

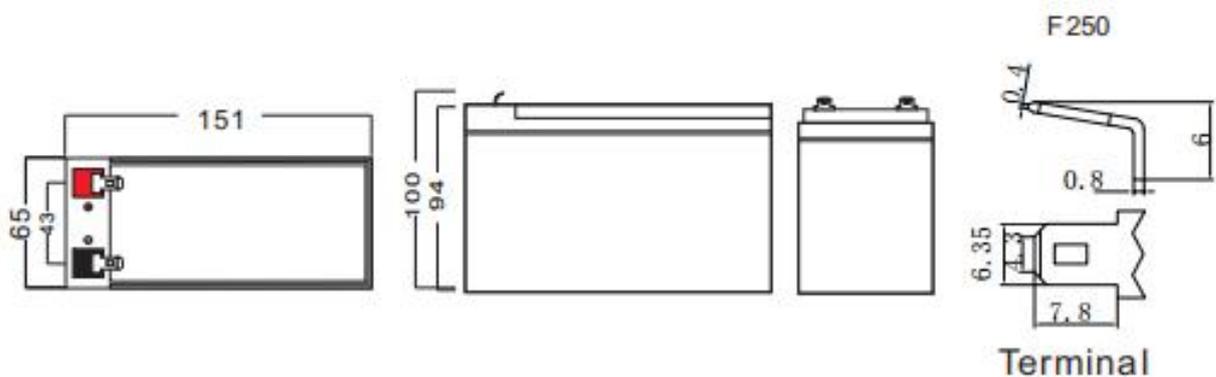
## General Features

- ▶ 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
- ▶ Long life



**Dimension: 151(L) × 65(W) × 94(H) × 100(TH)**

**Unit: mm**



| Specification                               |   |
|---|---|
| Nominal Voltage                             | 12V   |
| Nominal Capacity                            | 9.0Ah(38W@15min-rate to 1.67V percell@25°C) |
| Design life                                 | 5 years                                     |
| Terminal                                    | F1/F2                                       |
| Approx. Weight                              | Approx2.51kg (5.53lbs)                      |
| Container Material                          | ABS(UL94-HB, UL94-V0 Optional)              |
| short-circuit current                       | 666A  |
| Internal resistance(Full charged at 25°C: ) | 18.0 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. 2.7A;Recom.0.9A                        |
| Float charge:13.5-13.8V                     | recom.13.8V(-18mV/ °C)                      |
| Equalize charge:13.8-14.1V                  | recom.14.1V(-24mV/ °C)                      |
| Cycle charge:14.4-15.0V                     | recom.14.7V(-30mV/ °C)                      |

## Standards

Executive standard YD/T 3427-2018

## Applications

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

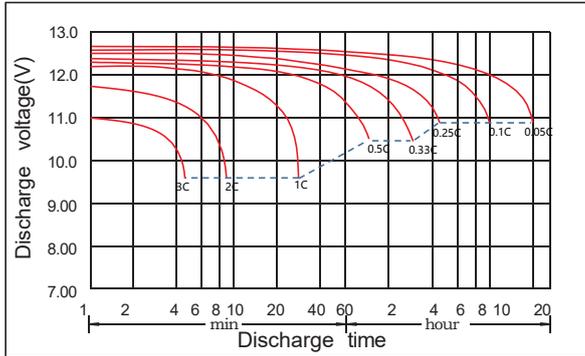
## Rated Capacity

|                               |        |
|-------------------------------|--------|
| 20Hour Rate (0.450A to 10.5V) | 9.00Ah |
| 3Hour Rate (2.37A to 10.2V)   | 7.11Ah |
| 1Hour Rate (6.02A to 9.6V)    | 6.02Ah |

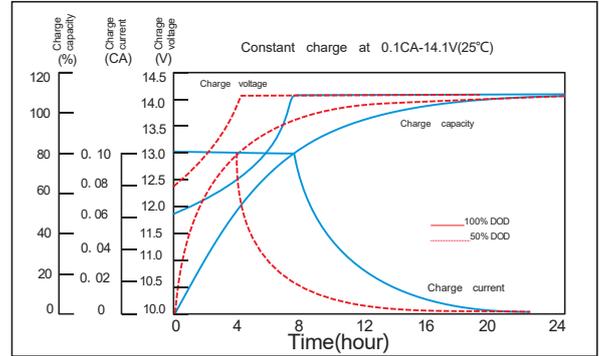
## Attain Certificate



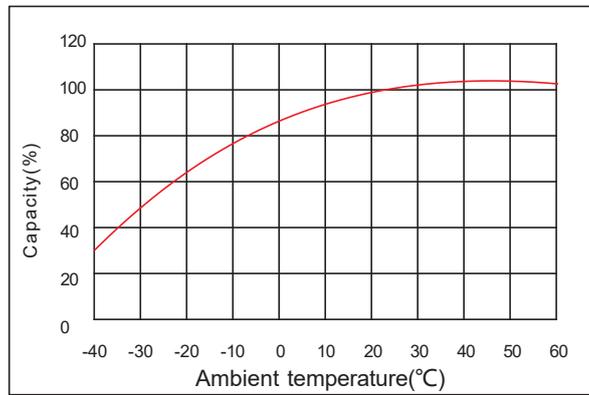
## Discharge characteristic



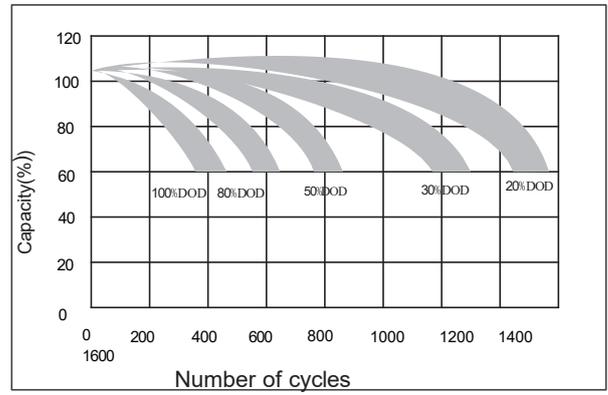
## Charging characteristic



## The effect of temperature on capacity



## The effect of discharge depth on cycle 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   | 40.0 | 34.0  | 20.5  | 11.0  | 8.03  | 6.02 | 4.21 | 3.40 | 2.48 | 1.99 | 1.69 | 1.31 | 1.12  | 0.910 | 0.510 |
| 1.67V   | 35.1 | 30.0  | 19.5  | 10.9  | 7.65  | 5.95 | 4.19 | 3.27 | 2.41 | 1.93 | 1.66 | 1.29 | 1.10  | 0.890 | 0.490 |
| 1.70V   | 32.8 | 28.2  | 19.3  | 10.8  | 7.49  | 5.90 | 4.15 | 3.20 | 2.37 | 1.83 | 1.64 | 1.27 | 1.08  | 0.870 | 0.470 |
| 1.75V   | 29.3 | 25.6  | 19.1  | 10.6  | 7.24  | 5.85 | 4.12 | 3.12 | 2.33 | 1.80 | 1.57 | 1.24 | 1.05  | 0.850 | 0.450 |
| 1.80V   | 26.1 | 23.1  | 17.4  | 10.5  | 6.97  | 5.75 | 4.02 | 3.04 | 2.21 | 1.76 | 1.50 | 1.21 | 1.01  | 0.830 | 0.430 |
| 1.85V   | 23.0 | 20.8  | 15.8  | 9.88  | 6.35  | 5.67 | 3.94 | 2.60 | 1.89 | 1.51 | 1.28 | 1.04 | 0.880 | 0.708 | 0.380 |

### 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   | 64.0 | 54.4  | 40.0  | 21.6  | 15.7  | 11.8 | 8.27 | 6.70 | 4.89 | 3.92 | 3.33 | 2.58 | 2.22 | 1.80 | 1.01  |
| 1.67V   | 58.6 | 50.1  | 38.0  | 21.4  | 15.0  | 11.7 | 8.25 | 6.44 | 4.75 | 3.80 | 3.27 | 2.54 | 2.18 | 1.76 | 0.970 |
| 1.70V   | 55.7 | 48.0  | 37.6  | 21.2  | 14.7  | 11.6 | 8.18 | 6.30 | 4.67 | 3.61 | 3.23 | 2.50 | 2.14 | 1.72 | 0.931 |
| 1.75V   | 51.3 | 44.8  | 37.2  | 20.8  | 14.2  | 11.5 | 8.12 | 6.15 | 4.59 | 3.55 | 3.09 | 2.44 | 2.08 | 1.68 | 0.891 |
| 1.80V   | 46.9 | 41.6  | 34.0  | 20.6  | 13.7  | 11.3 | 7.92 | 5.99 | 4.35 | 3.47 | 2.96 | 2.38 | 2.00 | 1.64 | 0.851 |
| 1.85V   | 42.5 | 38.4  | 31.0  | 19.5  | 12.5  | 11.2 | 7.80 | 5.15 | 3.74 | 2.99 | 2.53 | 2.06 | 1.75 | 1.41 | 0.760 |