



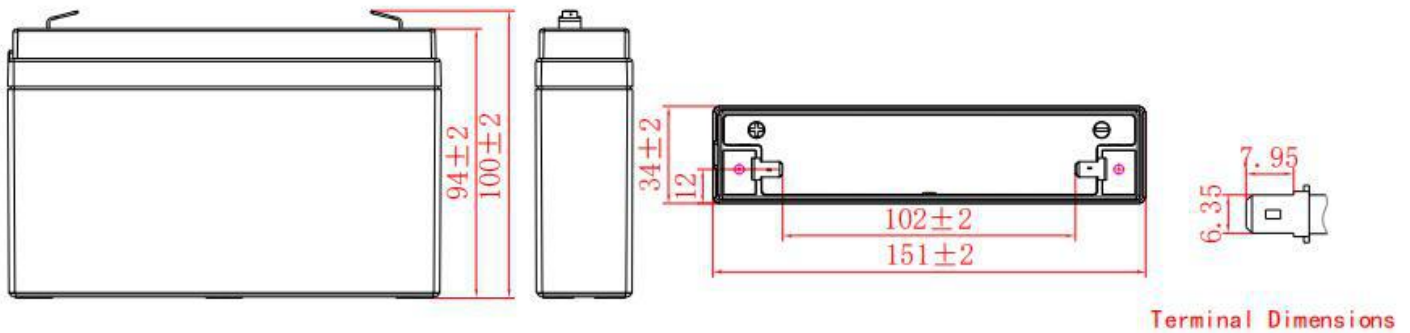
## General Features

- ▶ High corrosion resistant performance: Pb-Ca multi-alloy grid
- ▶ High energy density and power density
- ▶ Optimized capability of instant high-current discharging
- ▶ Excellent charge acceptance ability
- ▶ Excellent deep cycle discharge capability
- ▶ Strong high and low temperature performance
- ▶ Precision sealing technology



**Dimension: 151(L) × 34(W) × 94(H) × 100(TH)**

**Unit: mm**



| Specification                               |   |
|---|---|
| Nominal Voltage                             | 6V  |
| Nominal Capacity                            | 8.0Ah                                     |
| Design life                                 | 5 years                                   |
| Terminal                                    | F1/F2                                     |
| Approx. Weight                              | Approx 1.15kg (2.54lbs)                   |
| Container Material                          | ABS                                       |
| short-circuit current                       | 500A                                      |
| Internal resistance(Full charged at 25°C: ) | 12.0 mΩ                                   |
| Self discharge                              | 3% of capacity declined per month at 25°C |
| Operating Temperature                       |   |
| Discharge:                                  | -20 ~50°C(-4~ 122°F)                      |
| Charge :                                    | -20 ~50°C(-4~ 122°F)                      |
| Storage:                                    | -20 ~50°C(-4~ 122°F)                      |
| Charge Method(25 °C)                        |   |
| Charge current:                             | Max. 2.0A;Recom.0.80A                     |
| Float charge:6.75-6.90V                     | recom.6.75V(-9mV/ °C)                     |
| Equalize charge:6.90-7.05V                  | recom.7.05V(-12mV/ °C)                    |
| Cycle charge:7.20-7.50V                     | recom.7.35V(-15mV/ °C)                    |

## Standards

Executive standard GB/T 19639.1-2014

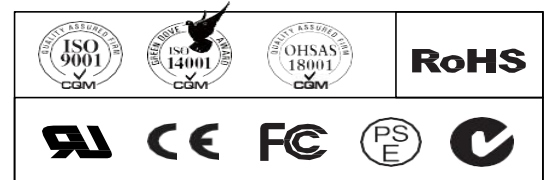
## Applications

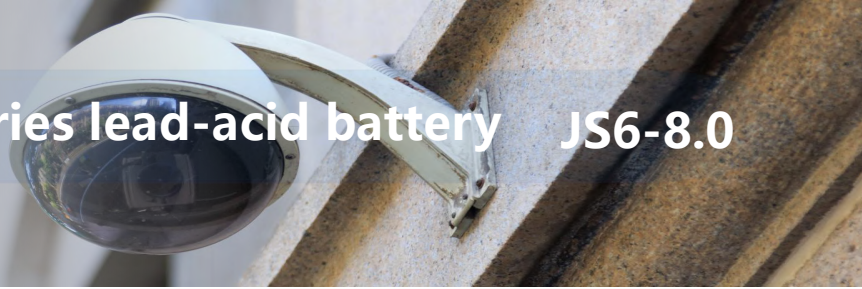
- ▶ UPS/EPS
- ▶ Power systems
- ▶ Telecommunications system
- ▶ Emergency lighting, Auto control system
- ▶ Solar/wind generating storage cyclic
- ▶ Other general purpose

## Rated Capacity

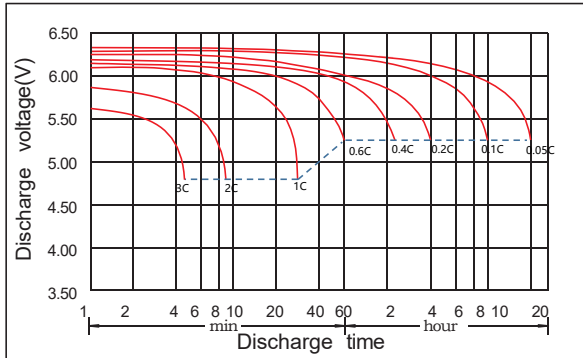
|                               |        |
|-------------------------------|--------|
| 20Hour Rate (0.400A to 5.25V) | 8.00Ah |
| 3Hour Rate (2.30A to 5.10V)   | 6.90Ah |
| 1Hour Rate (5.37A to 4.80V)   | 5.37Ah |

## Attain Certificate

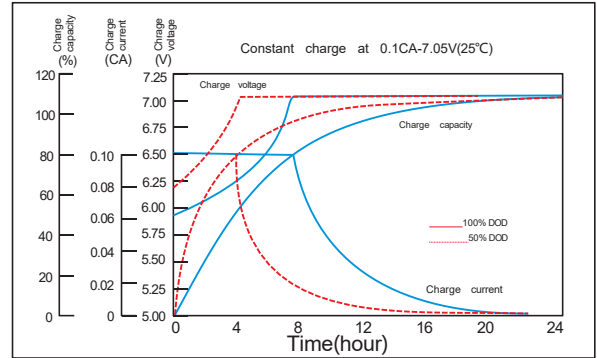




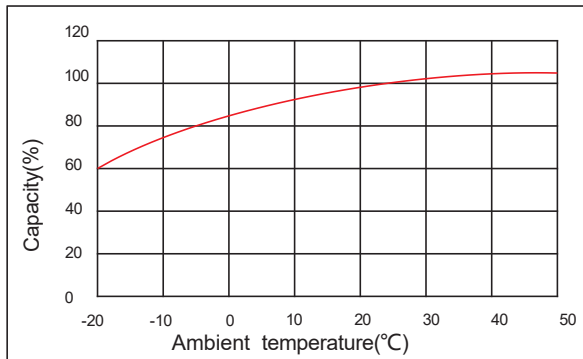
## Discharge characteristic



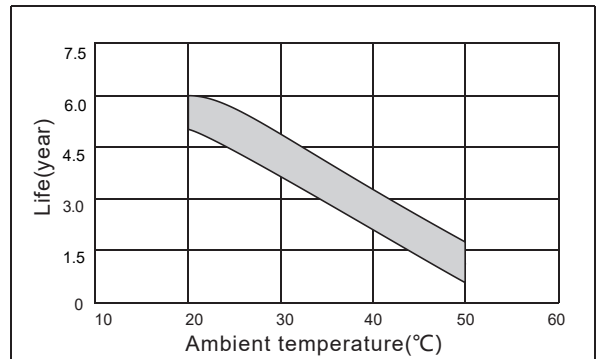
## Charging characteristic



## The effect of temperature on capacity



## The effect of temperature on float life



### Constant Current Discharge Characteristics Unit:A (25°C,77°F)

| FV/Time | 5min | 10min | 15min | 30min | 45min | 1h   | 1.5h | 2h   | 3h   | 4h   | 5h   | 6h   | 8h    | 10h   | 20h   |
|---------|------|-------|-------|-------|-------|------|------|------|------|------|------|------|-------|-------|-------|
| 1.60V   | 34.7 | 21.7  | 17.4  | 10.1  | 6.59  | 5.37 | 3.27 | 3.07 | 2.42 | 1.80 | 1.53 | 1.16 | 1.01  | 0.806 | 0.424 |
| 1.65V   | 34.4 | 20.8  | 16.0  | 9.61  | 6.18  | 5.04 | 3.24 | 2.95 | 2.34 | 1.74 | 1.50 | 1.15 | 0.993 | 0.797 | 0.416 |
| 1.70V   | 28.2 | 19.5  | 14.9  | 9.31  | 5.99  | 4.88 | 3.17 | 2.90 | 2.30 | 1.65 | 1.48 | 1.13 | 0.976 | 0.781 | 0.408 |
| 1.75V   | 26.2 | 18.7  | 13.9  | 9.10  | 5.78  | 4.71 | 3.11 | 2.83 | 2.27 | 1.63 | 1.41 | 1.10 | 0.960 | 0.765 | 0.400 |
| 1.80V   | 24.1 | 17.5  | 12.9  | 8.80  | 5.57  | 4.55 | 3.04 | 2.75 | 2.15 | 1.60 | 1.36 | 1.08 | 0.952 | 0.749 | 0.384 |
| 1.85V   | 21.5 | 16.2  | 11.4  | 8.06  | 5.17  | 4.21 | 2.95 | 2.61 | 2.02 | 1.55 | 1.30 | 1.05 | 0.928 | 0.726 | 0.378 |

### Constant Power Discharge Characteristics Unit: W/cell (25°C ,77°F )

| FV/Time | 5min | 10min | 15min | 30min | 45min | 1h   | 1.5h | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h   |
|---------|------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|-------|
| 1.60V   | 65.1 | 39.1  | 32.0  | 17.1  | 11.8  | 9.85 | 6.57 | 5.77 | 4.57 | 3.41 | 2.89 | 2.28 | 1.90 | 1.56 | 0.840 |
| 1.65V   | 60.0 | 37.0  | 29.9  | 17.0  | 11.1  | 9.27 | 6.48 | 5.54 | 4.44 | 3.30 | 2.84 | 2.25 | 1.87 | 1.54 | 0.817 |
| 1.70V   | 54.8 | 36.0  | 28.6  | 16.9  | 10.8  | 8.98 | 6.40 | 5.44 | 4.37 | 3.13 | 2.76 | 2.23 | 1.86 | 1.52 | 0.811 |
| 1.75V   | 49.8 | 34.8  | 27.6  | 16.7  | 10.5  | 8.72 | 6.27 | 5.34 | 4.21 | 3.09 | 2.70 | 2.18 | 1.79 | 1.48 | 0.793 |
| 1.80V   | 44.7 | 33.7  | 26.3  | 16.6  | 10.3  | 8.59 | 6.13 | 5.28 | 4.19 | 3.06 | 2.63 | 2.14 | 1.72 | 1.45 | 0.788 |
| 1.85V   | 39.8 | 31.4  | 23.6  | 15.2  | 9.64  | 8.03 | 6.04 | 4.62 | 4.00 | 3.01 | 2.51 | 2.10 | 1.65 | 1.43 | 0.781 |