONTAINER<br>ABS | COVER<br>ABS | SAFETY VALVE<br>Rubber | TERMINAL<br>Copper/Plug | SEPARATOR<br>Fiberglass | ELECTROLYTE<br>Sulfuric acid |
|---|--|--------------|------------------|--------------|------------------------|-------------------------|-------------------------|------------------------------|
|---|--|--------------|------------------|--------------|------------------------|-------------------------|-------------------------|------------------------------|

### Performance Characteristics

- **Nominal Voltage** ..... 12V
- **Number of Cell** ..... 6
- **Nominal Capacity (77°F /25°C)**
  - 20 Hour rate (0.45A, 10.5V) ..... 9.0Ah
  - 10 Hour rate (0.85A, 10.5V) ..... 8.5Ah
  - 5 Hour rate (1.54A, 10.5V) ..... 7.7Ah
  - 1 Hour rate (5.8A, 9.6V) ..... 5.8Ah
- **Internal Resistance**
  - Fully charged battery (77°F /25°C) ..... 20mΩ
- **Capacity affected by temperature (10 hour rate)**
  - 104°F (40°C) ..... 102%    32°F (10°C) ..... 85%
  - 77°F (25°C) ..... 100%    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** ..... 135A(5S)
- **Charge Methods: constant voltage charge 77°F /25°C**
  - Cycle use ..... 14.5 ~ 14.9V
  - Max. Current ..... 2.25A
  - Standby use ..... 13.6 ~ 13.8V

### Dimensions and Weight

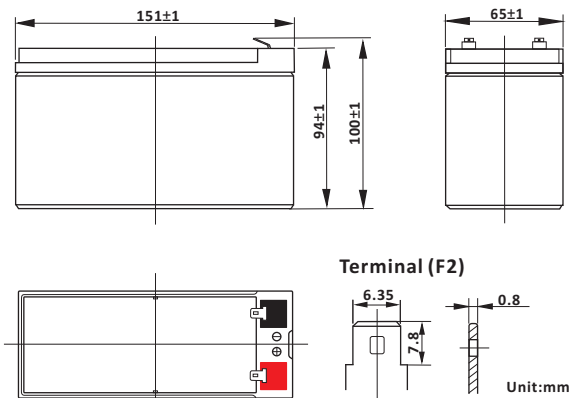
| Type                 | Length   | Width    | Height  | Total Height | Approx. Weight |
|----------------------|----------|----------|---------|--------------|----------------|
| <b>SI Units</b>      | 151mm    | 65mm     | 94mm    | 100mm        | 2.5Kg          |
| <b>English Units</b> | 5.94inch | 2.56inch | 3.7inch | 3.94inch     | 5.51lbs        |

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

| V/cell | 5min | 10min | 15min | 30min | 1h   | 3h   | 5h   | 10h  | 20h  |
|--------|------|-------|-------|-------|------|------|------|------|------|
| 1.60   | 32.5 | 24.0  | 16.8  | 9.90  | 5.80 | 2.33 | 1.60 | 0.88 | 0.47 |
| 1.65   | 31.7 | 23.5  | 16.3  | 9.79  | 5.75 | 2.29 | 1.56 | 0.87 | 0.46 |
| 1.70   | 30.5 | 22.7  | 15.8  | 9.36  | 5.71 | 2.25 | 1.55 | 0.86 | 0.46 |
| 1.75   | 29.8 | 21.8  | 14.8  | 8.91  | 5.66 | 2.20 | 1.54 | 0.85 | 0.45 |
| 1.80   | 29.2 | 21.0  | 13.9  | 8.45  | 5.51 | 2.14 | 1.53 | 0.83 | 0.44 |

### 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.**
- **A recognized component of CE and UL**
- **Computer designed lead, calcium tin alloy grid for high power density.**
- **Long service life, float or cyclic applications.**
- **Maintenance-free operation.**
- **Low self discharge**
- **Design life 5 years**



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

| V/cell | 5min | 10min | 15min | 30min | 45min | 1h   | 2h   | 3h   | 5h   |
|--------|------|-------|-------|-------|-------|------|------|------|------|
| 1.60   | 71.7 | 44.8  | 34.6  | 19.6  | 14.5  | 11.5 | 6.30 | 4.34 | 3.10 |
| 1.65   | 68.3 | 44.3  | 34.1  | 19.1  | 14.2  | 11.2 | 6.23 | 4.29 | 3.04 |
| 1.70   | 64.8 | 42.9  | 32.1  | 18.5  | 13.7  | 11.0 | 6.08 | 4.20 | 2.98 |
| 1.75   | 61.4 | 41.1  | 31.2  | 17.6  | 12.9  | 10.7 | 5.94 | 4.08 | 2.92 |
| 1.80   | 58.0 | 39.2  | 29.4  | 16.6  | 12.2  | 10.4 | 5.77 | 3.92 | 2.85 |

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

