



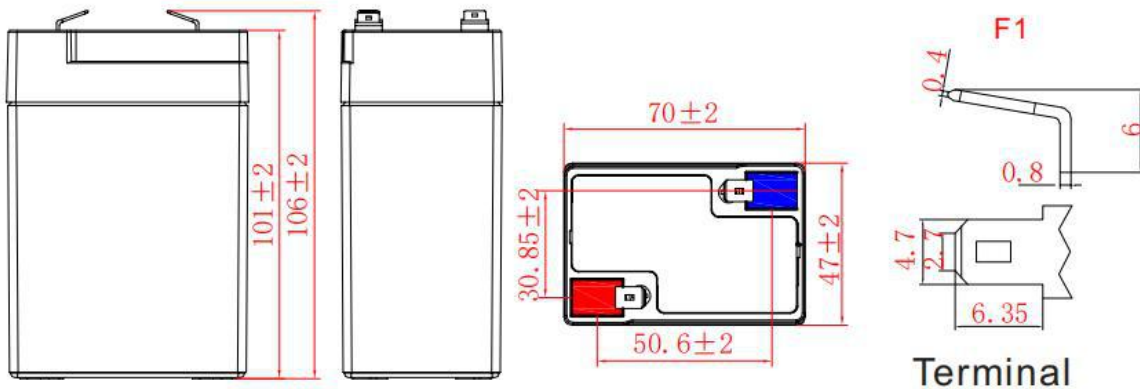
## General Features

- ▶ 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: 70(L) × 47(W) × 101(H) × 106(TH)**

**Unit: mm**



**Terminal**

| Specification                               |   |
|---|---|
| Nominal Voltage                             | 6V  |
| Nominal Capacity                            | 5.0Ah                                     |
| Design life                                 | 5 years                                   |
| Terminal                                    | F1/F2                                     |
| Approx. Weight                              | Approx 0.75kg (1.65lbs)                   |
| Container Material                          | ABS                                       |
| short-circuit current                       | 200A                                      |
| Internal resistance(Full charged at 25°C: ) | 30.0 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. 1.25A;Recom.0.50A                    |
| 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

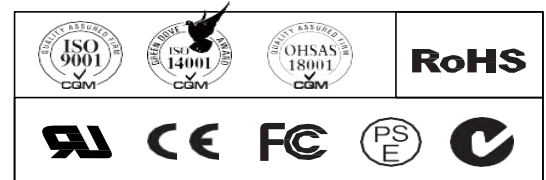
## Applications

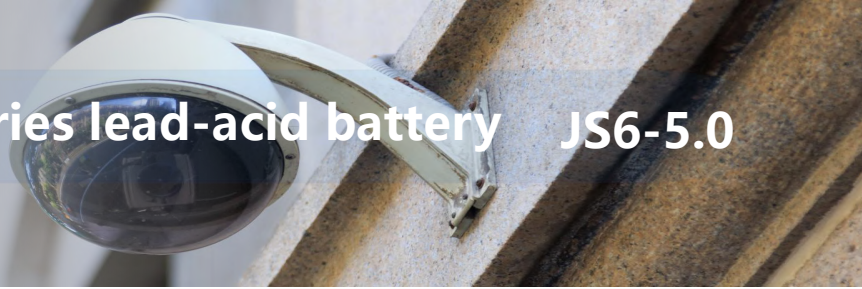
- ▶ UPS/EPS
- ▶ Power systems
- ▶ Telecommunications system
- ▶ Emergency lighting, Auto control system
- ▶ Solar/wind generating storage cyclic
- ▶ Other general purpose

## Rated Capacity

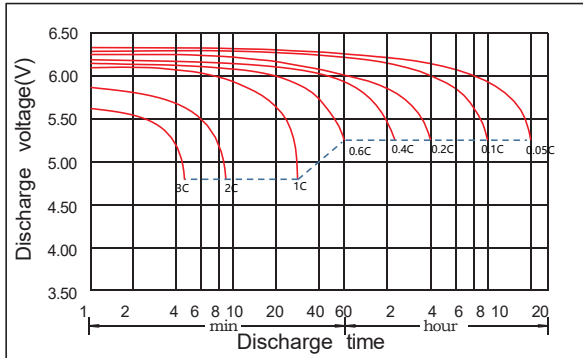
|                               |        |
|-------------------------------|--------|
| 20Hour Rate (0.250A to 5.25V) | 5.00Ah |
| 3Hour Rate (1.27A to 5.10V)   | 3.81Ah |
| 1Hour Rate (3.49A to 4.80V)   | 3.49Ah |

## Attain Certificate

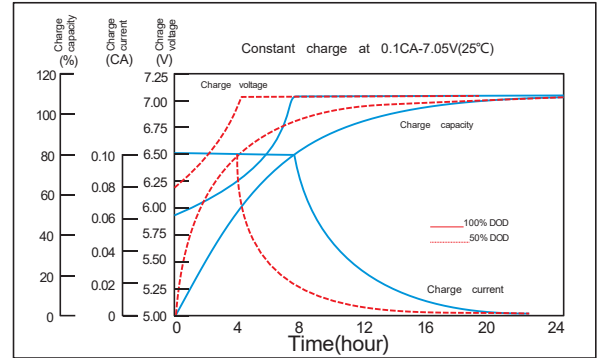




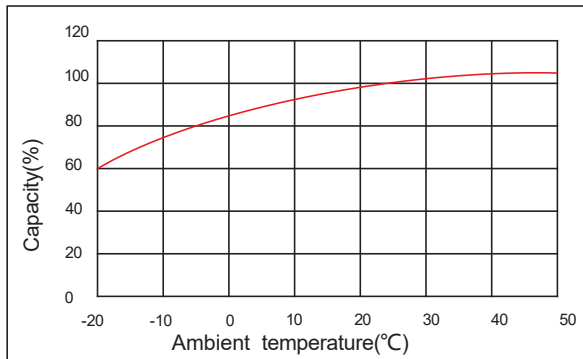
## Discharge characteristic



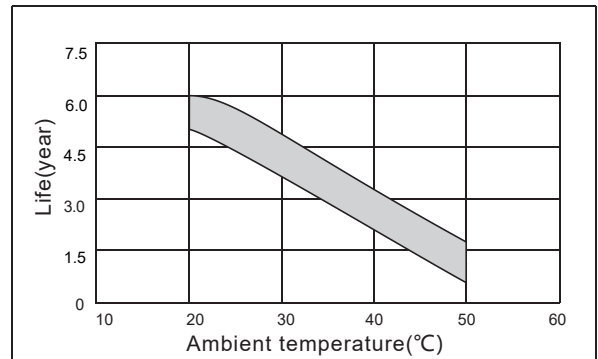
## Charging characteristic



## 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   | 21.0 | 15.1  | 11.8  | 6.67  | 4.59  | 3.49 | 2.79 | 1.89 | 1.33 | 1.10  | 0.940 | 0.715 | 0.621 | 0.512 | 0.265 |
| 1.65V   | 19.1 | 13.9  | 11.0  | 6.33  | 4.37  | 3.32 | 2.67 | 1.81 | 1.29 | 1.07  | 0.921 | 0.706 | 0.610 | 0.505 | 0.260 |
| 1.70V   | 18.3 | 13.4  | 10.7  | 6.18  | 4.28  | 3.25 | 2.62 | 1.78 | 1.27 | 1.01  | 0.910 | 0.692 | 0.600 | 0.494 | 0.254 |
| 1.75V   | 16.9 | 12.5  | 10.1  | 5.92  | 4.16  | 3.16 | 2.54 | 1.74 | 1.25 | 1.00  | 0.871 | 0.679 | 0.585 | 0.486 | 0.250 |
| 1.80V   | 15.5 | 11.7  | 9.62  | 5.66  | 3.98  | 3.03 | 2.46 | 1.69 | 1.18 | 0.979 | 0.835 | 0.665 | 0.571 | 0.475 | 0.240 |
| 1.85V   | 13.3 | 9.93  | 8.24  | 5.01  | 3.60  | 2.73 | 2.25 | 1.61 | 1.11 | 0.950 | 0.798 | 0.644 | 0.527 | 0.456 | 0.235 |

### 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   | 37.9 | 27.3  | 21.6  | 12.4  | 8.63  | 6.56 | 5.29 | 3.54 | 2.51 | 2.08 | 1.77 | 1.36 | 1.17 | 0.989 | 0.525 |
| 1.65V   | 34.7 | 25.5  | 20.4  | 11.9  | 8.25  | 6.30 | 5.10 | 3.42 | 2.45 | 2.02 | 1.74 | 1.34 | 1.15 | 0.971 | 0.510 |
| 1.70V   | 33.6 | 24.7  | 20.0  | 11.6  | 8.09  | 6.20 | 5.02 | 3.33 | 2.41 | 1.92 | 1.69 | 1.31 | 1.14 | 0.963 | 0.506 |
| 1.75V   | 31.4 | 23.6  | 19.1  | 11.2  | 7.90  | 6.04 | 4.90 | 3.27 | 2.37 | 1.90 | 1.66 | 1.29 | 1.10 | 0.941 | 0.496 |
| 1.80V   | 29.2 | 22.4  | 18.3  | 10.8  | 7.58  | 5.85 | 4.77 | 3.25 | 2.31 | 1.88 | 1.62 | 1.26 | 1.08 | 0.922 | 0.492 |
| 1.85V   | 25.3 | 19.0  | 15.8  | 9.68  | 6.97  | 5.30 | 4.37 | 3.11 | 2.17 | 1.86 | 1.57 | 1.23 | 1.05 | 0.907 | 0.487 |