

## 6-EVG-110

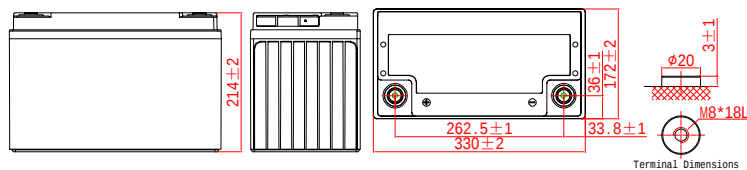


### General Features

- High corrosion resistant performance: Pb-Ca multi-alloy grid
- High energy density and power density
- Excellent charge acceptance ability
- Strong high and low temperature performance
- Optimized capability of instant high-current discharging
- Low self-discharge rate



Dimension: 330(L)×172(W)×214(H)×214(TH) Unit: mm



### Applications

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

### Specification

|                       |                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------|
| Nominal Voltage       | 12V                                                                                                 |
| Nominal Capacity      | 110Ah                                                                                               |
| Design life           | 10 years                                                                                            |
| Terminal              | M8                                                                                                  |
| Approx. Weight        | Approx 34.2kg (76.1lbs)                                                                             |
| Container Material    | ABS                                                                                                 |
| Rated Capacity        | <div>132.0Ah</div> 20Hour Rate (6.60A to 10.5V)                                                     |
|                       | <div>110.0Ah</div> 3Hour Rate (36.7A to 10.5V)                                                      |
|                       | <div>90.0Ah</div> 1Hour Rate (90.0A to 10.5V)                                                       |
| Operating Temperature | Discharge: -20 ~50°C (-4~ 122°F)<br>Charge: -20 ~50°C (-4~ 122°F)<br>Storage: -20 ~50°C (-4~ 122°F) |
| Charge Method (25 °C) | Float Use:13.7-13.9V@25<br>Cycle Use :14.7-14.9V,@25<br>Max charge current 16.5A                    |
| Self discharge        | 3% of capacity declined per month at 25°C                                                           |

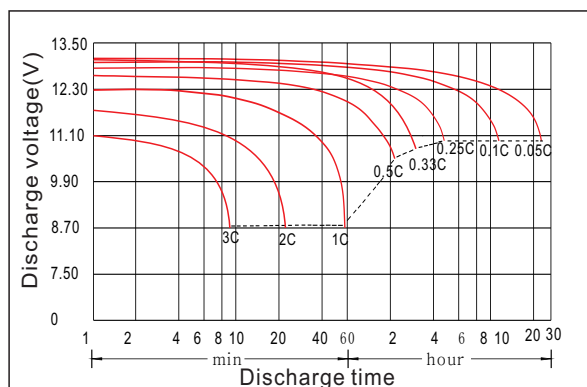
### Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

| FV/Time | 30min | 1h   | 2h   | 3h   | 5h   | 8h   | 10h  | 20h  |
|---------|-------|------|------|------|------|------|------|------|
| 1.60V   | 164   | 92.6 | 49.4 | 38.1 | 23.7 | 15.0 | 12.7 | 6.70 |
| 1.65V   | 160   | 92.0 | 49.1 | 37.8 | 23.6 | 14.9 | 12.5 | 6.67 |
| 1.70V   | 157   | 91.4 | 48.7 | 37.2 | 23.3 | 14.7 | 12.4 | 6.63 |
| 1.75V   | 156   | 90.0 | 48.0 | 36.7 | 23.0 | 14.6 | 12.3 | 6.60 |
| 1.80V   | 149   | 87.7 | 47.1 | 36.5 | 22.4 | 14.6 | 12.2 | 6.57 |
| 1.85V   | 136   | 81.3 | 44.7 | 34.4 | 21.3 | 13.9 | 11.8 | 6.45 |

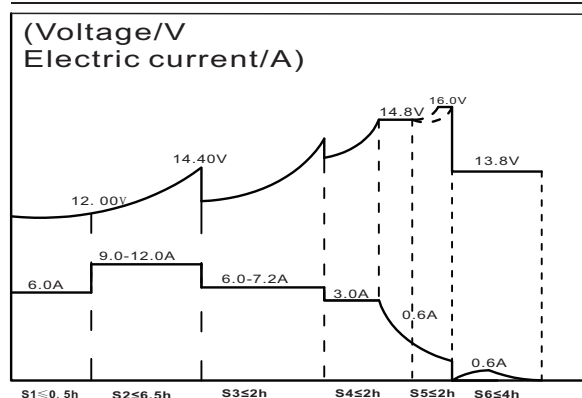
### Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

| FV/Time | 30min | 1h  | 2h   | 3h   | 5h   | 8h   | 10h  | 20h  |
|---------|-------|-----|------|------|------|------|------|------|
| 1.60V   | 296   | 176 | 93.3 | 72.5 | 45.0 | 29.2 | 24.4 | 13.3 |
| 1.65V   | 293   | 174 | 93.0 | 71.6 | 44.7 | 29.0 | 24.1 | 13.2 |
| 1.70V   | 293   | 173 | 92.7 | 71.1 | 44.5 | 28.8 | 23.8 | 13.1 |
| 1.75V   | 291   | 171 | 92.2 | 70.7 | 44.2 | 28.7 | 23.7 | 13.1 |
| 1.80V   | 283   | 170 | 91.9 | 70.5 | 43.6 | 28.4 | 23.4 | 13.0 |
| 1.85V   | 259   | 157 | 87.8 | 67.1 | 41.7 | 27.5 | 23.0 | 12.9 |

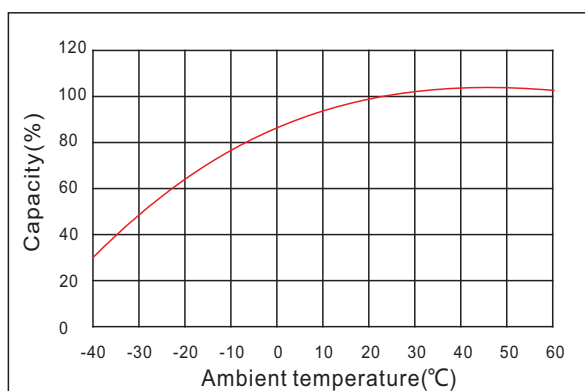
### Discharge characteristic



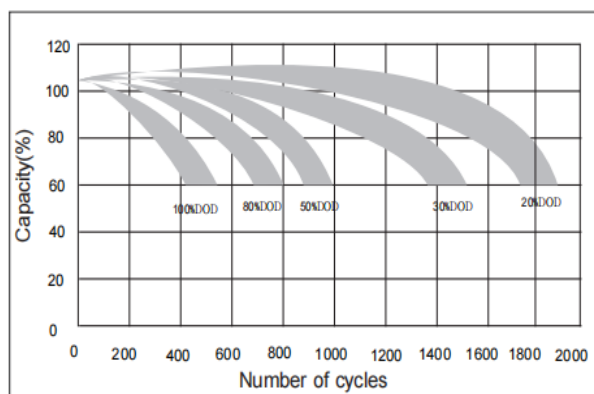
### Charging characteristic



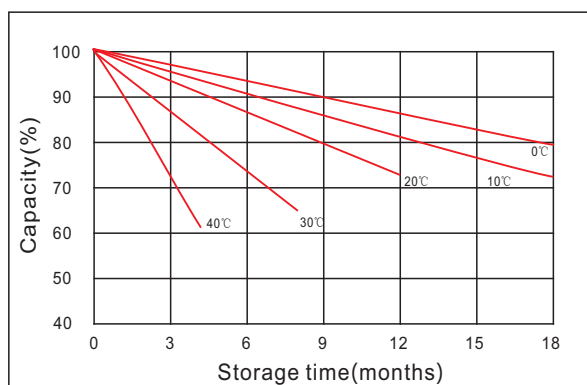
## The effect of temperature on capacity



## The effect of discharge depth on cycle life



## Curves of self-discharge



### Curves of open circuit voltage vs. capacity

