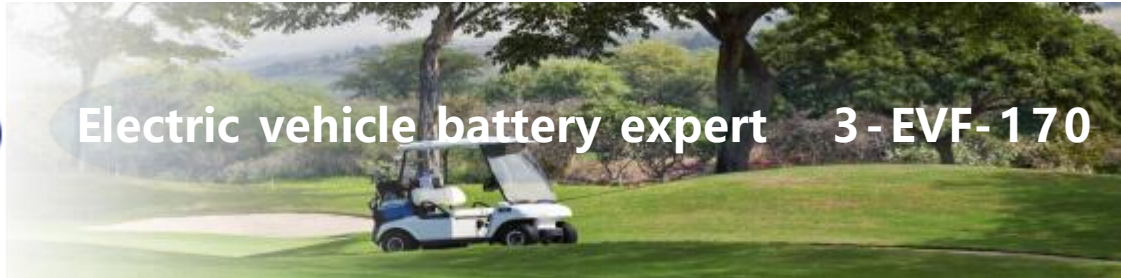




# Electric vehicle battery expert 3-EVF-170



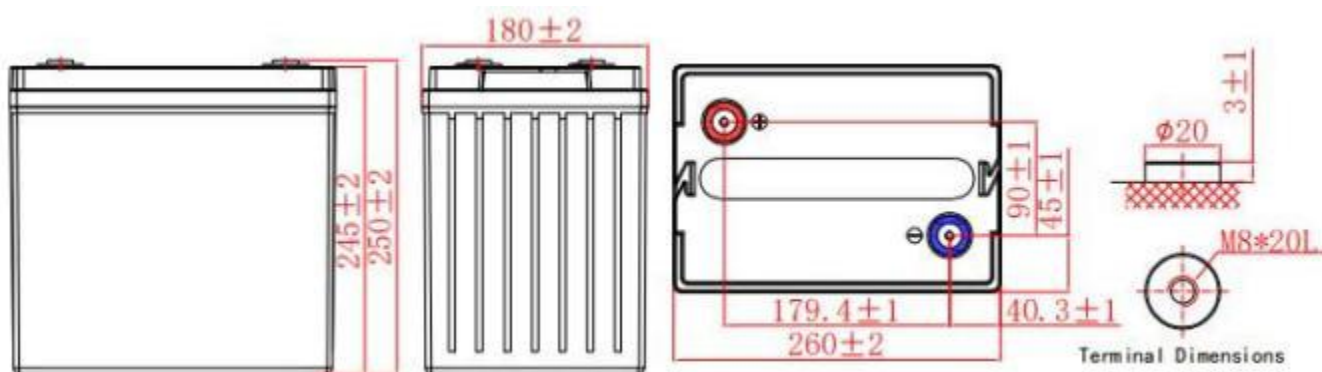
## General Features

- 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:260(L)×180(W) ×245(H)×250(TH)/(±3)

Unit: mm



## Specification

|                    |                                           |
|--------------------|-------------------------------------------|
| Nominal Voltage    | 6V                                        |
| Nominal Capacity   | 170Ah @3hour-rate to 1.75V per cell @25°C |
| Design life        | 5 years                                   |
| Terminal           | M8                                        |
| Approx. Weight     | Approx. 29.2k±3%(64.37lbs±3%)             |
| Container Material | ABS                                       |
| Self discharge     | 3% of capacity declined per month at 25°C |

## Rated Capacity

|                              |         |
|------------------------------|---------|
| 20Hour Rate (11.0A to 10.5V) | 220.0Ah |
| 5Hour Rate (38.0A to 10.5V)  | 190.0Ah |
| 3Hour Rate (56.7A to 10.5V)  | 170.0Ah |

## 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 | 25.5A         |
| Float Use:         | 6.75-6.90V@25 |
| Cycle Use :        | 7.20-7.50V@25 |

## Standards

Executive standard :GB/T32620-2016

## Applications

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

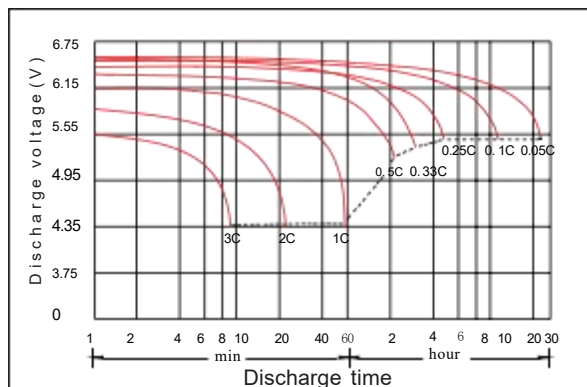
## Attain Certificate



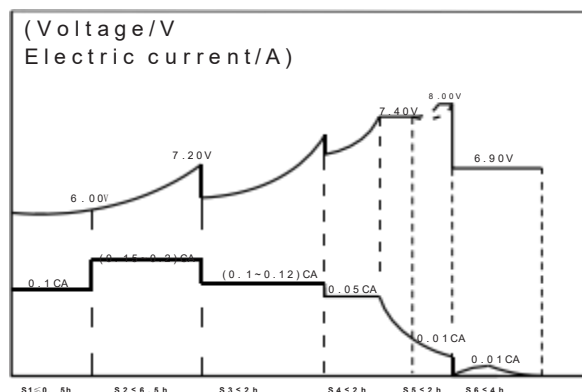
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.



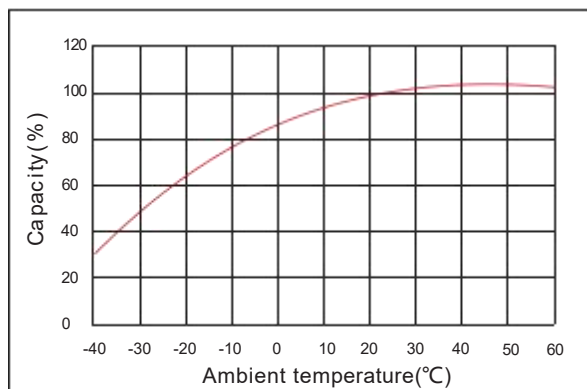
## Discharge characteristic



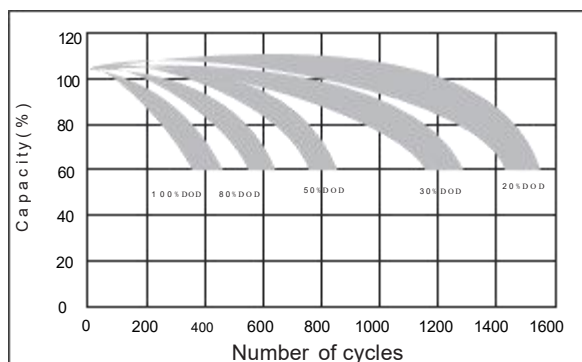
## Charging characteristic



## 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   | 256   | 145 | 84.4 | 58.8 | 39.2 | 24.4 | 20.6 | 11.3 |
| 1.65V   | 251   | 144 | 83.9 | 58.3 | 38.9 | 24.2 | 20.4 | 11.2 |
| 1.70V   | 246   | 143 | 83.2 | 57.4 | 38.5 | 24.0 | 20.2 | 11.1 |
| 1.75V   | 244   | 141 | 82.0 | 56.7 | 38.0 | 23.8 | 20.0 | 11.0 |
| 1.80V   | 233   | 137 | 80.5 | 56.5 | 37.1 | 23.8 | 19.8 | 10.9 |
| 1.85V   | 213   | 127 | 76.4 | 53.2 | 35.2 | 22.7 | 19.2 | 10.7 |

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

| FV/Time | 30min | 1h  | 2h  | 3h  | 5h   | 8h   | 10h  | 20h  |
|---------|-------|-----|-----|-----|------|------|------|------|
| 1.60V   | 462   | 275 | 159 | 112 | 74.4 | 47.5 | 39.6 | 22.1 |
| 1.65V   | 457   | 273 | 159 | 111 | 73.9 | 47.1 | 39.2 | 22.0 |
| 1.70V   | 457   | 271 | 158 | 110 | 73.5 | 46.9 | 38.7 | 21.9 |
| 1.75V   | 455   | 268 | 157 | 109 | 73.0 | 46.6 | 38.5 | 21.8 |
| 1.80V   | 443   | 266 | 157 | 109 | 72.1 | 46.2 | 38.1 | 21.7 |
| 1.85V   | 406   | 247 | 150 | 104 | 68.8 | 44.7 | 37.4 | 21.5 |