

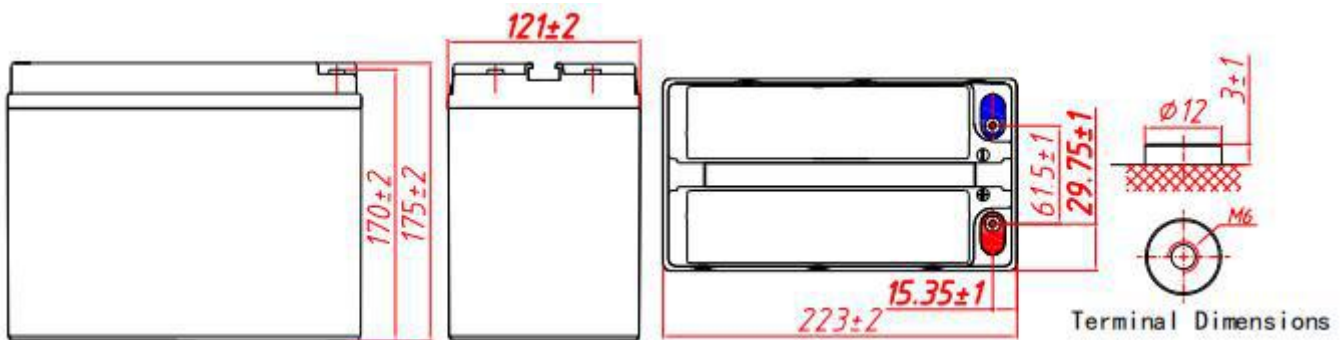
## General Features

- ▶ 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
- ▶ Strong high and low temperature performance
- ▶ Low self-discharge rate



**Dimension: 223(L) × 121(W) × 175(H) × 175(TH)**

**Unit: mm**



| Specification                |   |
|------------------------------|---|
| Nominal Voltage              | 12V                                       |
| Nominal Capacity             | 48Ah                                      |
| Design life                  | 5 years                                   |
| Terminal                     | M6  |
| Approx. Weight               | Approx 13.0kg (28.7lbs)                   |
| Container Material           | ABS                                       |
| Self discharge               | 3% of capacity declined per month at 25°C |
| Rated Capacity               |   |
| 20Hour Rate (2.80A to 10.5V) | 56.0Ah                                    |
| 3Hour Rate (16.0A to 10.5V)  | 48.0Ah                                    |
| 1Hour Rate (36.5A to 10.5V)  | 36.5Ah                                    |
| 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)         |   |
| Max charge current           | 7.2A                                      |
| Float Use:                   | 13.7-13.9V@25                             |
| Cycle Use :                  | 14.7-14.9V,@25                            |

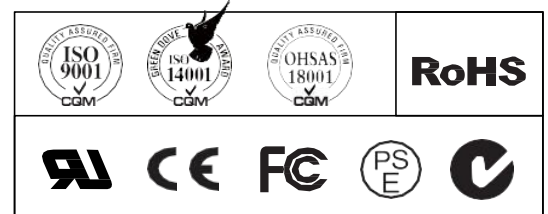
## Standards

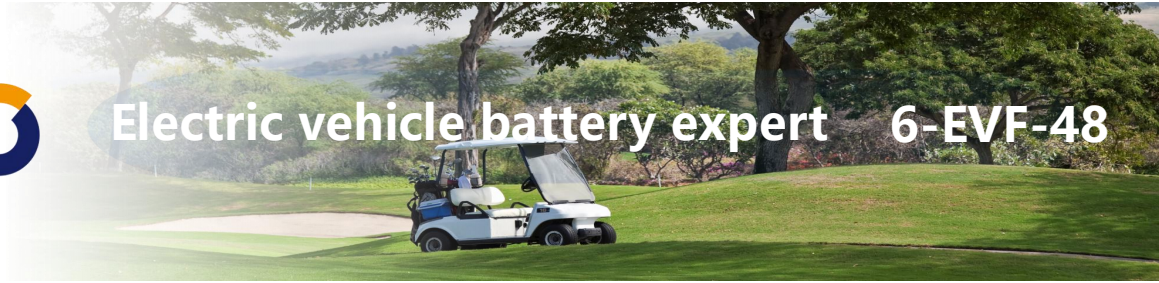
Executive standard :GB/T32620-2016

## Applications

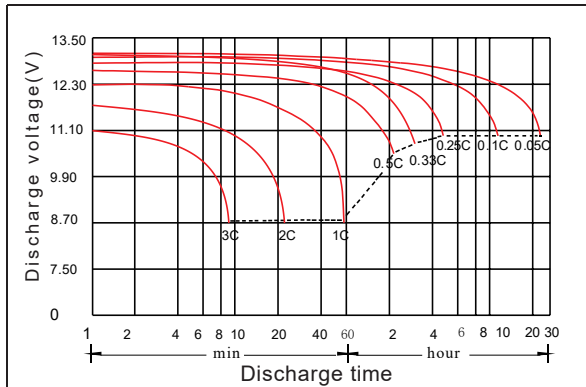
- ▶ Electric vehicle
- ▶ Electric wheelchair
- ▶ Electric scooter
- ▶ Electric play car for children
- ▶ Garbage truck
- ▶ Patrol car

## Attain Certificate

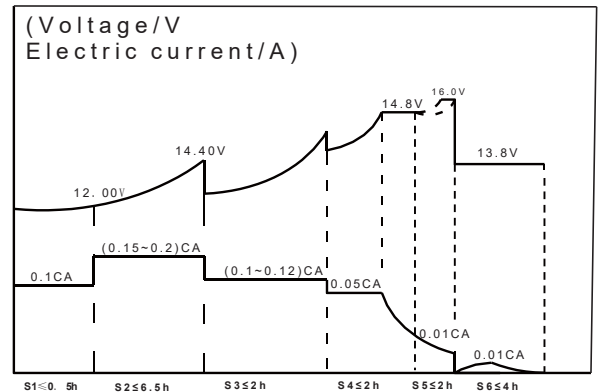




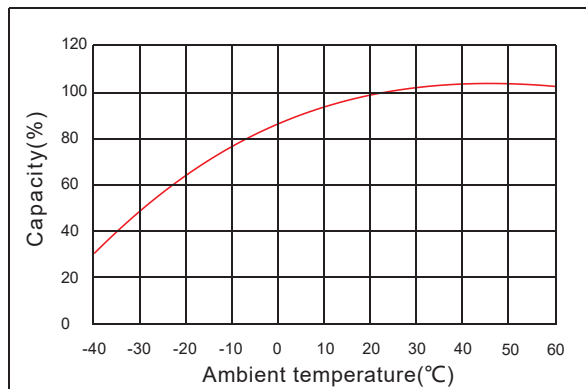
## Discharge characteristic



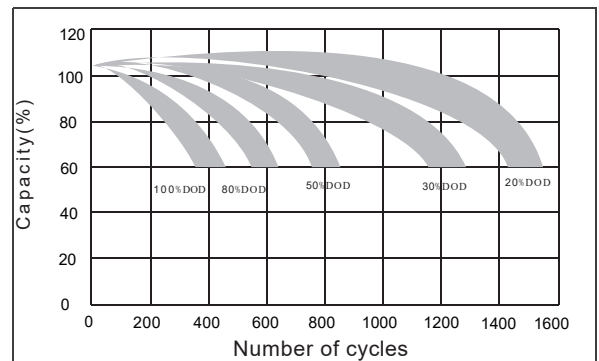
## Charging characteristic



## 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 | 30min | 1h   | 2h   | 3h   | 5h   | 8h   | 10h  | 20h  |
|---------|-------|------|------|------|------|------|------|------|
| 1.60V   | 56.6  | 37.6 | 22.7 | 16.6 | 10.3 | 6.35 | 5.35 | 2.86 |
| 1.65V   | 55.5  | 37.3 | 22.5 | 16.5 | 10.2 | 6.29 | 5.30 | 2.84 |
| 1.70V   | 54.4  | 37.1 | 22.3 | 16.2 | 10.1 | 6.24 | 5.25 | 2.82 |
| 1.75V   | 54.0  | 36.5 | 22.0 | 16.0 | 10.0 | 6.18 | 5.20 | 2.80 |
| 1.80V   | 51.7  | 35.6 | 21.6 | 15.9 | 9.76 | 6.18 | 5.15 | 2.78 |
| 1.85V   | 47.1  | 33.0 | 20.5 | 15.0 | 9.27 | 5.89 | 4.99 | 2.74 |

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

| FV/Time | 30min | 1h   | 2h   | 3h   | 5h   | 8h   | 10h  | 20h  |
|---------|-------|------|------|------|------|------|------|------|
| 1.60V   | 102   | 71.3 | 42.8 | 31.6 | 19.6 | 12.4 | 10.3 | 5.62 |
| 1.65V   | 101   | 70.6 | 42.6 | 31.2 | 19.5 | 12.2 | 10.2 | 5.60 |
| 1.70V   | 101   | 70.0 | 42.5 | 31.0 | 19.3 | 12.2 | 10.1 | 5.56 |
| 1.75V   | 101   | 69.4 | 42.2 | 30.8 | 19.2 | 12.1 | 10.0 | 5.54 |
| 1.80V   | 98.0  | 68.8 | 42.1 | 30.7 | 19.0 | 12.0 | 9.90 | 5.52 |
| 1.85V   | 89.8  | 63.8 | 40.2 | 29.2 | 18.1 | 11.6 | 9.72 | 5.46 |